





























### Features

- · Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- · Built-in active PFC function
- · Class 2 power unit
- No load / Standby power consumption < 0.5W</li>
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- · Typical lifetime>50000 hours
- · 5 years warranty

### Applications

- LED street lighting
- LED architectural lighting
- · LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

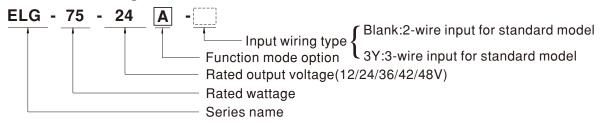
### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

### Description

ELG-75 series is a 75W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-75 operates from 100~305VAC and offers models with different rated voltage ranging between 12V and 48V. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -40° C ~ +85° C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. ELG-75 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

### Model Encoding



Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock

## 48~75W Constant Voltage + Constant Current LED Driver

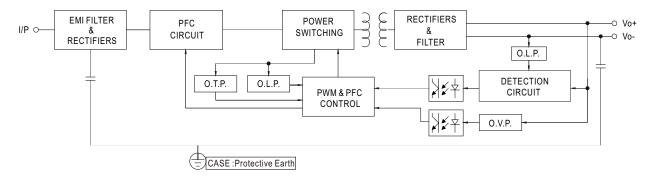
# ELG-75 series

MODEL		ELG-75-12	ELG-75-24	ELG-75-36	ELG-75-42	ELG-75-48		
	DC VOLTAGE	12V	24V	36V	42V	48V		
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18 ~ 36V	21 ~ 42V	24 ~ 48V		
	RATED CURRENT	5A	3.15A	2.1A	1.8A	1.6A		
		200VAC ~ 305VAC			111211			
		60W	75.6W	75.6W	75.6W	76.8W		
	RATED POWER Note.5	100VAC ~ 180VAC	10.011	10.011	70.011	10.011		
		48W	60W	60W	60W	60W		
	DIDDLE 9 NOIGE (	-	1					
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	250mVp-p	250mVp-p		
	VOLTAGE ADJ. RANGE		e only (via built-in potent					
OUTPUT		10.8 ~ 13.2V	21.6 ~ 26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V		
	CURRENT ADJ. RANGE	Adjustable for A/AB-Typ	, , , , ,					
		2.5 ~ 5A	1.57 ~ 3.15A	1.05 ~ 2.1A	0.9 ~ 1.8A	0.8 ~ 1.6A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±3.0%	±2.5%	±2.5%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	500ms, 100ms/115VAC,	230VAC					
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 1	15VAC(at full load)					
	VOLTACE DANCE Note 5	100 ~ 305VAC 142	~ 431VDC					
	VOLTAGE RANGE Note.5	(Please refer to "STATIC	CHARACTERISTIC" se	ction)				
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR	PF ≥ 0.97/115VAC, PF						
	TOWERTACIOR	(Please refer to "POW	ER FACTOR (PF) CHA	ARACTERISTIC" secti	on)			
	TOTAL HARMONIO DIOTORTION	THD< 20%(@load≥5	0%/115VC,230VAC;	@load≧75%/277VA0	C)			
	TOTAL HARMONIC DISTORTION	(Please refer to "TO"	TAL HARMONIC DIST	ORTION(THD)" sec	tion)			
NPUT	EFFICIENCY (Typ.)	86%	88%	89%	90%	90%		
	AC CURRENT	0.7A / 115VAC 0.45A	/ 230VAC 0.38A/277\	'AC	•	•		
	INRUSH CURRENT(Typ.)	COLD START 50A(twidt	h=350µs measured at 50	% Ipeak) at 230VAC; Pe	r NEMA 410			
	MAX. No. of PSUs on 16A							
	CIRCUIT BREAKER	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	NO LOAD / STANDBY	No load power consumption <0.5W for Blank / A / Dx / D2-Type						
	POWER CONSUMPTION	Standby power consumption <0.5W for B / AB / DA-Type						
		95 ~ 108%						
	OVER CURRENT	ช่ว ~ ≀บอ%  Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT		automatically after fault of		7704			
ROTECTION	OHORY OHOOTI	14 ~ 18V	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V		
	OVER VOLTAGE		ge, re-power on to recov		11 011	0. 02.		
	OVER TEMPERATURE		ge, re-power on to recov					
	WORKING TEMP.		ase refer to "OUTPUT L		" section)			
	MAX. CASE TEMP.	Tcase=+85°C	4301010110 0011 01 2	OND VS TEINI EIVITORE	. occion)			
		20 ~ 95% RH non-conde	neina					
NVIDONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% F						
ENVIRONMENT	,		МП					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)	1 1	l l V V 7				
	VIBRATION		1 cycle, period for 72min.			(NZO 04047 O 40 in december		
	SAFETY STANDARDS					/NZS 61347-2-13 independe 8/42A/42B/48A/48B only		
			1, GB19510.14; KC613			,, 12, 0, 12, 10, 0, 10, 0 only		
	DALI STANDARDS	Compliance to IEC6238	36-101,102,(207 by requ	lest) for DA Type only				
SAFETY &	WITHSTAND VOLTAGE	· ·	P-FG:2.0KVAC O/P-F	· · · · · · · ·				
EMC	ISOLATION RESISTANCE		G:100M Ohms / 500VDC					
					50%) · BS FN/FN61000-3-	-3; GB/T 17743, GB17625.1		
	EMC EMISSION	EAC TP TC 020; KC KN		0 1 0.000 0 (@.ouu	00707, 20 211121101000 0	0, 02, 11110, 021102011		
	EMC IMMUNITY	Compliance to BS EN/EI	N61000-4-2,3,4,5,6,8,11;	BS EN/EN61547, light i	ndustry level (surge immur	nity Line-Earth 6KV,		
	EMC IMMUNITY	Line-Line 4KV);EAC TP	TC 020; KC KN15, KN6	1547				
	MTBF	3451.7K hrs min. Telcor	dia SR-332 (Bellcore)	331.3Khrs min. MI	L-HDBK-217F (25°€)			
THERS	DIMENSION	180*63*35.5mm (L*W*F	1)					
	PACKING	0.8Kg;16pcs/13.4Kg/0.6	37CUFT					
NOTE	Please refer to "DRIVING ME     Ripple & noise are measured     Tolerance : includes set up to     De-rating may be needed und     Length of set up time is meas     The driver is considered as a     complete installation, the final     (as available on https://www.n	at 20MHz of bandwidth blerance, line regulation ar lerance, line regulation ar ler low input voltages. Plesured at first cold start. Tu component that will be of equipment manufacturer: neanwell.com//Upload/PD	8Kg;16pcs/13.4Kg/0.67CUFT  ntioned are measured at 230VAC input, rated current and 25°C of ambient temperature.					

- 9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
   10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
   11. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED\_EN.pdf
   12. For A/AB type need to consider build in using to comply with Type HL application.
   ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

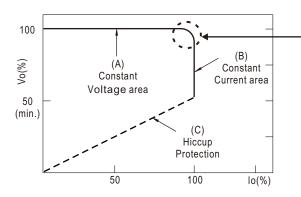
### ■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



### ■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

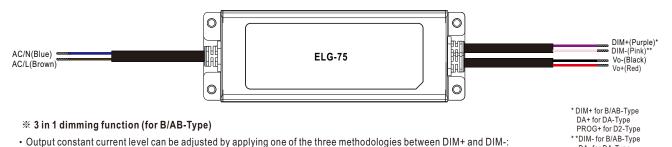
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

DA- for DA-Type PROG- for D2-Type

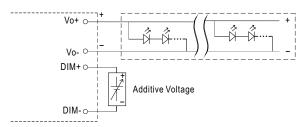






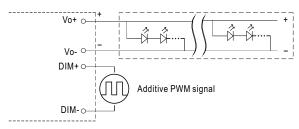
### **※** 3 in 1 dimming function (for B/AB-Type)

- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



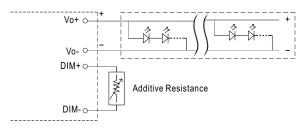
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

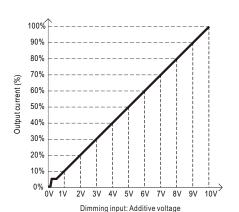


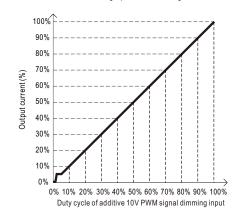
"DO NOT connect "DIM- to Vo-"

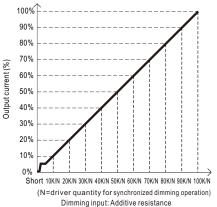
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"







Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

2. The output current could drop down to 0% when dimming input is about  $0k\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.

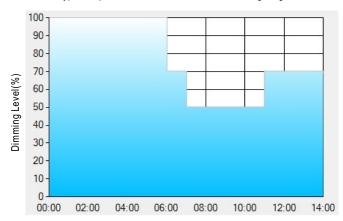
#### DALI Interface (primary side; for DA-Type)

- · Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 8% of output.

#### **X** Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex: O D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

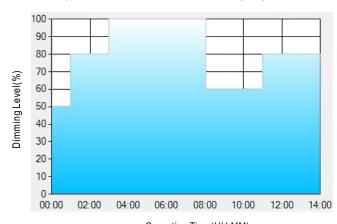
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
  - Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:
- [1] The power supply will switch to the constant current level at 100% starting from 6:00pm.
- [2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

  The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: 
O D02-Type: the profile recommended for street lighting



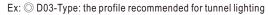
Set up for D02-Type in Smart timer dimming software program:

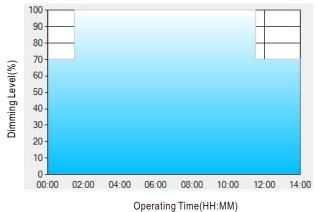
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

### Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
  Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
- [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

\*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

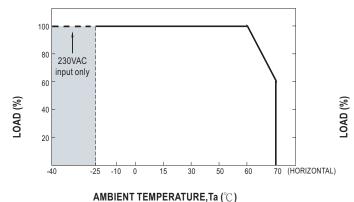
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

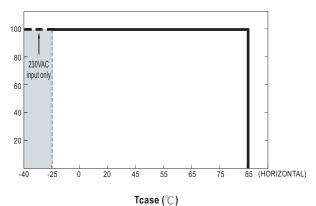
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

The constant current level remains till  $6:30\,\mathrm{am}$ , which is 14:00 after the power supply turns on.



## ■ OUTPUT LOAD vs TEMPERATURE(Note.9)



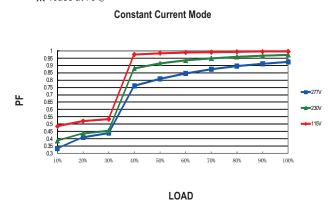


### **■ STATIC CHARACTERISTIC**

## 

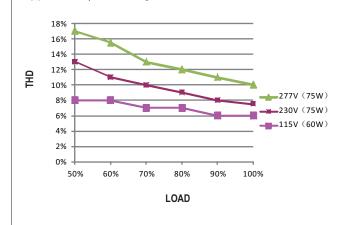
#### INFOT VOLIAGE (V) 00

### **■ POWER FACTOR (PF) CHARACTERISTIC**



## De-rating is needed under low input voltage.

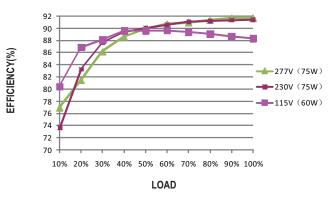
### ■ TOTAL HARMONIC DISTORTION (THD)



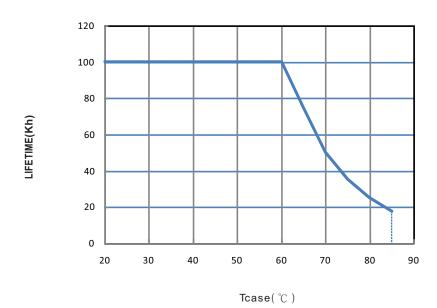
### **■** EFFICIENCY vs LOAD

 ${\rm ELG\text{-}75}$  series possess superior working efficiency that up to 90% can be reached in field applications.

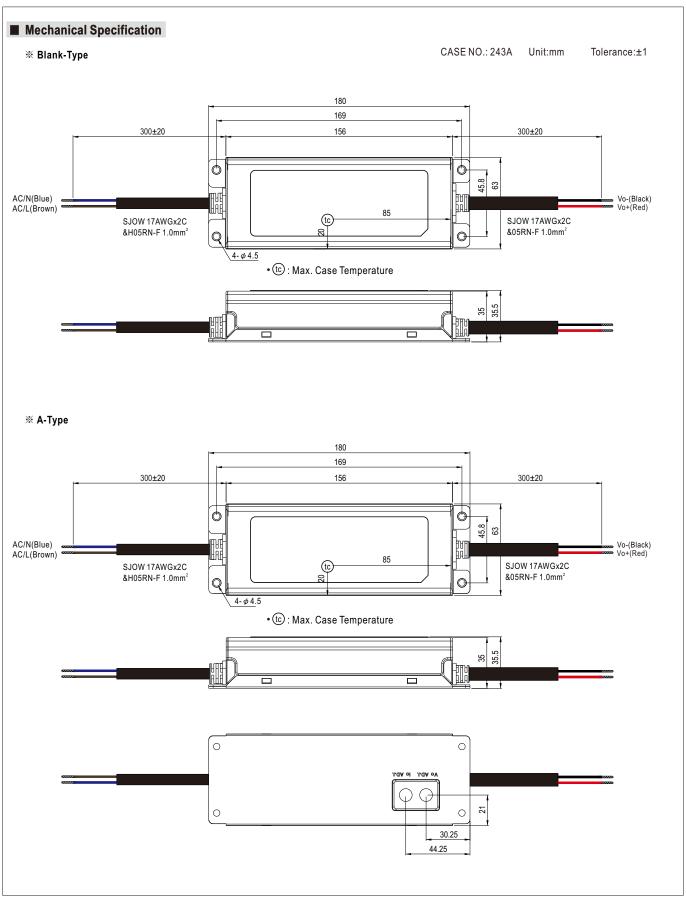
¾ 48V Model, Tcase at 75°C



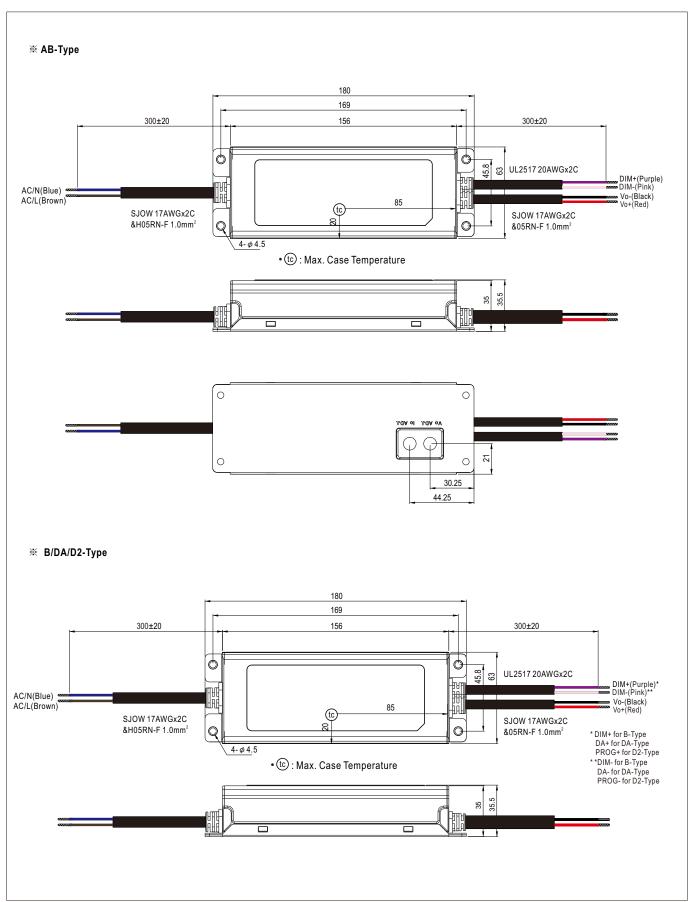
## ■ LIFE TIME



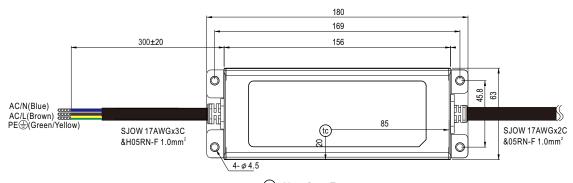
# ELG-75 series







### ※ 3Y Model (3-wire input)



- (tc) : Max. Case Temperature
- O Note1: Please connect the case to PE for the complete EMC deliverance and safety use.
- O Note2: Please contact MEAN WELL for input wiring option with PE.

### ■ Recommend Mounting Direction



### **■ INSTALLATION MANUAL**

Please refer to:http://www.meanwell.com/manual.html



























### Features

- · Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- · Built-in active PFC function
- · Class 2 power unit
- No load / Standby power consumption < 0.5W</li>
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- · 5 years warranty

### Applications

- LED street lighting
- · LED architectural lighting
- LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

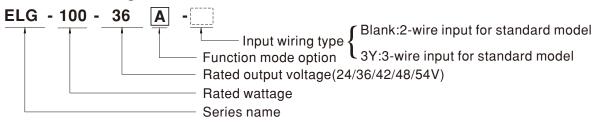
### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

## Description

ELG-100 series is a 100W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-100 operates from 100~360VAC and offers models with different rated voltage ranging between 24V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40 $^{\circ}$ C  $\sim$  +90 $^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. ELG-100 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

### Model Encoding



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock



#### **SPECIFICATION**

MODEL		ELG-100-24	ELG-100-36	ELG-100-42	ELG-100-48	ELG-100-54		
	DC VOLTAGE	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2	12 ~ 24V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	4.0A	2.66A	2.28A	2A	1.78A		
		200VAC ~ 305VAC	'					
		96W	95.76W	95.76W	96W	96.12W		
	RATED POWER	100VAC ~ 180VAC	1 2 2 1 2 1 2					
		70W	70W	70W	70W	70W		
	DIDDLE 9 NOIGE (				-	· ·		
	RIPPLE & NOISE (max.) Note.3	200mVp-p	250mVp-p	250mVp-p	300mVp-p	350mVp-p		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type	T .	tentiometer)				
OUTPUT		21.6 ~ 26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V	48.6 ~ 59.4V		
0011-01	CURRENT ADJ. RANGE	Adjustable for A/AB-Type	only (via the built-in po	tentiometer)				
	CORRENT ADJ. RANGE	2 ~ 4A	1.33 ~ 2.66A	1.14 ~ 2.28A	1 ~ 2A	0.89 ~ 1.78A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.5%	±2.5%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	1000ms, 80ms/115VAC	500ms, 100ms/23	0VAC				
	HOLD UP TIME (Typ.)	,	/230VAC					
	THE (Typ.)			ue,320VAC for 24Hrs; 3	60VΔC for 1Hr			
	VOLTAGE RANGE Note.5	(Please refer to "STATIC			OUVACIOI IIII			
	FREQUENCY RANGE	47 ~ 63Hz	011/11/10/12/11/01/10 0	000011)				
	FREQUENCT RANGE		0.0E/220\/A.C. DE > 0.	20/277\/AC@f.:II.laad				
	POWER FACTOR	PF ≥ 0.97/115VAC, PF ≥ (Please refer to "POWE						
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION			/230VAC; @load≧75%/27	7VAC)			
		(Please refer to "TOTAL						
INPUT	EFFICIENCY (Typ.)	88%	89%	90%	90%	91%		
	AC CURRENT	1.1A / 115VAC 0.6A / 230VAC 0.5A/277VAC						
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=850μs measured at 50% Ipeak) at 230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA/277VAC						
	NO LOAD / STANDDV							
	NO LOAD / STANDBY POWER CONSUMPTION	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type						
		95 ~ 108%						
	OVER CURRENT		receivers outersetically	ofter fault condition is remov	and .			
	CHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed  Hiccup mode, recovers automatically after fault condition is removed						
DOTECTION	SHORT CIRCUIT	, ,			= 4 any			
ROTECTION	OVER VOLTAGE	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V	62 ~ 72V		
		Shut down output voltage						
	OVER TEMPERATURE	Shut down output voltage	, , ,					
	WORKING TEMP.	,	ase refer to " OUTPUT I	OAD vs TEMPERATURE"	section)			
	MAX. CASE TEMP.	Tcase=+90°C						
NVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-conde	nsing					
INVINCINIVILINI	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% R	:H					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1	cycle, period for 72mir	. each along X, Y, Z axes				
	SAFETY STANDARDS	BS EN/EN62384; EAC T	PTC 004;BIS IS15885		6A/36B/42/42A/42ADA/42B	ZS 61347-2-13 independent, B/48/48B/54/54A/54ADA/54E		
	DALI STANDARDS	Compliance to IEC6238			αργισνου			
SAFETY &			, ,					
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/F						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG			NO() DO EN (EN )	ND / 17710 02 1777		
	EMC EMISSION	EAC TP TC 020; KC KN1	5,KN61547		9%); BS EN/EN61000-3-3;G			
	EMC IMMUNITY	Compliance to BS EN/EN EAC TP TC 020; KC KN		; BS EN/EN61547, light ind	ustry level (surge immunity	Line-Earth 6KV, Line-Line 4K		
	MTBF	2920.8K hrs min. Telcoro	lia SR-332 (Bellcore)	282.9Khrs min. MIL-	HDBK-217F (25°C)			
OTHERS	DIMENSION	199*63*35.5mm (L*W*H	)					
	PACKING	0.85kg; 16pcs/14.2kg/0.	72CUFT					
				and 25°C of ambient tempera				

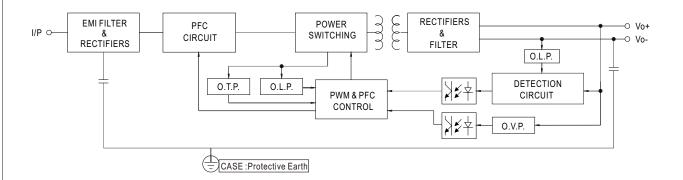
### NOTE

- 2. Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery.
- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor
- 4. Tolerance : includes set up tolerance, line regulation and load regulation.
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
- 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 80°C or less.
- 9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 11. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED\_EN.pdf
- 12. D2 models need to be programmed in the state of loading.
- 13. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

  14. For A/AB type need to consider build in using to comply with Type HL application.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

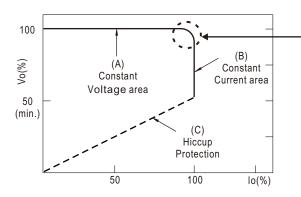
### ■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



### ■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

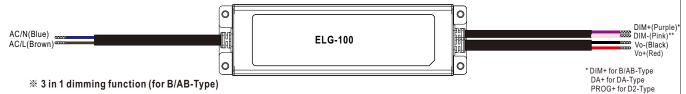


Typical output current normalized by rated current (%)

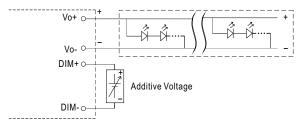
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

### **■ DIMMING OPERATION**

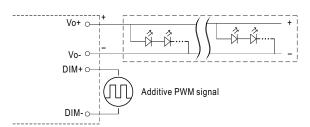


- **※** 3 in 1 dimming function (for B/AB-Type)
- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



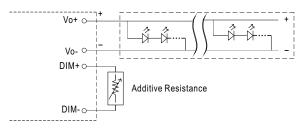
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

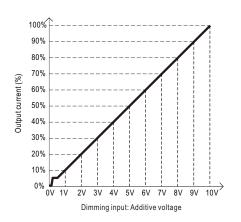


"DO NOT connect "DIM- to Vo-"

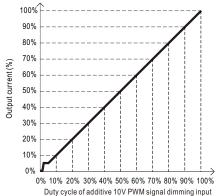
Applying additive resistance:

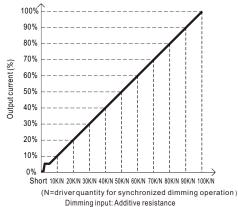


"DO NOT connect "DIM- to Vo-"



\*DIM- for B/AB-Type DA- for DA-Type PROG- for D2-Type





Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

2. The output current could drop down to 0% when dimming input is about  $0k\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.

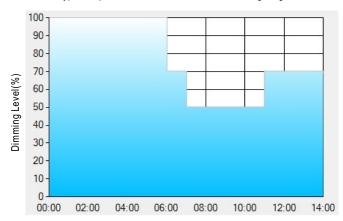
#### DALI Interface (primary side; for DA-Type)

- · Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 8% of output.

#### **X** Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex: O D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

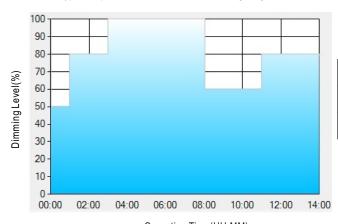
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
  - Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:
- [1] The power supply will switch to the constant current level at 100% starting from 6:00pm.
- [2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

  The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: 
O D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

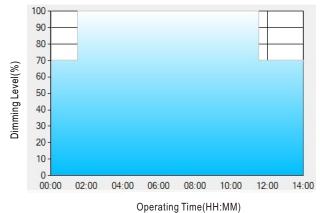
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

### Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
- Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
- [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3	
TIME**	01:30	11:00		
LEVEL**	70%	100%	70%	

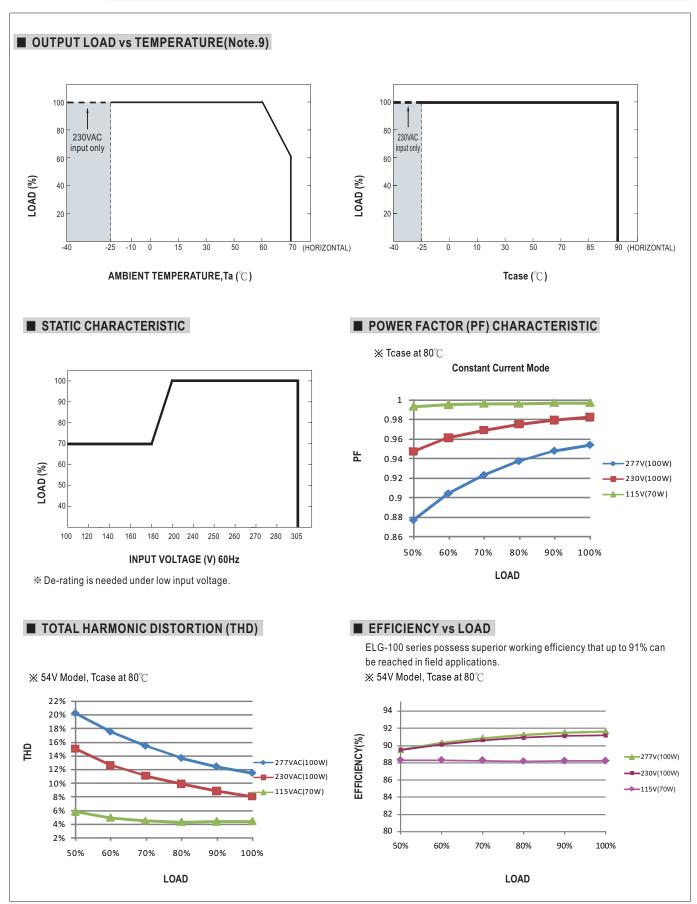
\*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

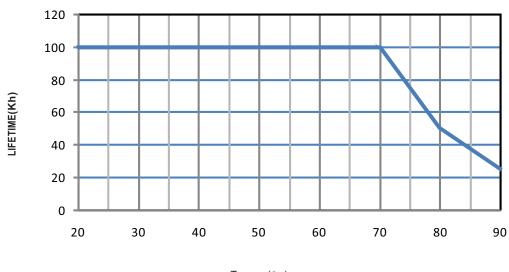
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.

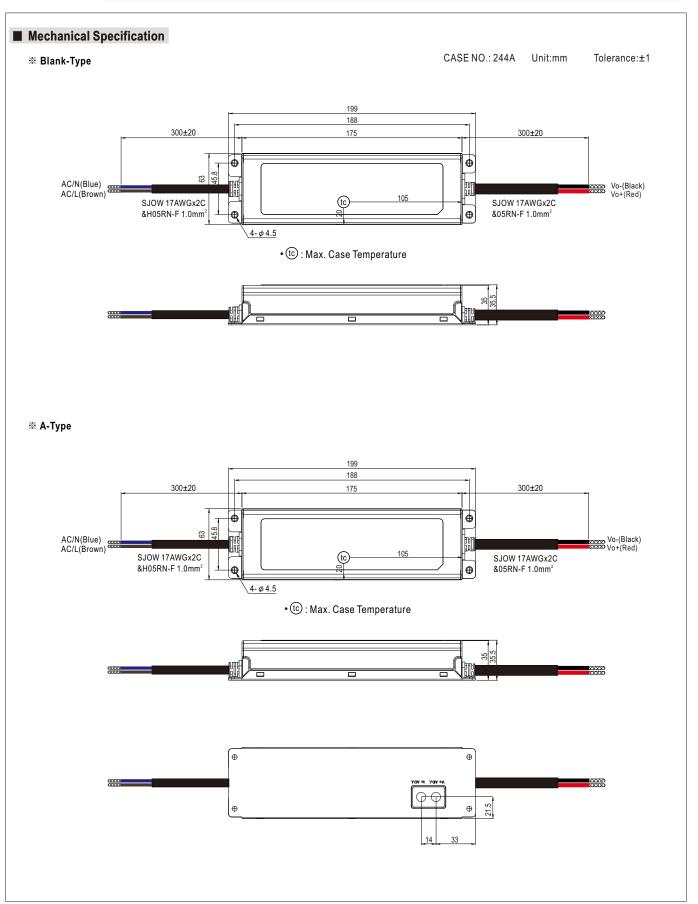




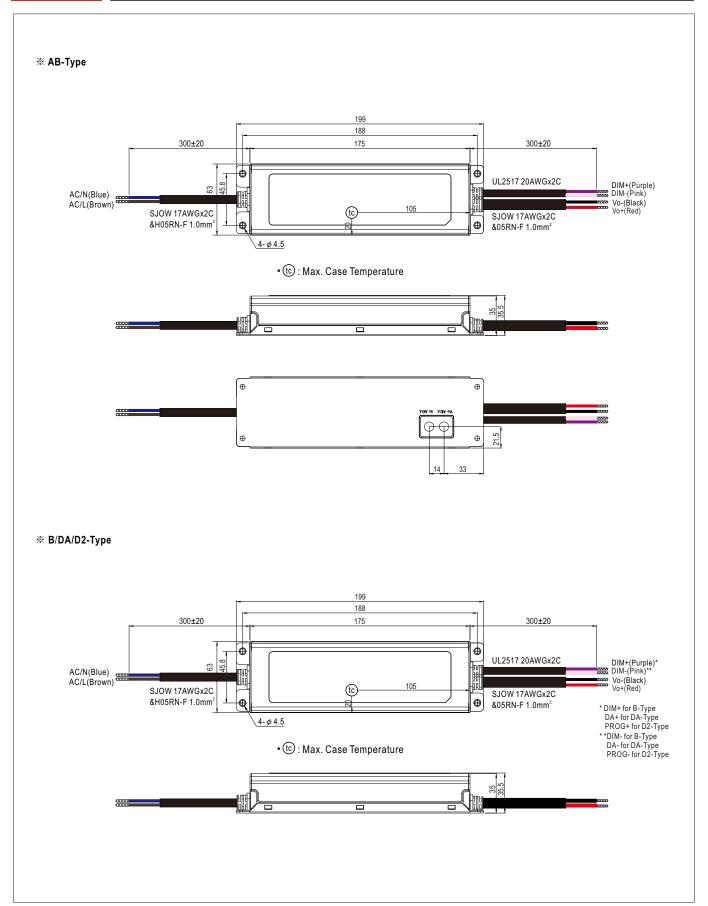
## ■ LIFE TIME



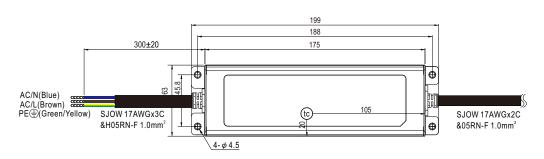








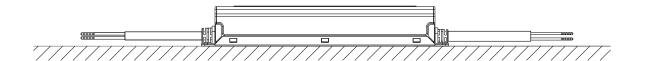
### ※ 3Y Model (3-wire input)



• (tc): Max. Case Temperature

- O Note 1: Please connect the case to PE for the complete EMC deliverance and safety use.
- O Note2: Please contact MEAN WELL for input wiring option with PE.

### ■ Recommend Mounting Direction



### **■ INSTALLATION MANUAL**

Please refer to:http://www.meanwell.com/manual.html































### Features

- · Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- · Built-in active PFC function
- No load / Standby power consumption < 0.5W</li>
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- · 5 years warranty

### Applications

- LED street lighting
- · LED architectural lighting
- LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

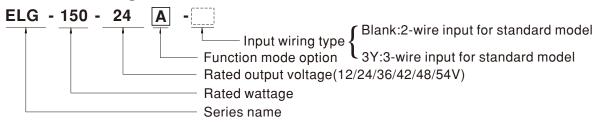
### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

## Description

ELG-150 series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-150 operates from 100~305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40 °C ~ +90 °C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. ELG-150 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

### Model Encoding



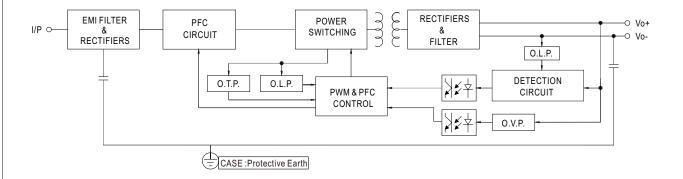
Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock



MODEL		ELG-150-12	ELG-150-24	ELG-150-36	ELG-150-42	ELG-150-48	ELG-150-54		
	DC VOLTAGE	12V	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	10A	6.25A	4.17A	3.57A	3.13A	2.8A		
		100VAC ~ 180VAC							
	RATED	84W	105W	105W	105W	105W	105W		
	POWER	200VAC ~ 305VAC	_						
		120W	150W	150.1W	150W	150.2W	151.2W		
	RIPPLE & NOISE (max.) Note.3	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
		Adjustable for A/AB	-Type only (via the bu	uilt-in potentiometer)	<u>'</u>				
CUITRUIT	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V							
DUTPUT		Adjustable for A/AB-	-Type only (via the bu	ilt-in potentiometer)			<u> </u>		
	CURRENT ADJ. RANGE	5 ~ 10A	3.2 ~ 6.25A	2.1 ~ 4.17A	1.8 ~ 3.57A	1.56 ~ 3.13A	1.4 ~ 2.8A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±3.0%	±2.5%	±2.5%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	1600ms, 80ms/115\	/AC 500ms, 100	ms/230VAC					
	HOLD UP TIME (Typ.)	10ms/115VAC, 230\	/AC						
		,	142 ~ 431VDC						
	VOLTAGE RANGE Note.5		ATIC CHARACTERIS	STIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz							
			PF≥0.95/230\/∆C.P	F≧0.92/277VAC@full	load				
	POWER FACTOR			CHARACTERISTIC" se					
		,	. ,	l≧60%/230VAC; @loa					
	TOTAL HARMONIC DISTORTION			STORTION(THD)" se					
NPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	90%	90%	91%		
	AC CURRENT		1	7A/277VAC	3070	3070	3170		
	INRUSH CURRENT(Typ.)			red at 50% Ipeak) at 2	20\/A.C. Dor NEMA 410	^			
		COLD START USA(	twidtii–330μs iiieasu	reu at 50 % ipeak) at 2	30VAC; FEI NLIMA 4 II	0			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.75mA/277VAC							
	NO LOAD / STANDBY	No load nower cons	umption <0.5W for B	lank / A / Dx / D2-Type					
	POWER CONSUMPTION		sumption <0.5W for E						
		95 ~ 108%		77.137.27.1,70					
	OVER CURRENT		niting recovers autor	natically after fault cor	ndition is removed				
	SHORT CIRCUIT			er fault condition is rer					
PROTECTION	SHOKT CIRCUIT	14 ~ 18V	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V	59 ~ 68V		
	OVER VOLTAGE		roltage, re-power on	_	71 071	34 02 V	00 001		
	OVER TEMPERATURE	-	oltage, re-power on						
	WORKING TEMP.			TPUT LOAD vs TEMP	FRATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C	(i icase reier to oo	TI OT LOAD VS TEINI	LIVITOIL SCOROLL				
		20 ~ 95% RH non-co	ondonsing						
ENI//DONMENT	WORKING HUMIDITY								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 9							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C	-,						
	VIBRATION			r 72min. each along X		ENIENIA O DIES	0.40		
	CACETY CTANDARDO			i-12;IEC/BS EN/EN/AS i5(for 12/12A/12B/12D/	,				
	SAFETY STANDARDS	· '	,	1P65 or IP67; KC6134			~;+0U;04;04A;04B 0		
SAFETY &	DALI STANDARDS			by request) for DAT					
EMC	WITHSTAND VOLTAGE		I/P-FG:2.0KVAC		, , ,				
	ISOLATION RESISTANCE			500VDC / 25°C / 70%	RH				
	IOSEATION REGISTANCE			EN61000-3-2 Class C		N/FN61000-3 3- CP/7	T 17743 CR1762F 1		
	EMC EMISSION	EAC TP TC 020; KC		_140 1000-0-2 Class C	(⊌i∪au <u>=</u> ∪∪ /0) , D3 E	-14/LINO 1000-3-3, GB/	1 11170,0011020.1		
			· · · · · · · · · · · · · · · · · · ·	5,6,8,11; BS EN/EN61	547, light industry leve	el (surge immunity Line	e-Earth 6KV,		
	EMC IMMUNITY		TP TC 020; KC KN			-			
	MTBF	2661.6K hrs min.	Telcordia SR-332 (B	sellcore) ;313.7K hrs m	nin. MIL-HDBK-217	F (25°C)			
OTHERS	DIMENSION	219*63*35.5mm (L	*W*H)						
	PACKING	0.95Kg; 16pcs/16.0	kg/0.77CUFT						
NOTE	All parameters NOT specially r     Please refer to "DRIVING ME"     Ripple & noise are measured and tolerance: includes set up tole     De-rating may be needed under the driver is considered as a complete installation, the final tolerance.	THODS OF LED MOD at 20MHz of bandwidt erance, line regulation er low input voltages. ured at first cold start. component that will be equipment manufactur	DULE". For DA-Type, h by using a 12" twist and load regulation. Please refer to "STAT Turning ON/OFF the operated in combina	Constant Current region ed pair-wire terminated IC CHARACTERISTIC driver may lead to incretion with final equipmen MC Directive on the coen.pdf)	n is 60%~100% of max with a 0.1uf & 47uf pa S" sections for details, ease of the set up time nt. Since EMC perform mplete installation agai	ximum voltage under ra arallel capacitor. ance will be affected by	/ the		

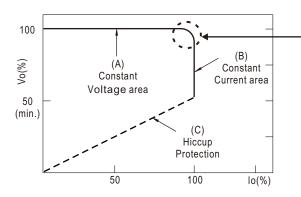
### ■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



### ■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



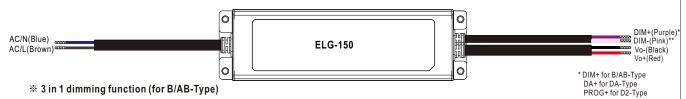
Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

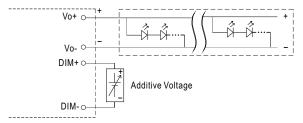
Should there be any compatibility issues, please contact MEAN WELL.

© This characteristic applies to Blank/A/B/AB/DX/D2-Type, For DA-Type, the Constant Current area is 60%∼100% Vo.

### **■ DIMMING OPERATION**

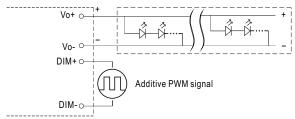


- **※** 3 in 1 dimming function (for B/AB-Type)
- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



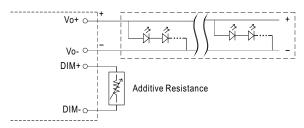
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

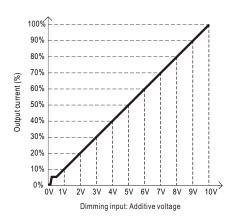


"DO NOT connect "DIM- to Vo-"

Applying additive resistance:

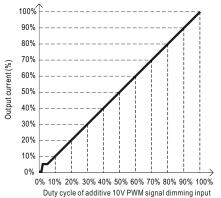


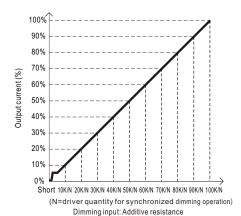
"DO NOT connect "DIM- to Vo-"



\*DIM- for B/AB-Type

DA- for DA-Type PROG- for D2-Type





Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

2. The output current could drop down to 0% when dimming input is about  $0k\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.

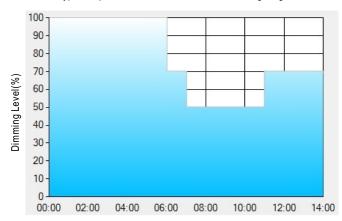
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- · Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 8% of output.

#### **X** Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex: O D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

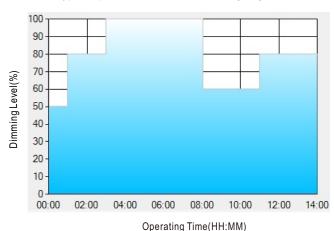
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

  Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:
- [1] The power supply will switch to the constant current level at 100% starting from 6:00pm.
- [2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: 
O D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

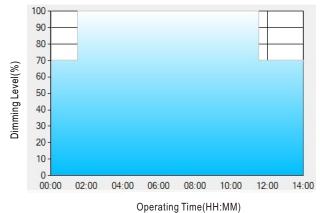
### \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

- ^^: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

  Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
- [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

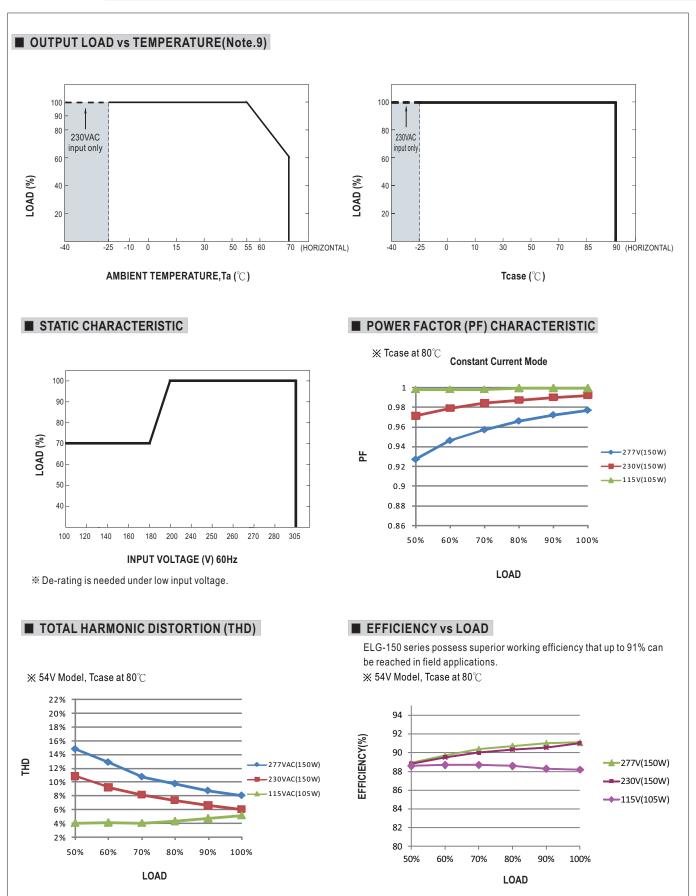
\*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

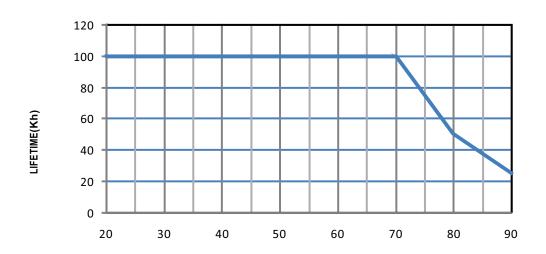
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



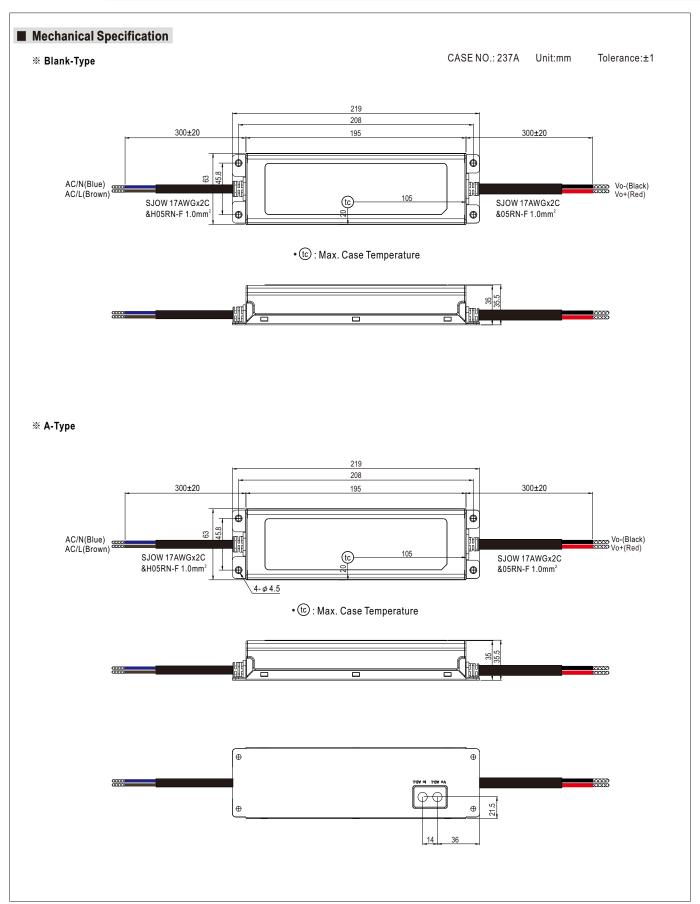


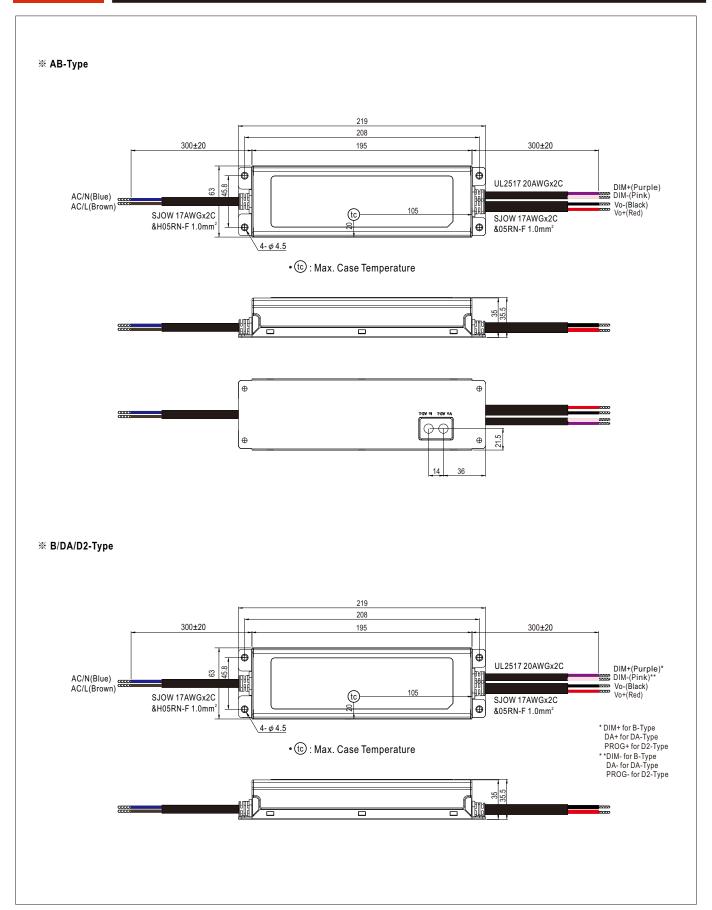
### **■** LIFE TIME



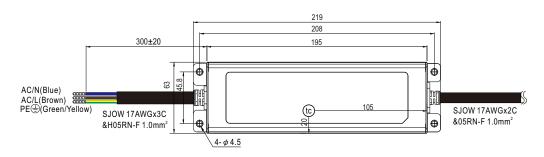
Tcase (°℃)







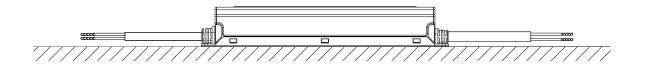
### ※ 3Y Model (3-wire input)



• tc : Max. Case Temperature

- $\ensuremath{\mathbb{O}}$  Note1: Please connect the case to PE for the complete EMC deliverance and safety use.
- $\ \, \bigcirc$  Note2: Please contact MEAN WELL for input wiring option with PE.

### ■ Recommend Mounting Direction



### **■ INSTALLATION MANUAL**

Please refer to:http://www.meanwell.com/manual.html























### Features

- Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- Built-in active PFC function
- No load / Standby power consumption < 0.5W</li>
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- · 5 years warranty

### Applications

- · LED street lighting
- · LED architectural lighting
- LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

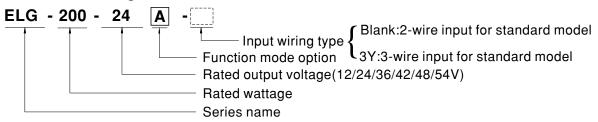
### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

## Description

ELG-200 series is a 200W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-200 operates from 100 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for -40 °C ~ +90 °C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. ELG-200 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

### Model Encoding



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock

#### **SPECIFICATION**

		ELG-200-12	ELG-200-24	ELG-200-36	ELG-200-42	ELG-200-48	ELG-200-54	
	DC VOLTAGE	12V	24V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	16A	8.4A	5.55A	4.76A	4.16A	3.72A	
		200VAC ~ 305VAC						
	RATED POWER	192W 201.6W 199.8W 199.9W 199.68W 200.88W						
		100VAC ~ 180VAC						
		144W	150W	149.76W	149.94W	149.76W	150.12W	
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
	INTIT EL & NOIDE (IIIAX.) Note.3				2001117 P	200111V p	0007	
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)  11.2 ~ 12.8V						
UTPUT		11.2 ~ 12.8V	22.4 ~ 25.6V	1	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V	
	CURRENT ADJ. RANGE		-Type only (via built-in	<del>`</del>	1	1	1	
		8 ~ 16A	4.2 ~ 8.4A	2.78 ~ 5.55A	2.38 ~ 4.76A	2.08 ~ 4.16A	1.86 ~ 3.72A	
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6	500ms, 100ms/230\	/AC, 1000ms, 100ms	/115VAC				
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC						
		100 ~ 305VAC	142 ~ 431VDC					
	VOLTAGE RANGE Note.5	2.5 (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
			PF≧0.95/230VAC, PF	≥ 0.92/277VAC@full I	nad			
	POWER FACTOR							
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧50%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
NPUT	EFFICIENCY (Turn )	-				020/	020/	
IPUI	EFFICIENCY (Typ.)	90%	92%	92%	92.5%	93%	93%	
	AC CURRENT			277VAC				
	INRUSH CURRENT(Typ.)	COLD START 60A(	twidth=510µs measure	ed at 50% lpeak) at 23	0VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC						
	CIRCUIT BREAKER	4 units (circuit breaker of type b) / 6 units (circuit breaker of type c) at 250VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	NO LOAD / STANDBY	No load power cons	umption <0.5W for Bla	ank / A / Dx / D-Type				
	POWER CONSUMPTION Note.7 Standby power consumption <0.5W for B / AB / DA-Type							
		95 ~ 108%						
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT		ers automatically afte					
RUTECTION	OHORT OHOOTT	13.5 ~ 18V	27 ~ 34V	42 ~ 49V	47 ~ 54V	54 ~ 63V	60 ~ 67V	
PROTECTION		13.3 - 10 V	21 - 34 V		47 - 34 V	34~03V	00 - 07 V	
NO I LO I IUN	OVER VOLTAGE	Chut down output	oltago ro nowar an t	o rocovor			<u> </u>	
NO ILU IIUN			oltage, re-power on t					
WILCHUM	OVER TEMPERATURE	Shut down output v	oltage, re-power on t	o recover				
TOTEUTION	OVER TEMPERATURE WORKING TEMP.	Shut down output v Tcase=-40 ~ +90°C		o recover	ERATURE" section)			
NO LECTION	OVER TEMPERATURE	Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C	oltage, re-power on t (Please refer to " OUT	o recover	ERATURE" section)			
	OVER TEMPERATURE WORKING TEMP.	Shut down output v Tcase=-40 ~ +90°C	oltage, re-power on t (Please refer to " OUT	o recover	ERATURE" section)			
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP.	Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C	oltage, re-power on t (Please refer to " OUT ondensing	o recover	ERATURE" section)			
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c	oltage, re-power on t (Please refer to " OUT ondensing 5% RH	o recover	ERATURE" section)			
NVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Shut down output v Tcase=-40 $^{\circ}$ +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ C 20 $^{\circ}$ 95% RH non-c -40 $^{\circ}$ +90 $^{\circ}$ C, 10 $^{\circ}$ 9 $\pm 0.03\%$ /° C (0 $^{\circ}$ 50%	oltage, re-power on t (Please refer to " OUT ondensing 5% RH	o recover PUT LOAD vs TEMP(				
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Shut down output v Tcase=-40 $^{\circ}$ +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ 20 $^{\circ}$ 95% RH non-c -40 $^{\circ}$ +90 $^{\circ}$ , 10 $^{\circ}$ 9 $^{\circ}$ 0, 03%/ $^{\circ}$ (0 $^{\circ}$ 50 $^{\circ}$ 10 $^{\circ}$ 500Hz, 5G 12r	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for	o recover PUT LOAD vs TEMPE 72min. each along X,	Y, Z axes	EN/EN/AS/NZS 6134	7-2-13 independent	
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Shut down output v Tcase=- $40 \sim +90^{\circ}$ C Tcase=+ $90^{\circ}$ C 20 ~ 95% RH non-c - $40 \sim +90^{\circ}$ C, 10 ~ 9 $\pm 0.03\%$ /°C (0 ~ $50^{\circ}$ C 10 ~ $500$ Hz, 5G 12r UL8750(type"HL"), $900$	oltage, re-power on to (Please refer to " OUT condensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13	o recover PUT LOAD vs TEMPE 72min. each along X, -12;IEC/BS EN/EN/AS	Y, Z axes /NZS 61347-1, IEC/BS	EN/EN/AS/NZS 61347 A/36/36A/36B/42A/42E	•	
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Shut down output v Tcase=-40 $\sim$ +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ C 20 $\sim$ 95% RH non-c -40 $\sim$ +90 $^{\circ}$ C, 10 $\sim$ 9 $\pm$ 0.03%/ $^{\circ}$ C (0 $\sim$ 50 $^{\circ}$ C 10 $\sim$ 500Hz, 5G 12r UL8750(type"HL"), 0 BS EN/EN62384; E.	oltage, re-power on to (Please refer to " OUT condensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13	o recover PUT LOAD vs TEMPt 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/	Y, Z axes /NZS 61347-1, IEC/BS /2DA/24/24A/24B/24D		•	
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Shut down output v Tcase= $+40 \sim +90 ^{\circ}$ C Tcase= $+90 ^{\circ}$ C $= 20 \sim 95 ^{\circ}$ RH non-c $= -40 \sim +90 ^{\circ}$ C, $= 10 \sim 90 ^{\circ}$ C,	oltage, re-power on to (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1	o recover PUT LOAD vs TEMP( 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/-67;KC61347-1,KC613	Y, Z axes /NZS 61347-1, IEC/BS 2DA/24/24A/24B/24D 47-2-13 approved		•	
IVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Shut down output v Tcase= $+40 \sim +90 ^{\circ}$ C Tcase= $+90 ^{\circ}$ C $= 20 \sim 95 ^{\circ}$ RH non-c $= -40 \sim +90 ^{\circ}$ C, $= 10 \sim 90 ^{\circ}$ C,	oltage, re-power on to (Please refer to " OUT condensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 3B19510.1; IP65 or IP	o recover PUT LOAD vs TEMPI 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/ 67;KC61347-1,KC613 by request) for DA Ty	Y, Z axes /NZS 61347-1, IEC/BS 2DA/24/24A/24B/24D 47-2-13 approved		•	
AVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	Shut down output v Tcase=-40 ~ +90 ℃ Tcase=+90 ℃ 20 ~ 95% RH non-c -40 ~ +90 ℃, 10 ~ 9 ±0.03%/ ℂ (0 ~ 50 % 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; E, only); GB19510.14, Compliance to IEC I/P-O/P:3.75KVAC	oltage, re-power on to (Please refer to "OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 3B19510.1; IP65 or IP 62386-101,102,(207 I/P-FG:2.0KVAC	o recover TPUT LOAD vs TEMPI  72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/ 67;KC61347-1,KC613 by request) for DA Ty O/P-FG:1.5KVAC	Y, Z axes /NZS 61347-1, IEC/BS /2DA/24/24A/24B/24D 47-2-13 approved /pe only		•	
AVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS	Shut down output v Tcase= $+40 \sim +90 ^{\circ}$ C Tcase= $+90 ^{\circ}$ C $20 \sim 95 ^{\circ}$ RH non-c $-40 \sim +90 ^{\circ}$ C, $10 \sim 9$ $\pm 0.03 ^{\prime}$ C $(0 \sim 50 ^{\circ}$ C $10 \sim 500 ^{\circ}$ Hz, 5G 12r UL8750(type"HL"), BS EN/EN62384; E. only); GB19510.14, Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/	oltage, re-power on to (Please refer to "OUT ondensing 55% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 3B19510.1; IP65 or IP 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5	o recover TPUT LOAD vs TEMPI  72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA Ty O/P-FG:1.5KVAC	Y, Z axes /NZS 61347-1, IEC/BS I2DA/24/24A/24B/24D 47-2-13 approved rpe only	A/36/36A/36B/42A/42E	8/48/48A/48B/54A/5	
AFETY &	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	Shut down output v Tcase= $+40 \sim +90 ^{\circ}$ C Tcase= $+90 ^{\circ}$ C $20 \sim 95 ^{\circ}$ RH non-c $-40 \sim +90 ^{\circ}$ C, $10 \sim 9$ $\pm 0.03 ^{\prime}$ C $(0 \sim 50 ^{\circ}$ C $10 \sim 500 ^{\circ}$ Hz, 5G 12r UL8750(type"HL"), BS EN/EN62384; E. only); GB19510.14, Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/	oltage, re-power on to (Please refer to "OUT ondensing 55% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 BB19510.1; IP65 or IP62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 IN/EN55015,BS EN/E	o recover TPUT LOAD vs TEMPI  72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA Ty O/P-FG:1.5KVAC	Y, Z axes /NZS 61347-1, IEC/BS I2DA/24/24A/24B/24D 47-2-13 approved rpe only		8/48/48A/48B/54A/5	
AFETY &	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Shut down output v Tcase=+40 ~ +90 ℃ Tcase=+90 ℃ 20 ~ 95% RH non-c -40 ~ +90 ℃, 10 ~ 9 ±0.03%/ ℂ (0 ~ 50 % 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; E, only); GB19510.14, Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/C Compliance to BS EAC TP TC 020; KC	oltage, re-power on to (Please refer to "OUT ondensing 55% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 BB19510.1; IP65 or IP62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E	o recover TPUT LOAD vs TEMPI  72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/ 67;KC61347-1,KC613 by request) for DA Ty  O/P-FG:1.5KVAC  00VDC / 25°C / 70% F N61000-3-2 Class C (	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D 47-2-13 approved rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E	17743,GB17625.1;	
AFETY &	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Shut down output v Tcase=+40 ~ +90 ℃ Tcase=+90 ℃ 20 ~ 95% RH non-c -40 ~ +90 ℃, 10 ~ 9 ±0.03%/ ℂ (0 ~ 50 % 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; E, only); GB19510.14, Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/C Compliance to BS EAC TP TC 020; KC Compliance to BS EAC TP TC 020; KC	oltage, re-power on to (Please refer to "OUT ondensing 55% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 BB19510.1; IP65 or IP62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E	o recover TPUT LOAD vs TEMPI  72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/ 67;KC61347-1,KC613 by request) for DA Ty  0/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C ( ,6,8,11; BS EN/EN615	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D 47-2-13 approved rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E	17743,GB17625.1;	
AFETY &	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Shut down output v Tcase=+40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50°d 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; E. only); GB19510.14, (Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/C Compliance to BS EAC TP TC 020; KC Compliance to BS EIne-Line 4KV); EAC	oltage, re-power on to (Please refer to "OUT ondensing 55% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 BB19510.1; IP65 or IP 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E KN15,KN61547 N/EN61000-4-2,3,4,5 TP TC 020; KC KN15	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA Ty O/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C ( .6,8,11; BS EN/EN615 5,KN61547	Y, Z axes //NZS 61347-1, IEC/BS /2DA/24/24A/24B/24D 47-2-13 approved rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E  I/ EN61000-3-3;GB/T	17743,GB17625.1;	
NVIRONMENT  AFETY &	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Shut down output v Tcase=+40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50°d 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; E. only); GB19510.14, Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/Compliance to BS EAC TP TC 020; KC Compliance to BS E Line-Line 4KV);EAC 2391.4K hrs min.	oltage, re-power on to (Please refer to "OUT ondensing 55% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 BB19510.1; IP65 or IP62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E KN15,KN61547 N/EN61000-4-2,3,4,5 TP TC 020; KC KN15 Telcordia SR-332 (Be	o recover TPUT LOAD vs TEMPI  72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/ 67;KC61347-1,KC613 by request) for DA Ty  0/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C ( ,6,8,11; BS EN/EN615	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D 47-2-13 approved rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E  I/ EN61000-3-3;GB/T	17743,GB17625.1;	
AVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Shut down output v Tcase=+40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50°d 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; E. only); GB19510.14, (Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/C Compliance to BS EAC TP TC 020; KC Compliance to BS EIne-Line 4KV); EAC	oltage, re-power on to (Please refer to "OUT ondensing 55% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 BB19510.1; IP65 or IP 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E KN15,KN61547 N/EN61000-4-2,3,4,5 TP TC 020; KC KN15 Telcordia SR-332 (BerW*H)	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA Ty O/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C ( .6,8,11; BS EN/EN615 5,KN61547	Y, Z axes //NZS 61347-1, IEC/BS /2DA/24/24A/24B/24D 47-2-13 approved rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E  I/ EN61000-3-3;GB/T	1/48/48A/48B/54A/5	

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor.
   Tolerance : includes set up tolerance, line regulation and load regulation.
   De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
   Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
   No load/standby power consumption is specified for 230VAC input.
   The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

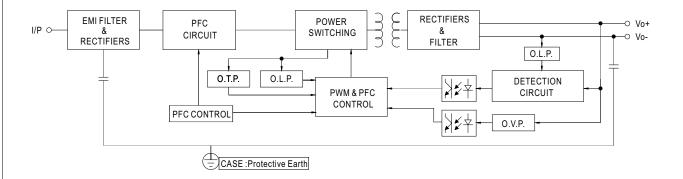
   (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
   This series meets the typical life expectancy of >50,000 hours of operation when Toase, particularly (to) point (or TMP, per DLC), is about 70°C or less.
   Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
   The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
   For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED\_EN.pdf
   BIS IS15885(for 12/12A/12B/12DA/24/24A/24B/24DA/36/36A/36B/42A/42B/48/48A/48B/54A/54B).
   To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently

- 14. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

  15. For A/AB type need to consider build in using to comply with Type HL application.
- \* Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

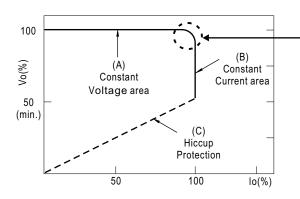
### ■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



### ■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

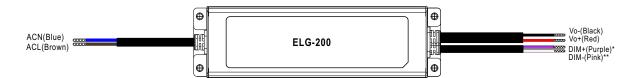


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

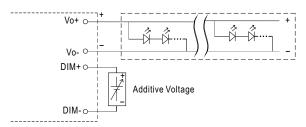
Should there be any compatibility issues, please contact MEAN WELL.

#### **■ DIMMING OPERATION**



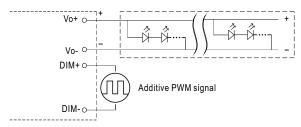
#### **※** 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
   0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



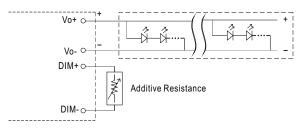
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



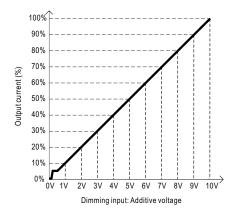
"DO NOT connect "DIM- to Vo-"

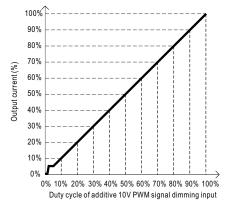
Applying additive resistance:

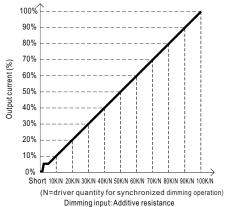


"DO NOT connect "DIM- to Vo-"









Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



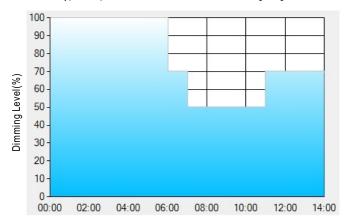
#### DALI Interface (primary side; for DA-Type)

- · Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 8% of output.

#### **X** Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex: O D01-Type: the profile recommended for residential lighting



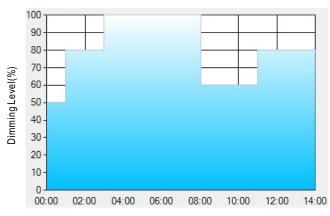
Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
  - $\textbf{Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance: \textbf{Application adopts D01-Type} and \textbf{Application adopts D01-Type}. The transfer of the power supply at 6:00pm, for instance: \textbf{Application adopts D01-Type}, \textbf{Application adopts D01-Type}. The transfer of the$
- [1] The power supply will switch to the constant current level at 100% starting from 6:00pm.
- [2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: O D02-Type: the profile recommended for street lighting



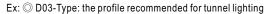
Set up for D02-Type in Smart timer dimming software program:

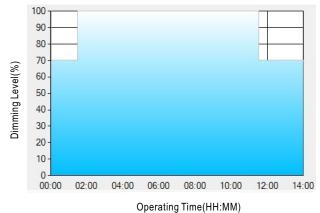
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

#### Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
- Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
- [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

\*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

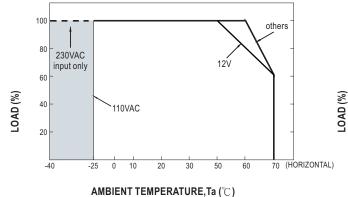
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



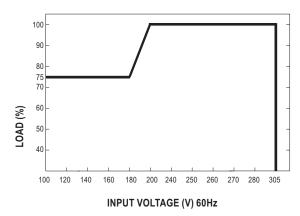
#### ■ OUTPUT LOAD vs TEMPERATURE(Note.10)



 $\bigcirc$  If ELG-200 operates in Constant Current mode with the rated current, the maximum workable Ta is 50  $^{\circ}\mathrm{C}$  for 12V-model whereas 60  $^{\circ}\mathrm{C}$  for other models.

# 100 80 230VAC 60 40 -25 0 20 45 55 65 75 90 (HORIZONTAL) Tcase (°C)

#### ■ STATIC CHARACTERISTIC

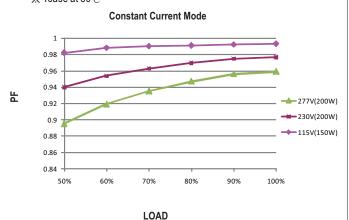


※ De-rating is needed under low input voltage.

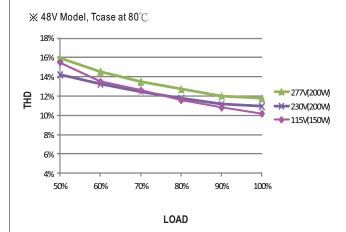
#### ■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 80°

C

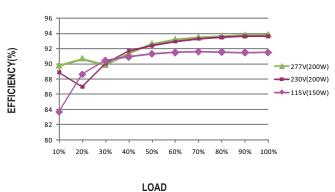


#### ■ TOTAL HARMONIC DISTORTION (THD)

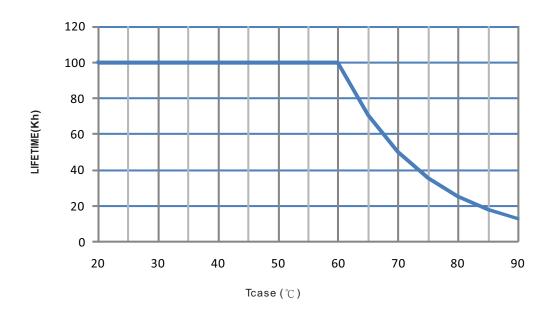


#### **■** EFFICIENCY vs LOAD

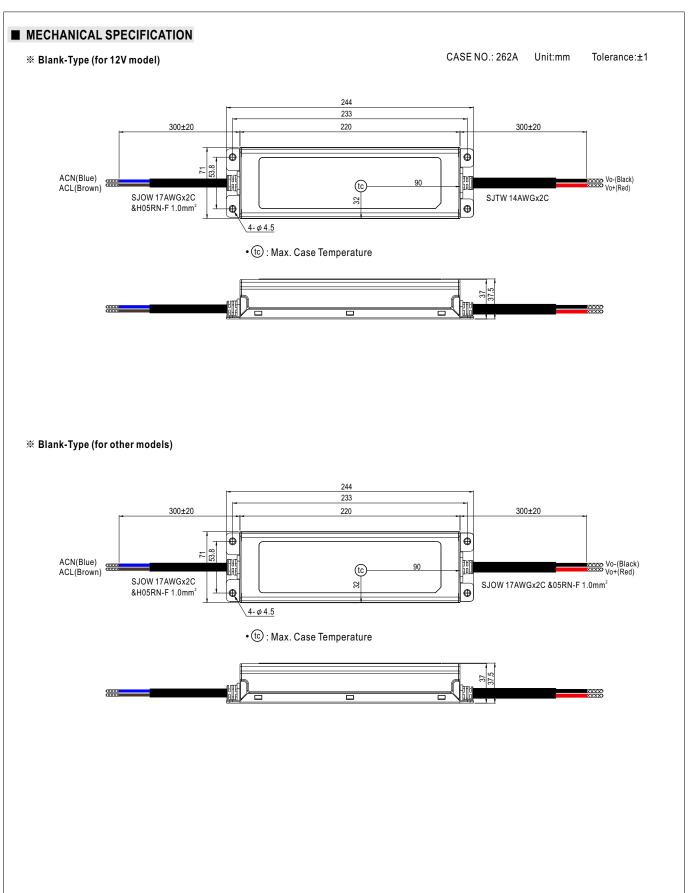
 ${\tt ELG-200}$  series possess superior working efficiency that up to 93% can be reached in field applications.



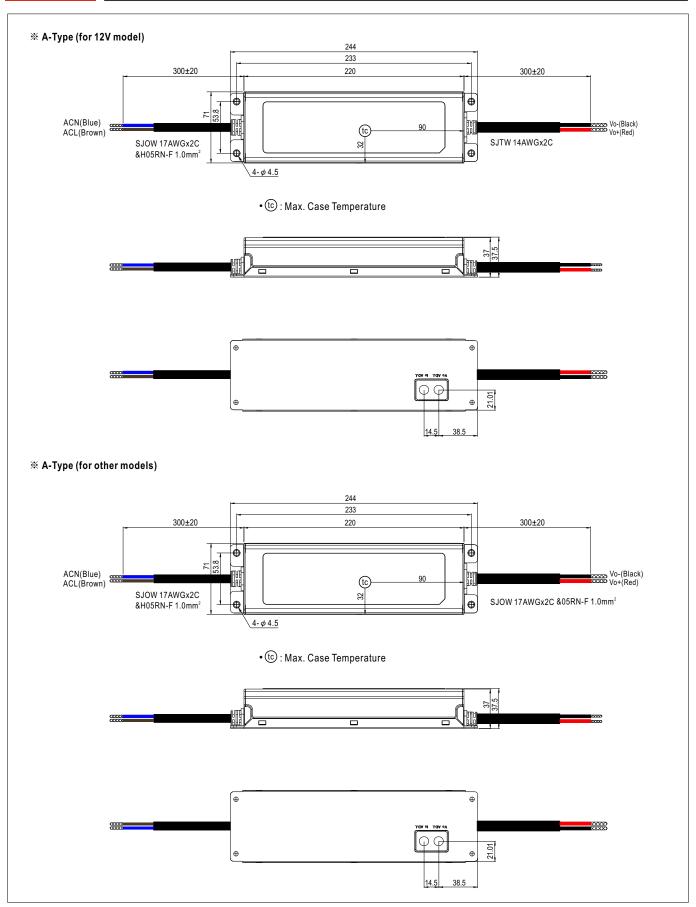
#### ■ LIFE TIME



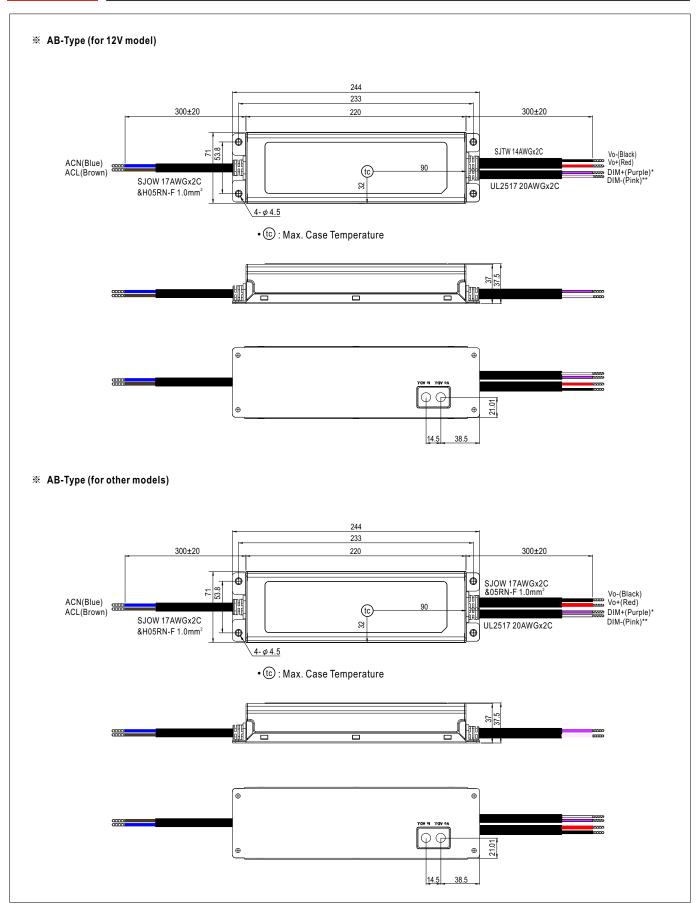






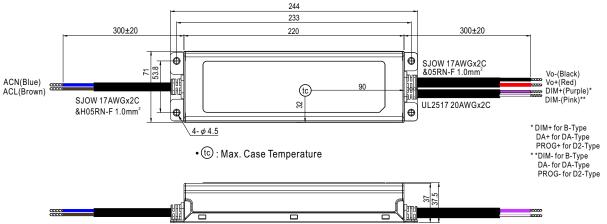




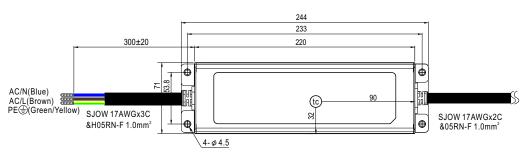




## ※ B/DA/D2-Type (for 12V model) 233 300±20 220 300±20 • • SJTW 14AWGx2C Vo-(Black) Vo+(Red) DIM+(Purple)\* ACN(Blue) (tc) SJOW 17AWGx2C 32 UL2517 20AWGx2C &H05RN-F 1.0mm<sup>2</sup> \* DIM+ for B-Type DA+ for DA-Type PROG+ for D2-Type \*\*DIM- for B-Type DA- for DA-Type PROG- for D2-Type 4-φ4.5 ullet (c): Max. Case Temperature ※ B/DA/D2-Type (for other models) 244 233 300±20 300±20 220



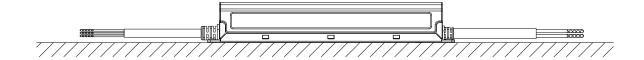
#### ※ 3Y Model (3-wire input)



• tc : Max. Case Temperature

- O Note1: Please connect the case to PE for the complete EMC deliverance and safety use.
- O Note2: Please contact MEAN WELL for input wiring option with PE.

#### ■ Recommend Mounting Direction



#### ■ INSTALLATION MANUAL

Please refer to:http://www.meanwell.com/manual.html











#### Features

- · Constant Voltage + Constant Current mode output
- · Metal housing design with functional Ground
- · Built-in active PFC function
- No load / Standby power consumption < 0.5W</li>
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
   3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- 5 years warranty

#### Applications

- · LED street lighting
- · LED architectural lighting
- · LED bay lighting
- · LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

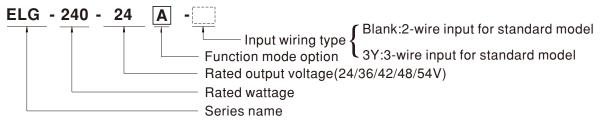
#### **■** GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

#### Description

ELG-240 series is a 240W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-240 operates from  $100{\sim}305$ VAC and offers models with different rated voltage ranging between 24V and 54V. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for  $-40\,^{\circ}\mathrm{C} \sim +90\,^{\circ}\mathrm{C}$  case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. ELG-240 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

#### **■** Model Encoding



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	AB IP65 Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)		In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock

File Name:ELG-240-SPEC 2024-10-11

## 180~240W Constant Voltage + Constant Current LED Driver

#### **SPECIFICATION**

MODEL		ELG-240-24	ELG-240-36	ELG-240-42	ELG-240-48	ELG-240-54		
	DC VOLTAGE	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2	12 ~ 24V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	10A	10A 6.66A 5.71A 5.0A 4.45A					
		200VAC ~ 305VAC		<u> </u>	<u>'</u>	<u>'</u>		
	RATED POWER	240W	239.76W	239.82W	240W	240.3W		
	KAILDFOWLK	100VAC ~ 180VAC	1		12.000	1=11111		
		180W	180W	179.76W	180W	180.36W		
	DIDDLE 9 NOICE (many ) 11 4 0		250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	RIPPLE & NOISE (max.) Note.3				250111Vp-p	3301117 р-р		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type	1		1			
DUTPUT		22.4 ~ 25.6V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V		
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type	, , , , ,					
		5 ~ 10A	3.33 ~ 6.66A	2.86 ~ 5.71A	2.5 ~ 5A	2.23 ~ 4.45A		
	VOLTAGE TOLERANCE Note.4	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC,	1000ms, 100ms/115V	AC				
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 1	15VAC					
	VOLTACE BANCE N. C. 5	100 ~ 305VAC 142	~ 431VDC					
	VOLTAGE RANGE Note.5	(Please refer to "STATIC	CHARACTERISTIC" se	ection)				
	FREQUENCY RANGE	47 ~ 63Hz						
	DOWED FACTOR	PF≥0.97/115VAC, PF≥						
	POWER FACTOR	(Please refer to "POWER	FACTOR (PF) CHARAC	CTERISTIC" section)				
		THD<20%(@load≥50%/115VC,230VAC; @load≥75%/277VAC)						
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL						
NPUT	EFFICIENCY (Typ.)	92%	92%	92.5%	93%	93%		
	AC CURRENT	2.2A / 115VAC 1.5A /	230VAC 1.2A/277VA	.C				
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=510µs measured at 50% lpeak) at 230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A							
	CIRCUIT BREAKER	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	NO LOAD / STANDBY POWER CONSUMPTION Note.7	No load power consumption <0.5W for Blank / A / Dx / D-Type						
	TOTIZA CONCOMI TION NOW.	canas, pensi concampion cichi in 27727271, pe						
	OVER CURRENT	95 ~ 108%						
		Constant current limiting, recovers automatically after fault condition is removed						
DOTEOTION	SHORT CIRCUIT	Hiccup mode, recovers a				00 071/		
PROTECTION	OVER VOLTAGE	27 ~ 34V	42~49V	47 ~ 54V	54 ~ 63V	60 ~ 67V		
		Shut down output voltage	5 , 1					
	OVER TEMPERATURE	Shut down output voltag	· · ·					
	WORKING TEMP.	Tcase=-40 ~ +90°C (Ple	ase refer to "OUTPUT L	OAD vs TEMPERATURE"	section)			
	MAX. CASE TEMP.	Tcase=+90°C						
	WORKING HUMIDITY	20 ~ 95% RH non-conde	ensing					
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +90°C, 10 ~ 95% F	RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./	1 cycle, period for 72 mir	ı. each along X, Y, Z axes				
		UL8750(type"HL"), CSA	C22.2 No. 250.13-12;IE	C/BS EN/EN/AS/NZS 6134	47-1, IEC/BS EN/EN/AS/N	ZS 61347-2-13 independer		
	SAFETY STANDARDS	,	,			48B/54/54A/54ADA/54B onl		
		GB19510.14,GB19510.1; IP65 or IP67;KC61347-1,KC61347-2-13 approved						
SAFETY &	DALI STANDARDS	Compliance to IEC6238	36-101,102,(207 by red	uest) for DA Type only				
MC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/	P-FG:2.0KVAC O/P-	FG:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-F0	G:100M Ohms / 500VD	C / 25°C / 70% RH				
	EMC EMISSION	Compliance to BS EN/E GB/T 17743, GB17625.		0-3-2 Class C (@load≥50 N15,KN61547	0%) ; BS EN/EN61000-3-3	;		
	EMC IMMUNITY	Compliance to BS EN/E Line-Line 4KV);EAC TP		1; BS EN/EN61547, light in	dustry level (surge immuni	ty Line-Earth 6KV,		
	MTBF	2391.4K hrs min. Teld	cordia SR-332 (Bellcore	); 190.7K hrs min. N	MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	244*71*37.5mm (L*W*H		, ,	(20 - )			
		1.22Kg; 12pcs / 15.2Kg	<u>,                                      </u>					
	PACKING	1.22Ng, 12pcs / 13.2Nu	0.720011					

- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

  4. Tolerance: includes set up tolerance, line regulation and load regulation.

  5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.

  6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.

  7. No load/standby power consumption is specified for 230VAC input.

  8. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

  (as available on https://www.meanwell.com/Upload/PDF/EMI\_statement\_en.pdf)

  9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less.

  10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com

  11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

  12. For any application note and IP water proof function installation caution, please refer our user manual before using.

  https://www.meanwell.com/Upload/PDF/LED\_EN.pdf

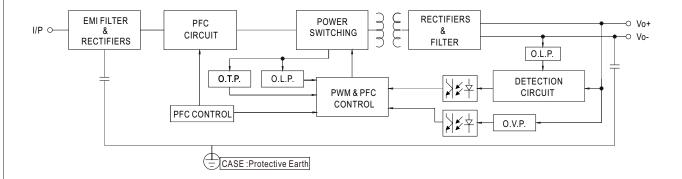
  13. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

- connected to the mains.
- 14. For A/AB type need to consider build in using to comply with Type HL application.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



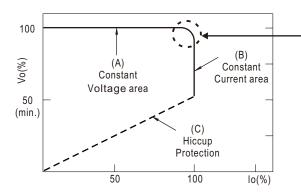
#### ■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



#### ■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

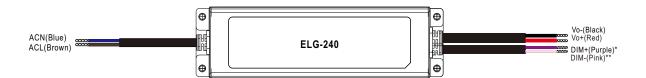
Should there be any compatibility issues, please contact MEAN WELL.

\* DIM+ for B/AB-Type DA+ for DA-Type PROG+ for D2-Type \*\*DIM- for BA-Type

DA- for DA-Type PROG- for D2-Type

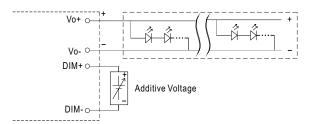


#### **■ DIMMING OPERATION**



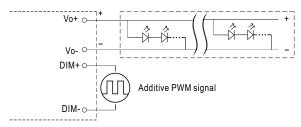
#### **※** 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:  $0 \sim 10 \text{VDC}$ , or 10 V PWM signal or resistance.
- · Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



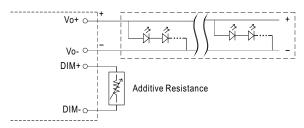
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

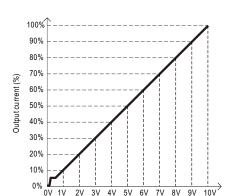


"DO NOT connect "DIM- to Vo-"

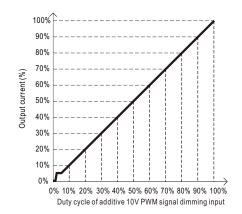
O Applying additive resistance:

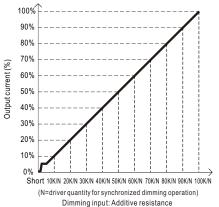


"DO NOT connect "DIM- to Vo-"



Dimming input: Additive voltage





Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

2. The output current could drop down to 0% when dimming input is about  $0 \, k\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.

#### 180~240W Constant Voltage + Constant Current LED Driver

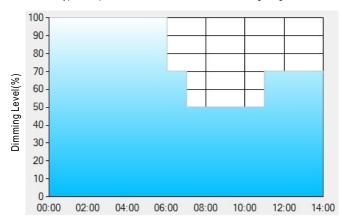
#### DALI Interface (primary side; for DA-Type)

- · Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 8% of output.

#### **X** Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex: OD01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

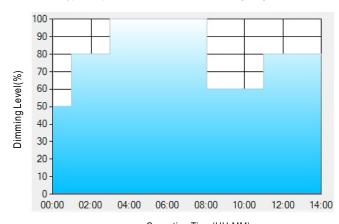
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
  - Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:
- [1] The power supply will switch to the constant current level at 100% starting from 6:00pm.
- [2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

  The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: O D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

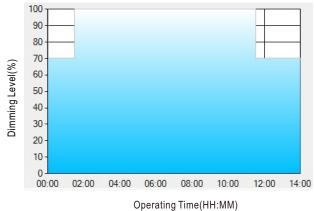
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
- Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
- [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

\*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

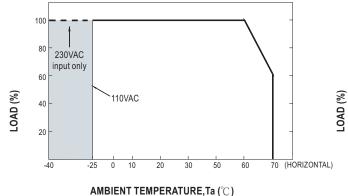
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

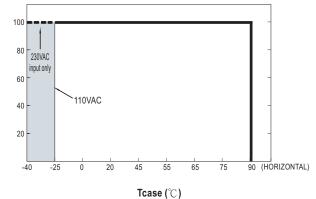
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00 am, which is 11:00 after the power supply turns on.

The constant current level remains till  $6:30\,\mathrm{am}$ , which is 14:00 after the power supply turns on.



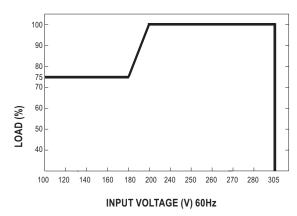
#### ■ OUTPUT LOAD vs TEMPERATURE(Note.10)





 If ELG-240 operates in Constant Current mode with the rated current, the maximum workable Ta is 60°C.

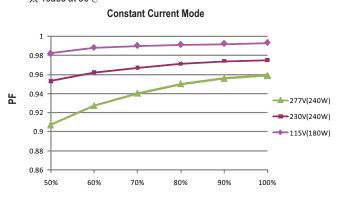
#### ■ STATIC CHARACTERISTIC



※ De-rating is needed under low input voltage.

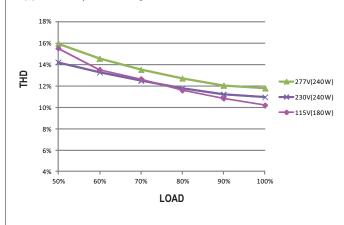
#### ■ POWER FACTOR (PF) CHARACTERISTIC

★ Tcase at 80°C



. . .

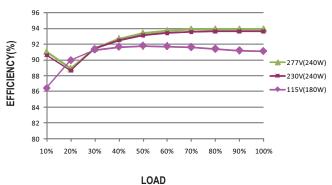
#### ■ TOTAL HARMONIC DISTORTION (THD)



#### **■** EFFICIENCY vs LOAD

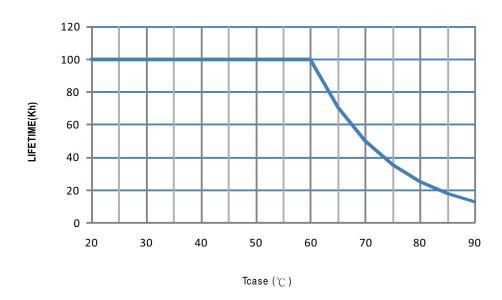
 ${\rm ELG\text{-}}240$  series possess superior working efficiency that up to 93% can be reached in field applications.

LOAD

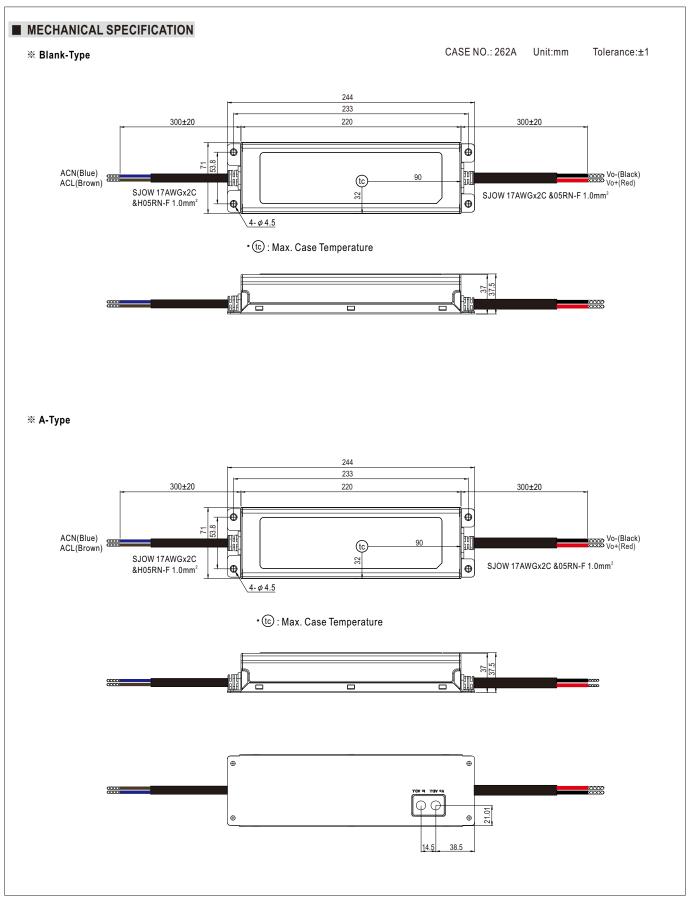




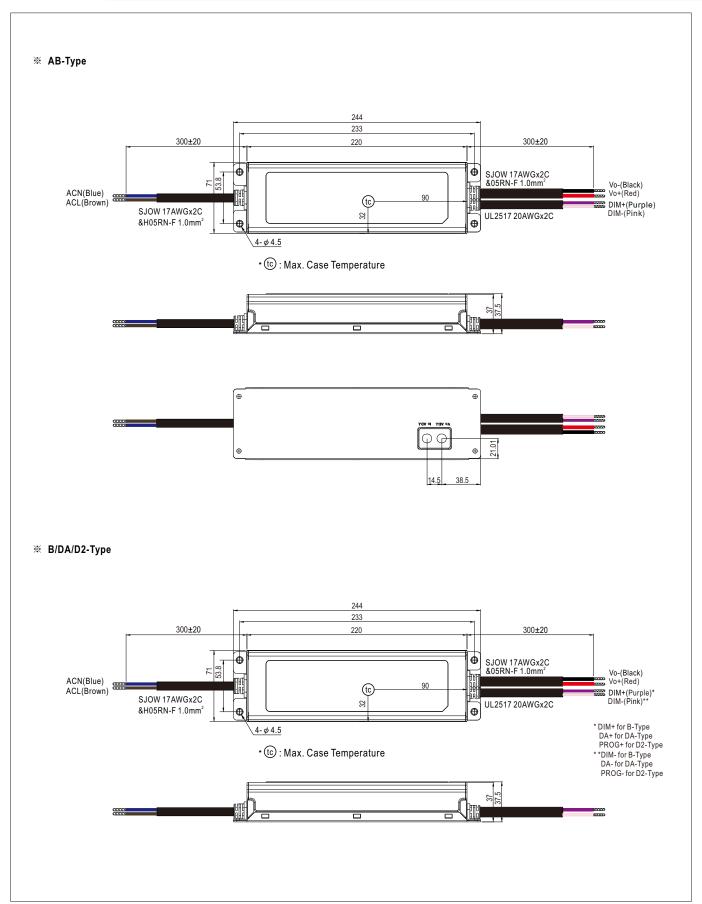
#### ■ LIFE TIME





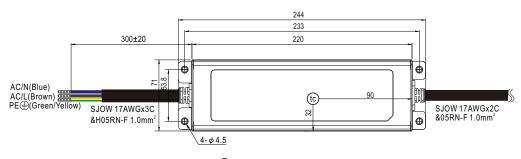








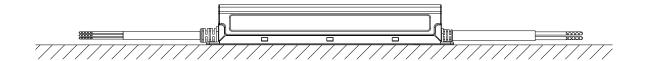
#### ※ 3Y Model (3-wire input)



• tc : Max. Case Temperature

- O Note1: Please connect the case to PE for the complete EMC deliverance and safety use.
- O Note2: Please contact MEAN WELL for input wiring option with PE.

#### ■ Recommend Mounting Direction



#### **■ INSTALLATION MANUAL**

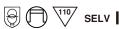
Please refer to:http://www.meanwell.com/manual.html

















#### Features

- · Constant Voltage + Constant Current mode output
- Protection Functions: OCP,SCP,OVP,OTP
- IP67 rating for indoor or outdoor installations
- Output adjustable via potentiometer
- Typical lifetime>50000 hours
- 5 years warranty

#### Applications

- · LED bay lighting
- · LED stage lighting
- LED flood lighting
- · LED strip lighting
- · DMX control system

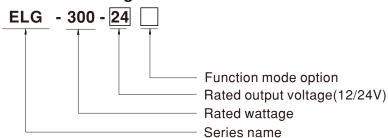
#### **■** GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

#### Description

ELG-300 series is a 300W LED driver featuring with constant current and Constant voltage mode design. ELG-300 operates from 100~305VAC and offers CV mode or CC mode applications. Thanks to the high efficiency up to 94%, with the fanless design, the ambient temperature can be operated for -40℃~+85℃ case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environmentadaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world, as to provide the optimal design flexibility for LED lighting system.

#### Model Encoding



Type	IP Level	Function	Note
Ā	IP67	Io and Vo adjustable through built-in potentiometer	In Stock



#### **SPECIFICATION**

MODEL			ELG-300-12A	ELG-300-24A		
	DC VOLTAGE		12V	24V		
	CONSTANT CURR	ENT REGION Note.2	10~ 12V	14.4~24V		
	RATED	200VAC ~ 305VAC	22A	12.5A		
	CURRENT	100VAC ~ 180VAC	18.7A	10.63A		
	RATED POWER	200VAC ~ 305VAC	264W	300W		
		100VAC ~ 180VAC	224.4W	255W		
	RIPPLE & NOIS	SE (max.) Note.3	150mVp-p	240mVp-p		
OUTPUT	VOLTAGE AD.		11.2 ~12.8V	22.4 ~25.6V		
	CURRENT AD.	I. RANGE	11 ~ 22A	6.25 ~ 12.5A		
	VOLTAGE TOL	ERANCE Note.4	±3.0%	±2.0%		
	LINE REGULA		±0.5%	±0.5%		
	LOAD REGUL		±2.0%	±1.0%		
	SETUP, RISE T		500ms, 100ms/230VAC, 500ms, 100ms/115\	/AC		
	HOLD UP TIME		10ms/ 230VAC 10ms/ 115VAC	,,,		
	TIOLD OF THE	- (1 <b>y</b> p.)	100 ~ 305VAC 142 ~ 431VDC			
	VOLTAGE RAN	IGE Note.5	(Please refer to "STATIC CHARACTERISTIC"	section)		
	FREQUENCY F	RANGE	47 ~ 63Hz			
	POWER FACT		PF≥0.95/115VAC, PF≥0.93/230VAC, PF≥0.	90/277VAC@full load		
	TOTAL HARMONI		THD<10%(@load≧50%/115VC,230VAC; @l			
NPUT	EFFICIENCY (		91%	94%		
	AC CURRENT	· <b>J</b> F · /	3A / 115VAC 1.6A / 230VAC 1.3A/277VAC			
	INRUSH CURRENT(Typ.)		COLD START 45A(twidth=1200µs measured at 50% lpeak) at 230VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER		2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT		<0.75mA / 277VAC			
			95 ~ 108%			
	OVER CURRENT		Constant current limiting, recovers automatically after fault condition is removed			
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed			
PROTECTION			13.5 ~ 17V 27 ~ 34V			
	OVER VOLTAG	aE	Shut down output voltage, re-power on to re-	cover		
	OVER TEMPER	RATURE	Shut down output voltage, re-power on to recover			
	WORKING TEN	IP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TE	MP.	Tcase=+85°C			
	WORKING HUI	MIDITY	20 ~ 95% RH non-condensing			
ENVIRONMENT	STORAGE TEN	IP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFI	CIENT	±0.03%/°C (0 ~ 60°C)			
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72n	nin. each along X, Y, Z axes		
	SAFETY STAN	DARDS		2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, 1, GB19510.14; KC61347-1,KC61347-2-13; IS15885(Part2/Sec13),IP67 approved; 0598		
SAFETY &	WITHSTAND V	OLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/F	P-FG:1.5KVAC		
EMC	ISOLATION RE	SISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V	DC / 25°C / 70% RH		
	EMC EMISSION		Compliance to BS EN/EN55015, BS EN/EN61			
	EMC IMMUNIT	Υ	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV),KN61547			
	MTBF		1827.7K hrs min. Telcordia SR-332 (Bellco	re); 196.5Khrs min. MIL-HDBK-217F (25°C)		
OTHERS	DIMENSION		246*77*39.5mm (L*W*H)	(== </td		
	PACKING		1.45 Kg; 9pcs /13.5Kg / 0.76CUFT			
			ly mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.			

- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
  4. Tolerance: includes set up tolerance, line regulation and load regulation.

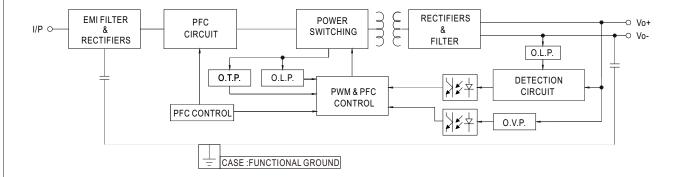
- Includes set up tolerance; line regulation and load regulation.
   De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
   Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
   The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI statement en.pdf)

- (as available of Thups, Neww.Theatwell.colm/ploatwr/pl
- For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED\_EN.pdf
   This series need to consider build in using to comply with Type HL application.
- XX Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



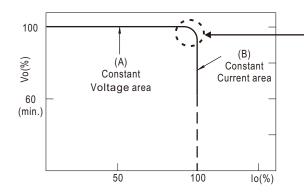
#### ■ Block Diagram

PFC fosc: 45KHz PWM fosc: 100KHz



#### ■ DRIVING METHODS OF LED MODULE

This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



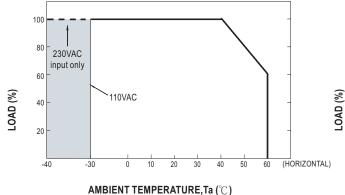
Typical output current normalized by rated current (%)

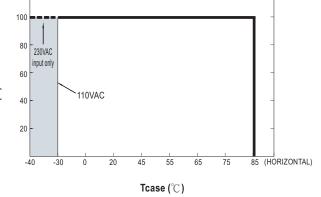
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.



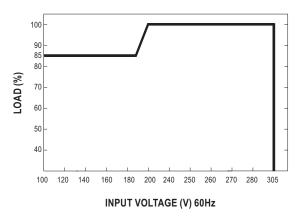
#### **■** OUTPUT LOAD vs TEMPERATURE





 $\odot$  If ELG-300 operates in Constant Current mode with the rated current, the maximum workable Ta is 40 $^{\circ}$ C.

#### ■ STATIC CHARACTERISTIC

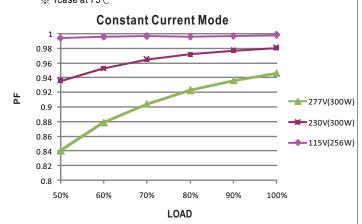


※ De-rating is needed under low input voltage.

#### ■ POWER FACTOR (PF) CHARACTERISTIC

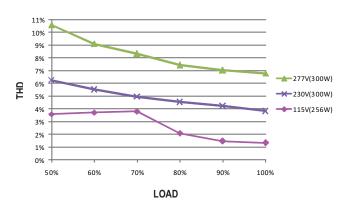
※ Tcase at 75°

C



#### ■ TOTAL HARMONIC DISTORTION (THD)

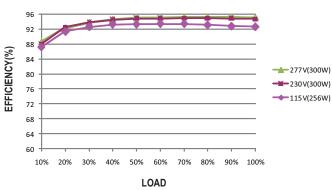
 $\mbox{\em \%}$  ELG-300-24A Model, Tcase at 75  $\mbox{\em C}$ 



#### **■** EFFICIENCY vs LOAD

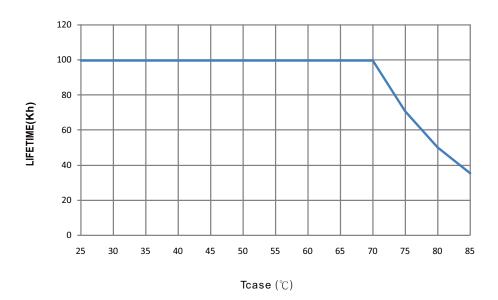
ELGC-300 series possess superior working efficiency that up to 94% can be reached in field applications.

% ELG-300-24A Model, Tcase at 75 $^{\circ}$ C





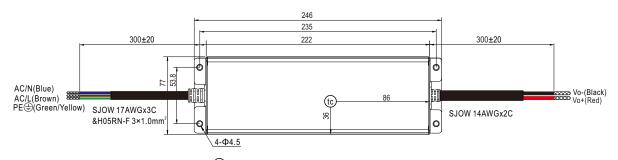
#### ■ LIFE TIME





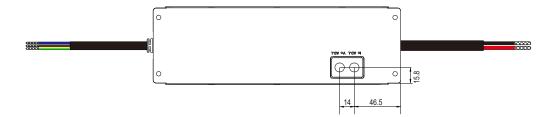
#### **■ MECHANICAL SPECIFICATION**

CASE NO.: 266A Unit:mm Tolerance:±1

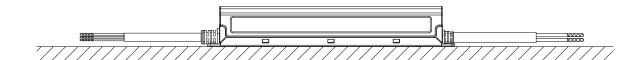


• tc : Max. Case Temperature





#### ■ Recommend Mounting Direction



#### **■ INSTALLATION MANUAL**

Please refer to:http://www.meanwell.com/manual.html







#### Features

- · Constant Voltage + Constant Current mode output
- · Metal housing design with functional Ground
- Built-in active PFC function
- · Class 2 power unit
- No load / Standby power consumption < 0.5W</li>
- Suitable for use in Dry, Damp and Wet Locations
- Function options: output adjustable via potentiometer;
   3 in 1 dimming (dim-to-off)
- Typical lifetime>50000 hours
- 5 years warranty

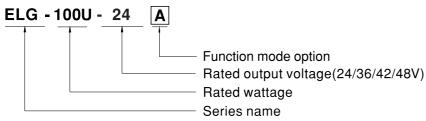
#### Applications

- · LED street lighting
- · LED architectural lighting
- · LED bay lighting
- · LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

#### **■** GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

#### **■** Model Encoding



Туре	Function	Note
Blank	Io and Vo fixed.	By Request
Α	Io and Vo adjustable through built-in potentiometer.	By Request
В	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	By Request



## 100W Constant Voltage + Constant Current LED Driver

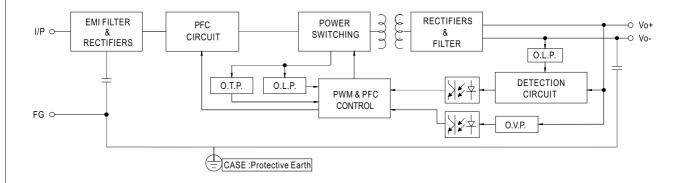
# ELG-100U series

#### **SPECIFICATION**

MODEL		ELG-100U-24	ELG-100U-36	ELG-100U-42	ELG-100U-48			
	DC VOLTAGE	24V	36V	42V	48V			
	CONSTANT CURRENT REGION Note.2	12 ~ 24V	18 ~ 36V	21 ~ 42V	24 ~ 48V			
	RATED CURRENT	4.0A	2.66A	2.28A	2A			
	RATED POWER	96W	95.76W	95.76W	96W			
	RIPPLE & NOISE (max.) Note.3	200mVp-p	250mVp-p	250mVp-p	300mVp-p			
OUTPUT	,	Adjustable for A-Type only (via t	the built-in potentiometer)					
	VOLTAGE ADJ. RANGE	21.6 ~ 26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V			
OUTPUT		Adjustable for A-Type only (via t		07.0 <del>4</del> 0.2 V	70.Z 3Z.0V			
	CURRENT ADJ. RANGE	2 ~ 4A	1.33 ~ 2.66A	1.14 ~ 2.28A	1 ~ 2A			
	VOLTACE TOLEDANCE W	±3.0%	±2.5%	±2.5%	±2.0%			
	VOLTAGE TOLERANCE Note.4							
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%			
	SETUP, RISE TIME Note.6		0ms, 100ms/230VAC					
	HOLD UP TIME (Typ.)	15ms/120VAC 10ms/230VA						
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 43 (Please refer to "STATIC CHAR						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR		30VAC, PF≧ 0.92/277VAC@full l DR (PF) CHARACTERISTIC" sec					
	TOTAL HARMONIC DISTORTION		AC; @load≧60%/230VAC; @loa ONIC DISTORTION(THD) secti					
INPUT	EFFICIENCY (Typ.)	88%	89%	90%	90%			
	AC CURRENT		AC 0.5A/277VAC	1 00,0	1 00.00			
	INRUSH CURRENT(Typ.)			of the second se	eak) at 277VAC: Per NFMA 410			
	LEAKAGE CURRENT	COLD START 60A(twidth = 1.4ms measured at 10% lpeak , twidth = 620us measured at 50% lpeak) at 277VAC; Per NEMA 410 < 0.75mA / 277VAC						
	NO LOAD / STANDBY POWER CONSUMPTION	<0.5W						
		95 ~ 108%						
	OVER CURRENT	Constant current limiting, recove	rs automatically after fault conditi	on is removed				
	SHORT CIRCUIT	Hiccup mode, recovers autom	natically after fault condition is r	removed				
PROTECTION		28 ~ 34V	41~48V	47 ~ 54V	54 ~ 62V			
	OVER VOLTAGE		nut down output voltage, re-power on to recover					
	OVER TEMPERATURE		auto-recovery or re-power on t	to recover				
	WORKING TEMP.		er to "OUTPUT LOAD vs TEMPE					
	MAX. CASE TEMP.	Tcase=+85°C						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
ENVIRONWENT	·	•						
	TEMP. COEFFICIENT VIBRATION	±0.03%/°C (0~60°C)						
			period for 72min. each along X,	t, Z axes				
	SAFETY STANDARDS	UL8750 (type"HL" ),CSA C22.22	**					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2						
EMC	ISOLATION RESISTANCE		1 Ohms / 500VDC / 25°C / 70% R	RH				
	EMC EMISSION	Compliance to FCC part 15 clas	ss B					
	EMC IMMUNITY	Design refer to IEC61000-4-2,3	,4,5,6,8,11;EN61547,light indust	try level				
	MTBF	2877.8K hrs min. Telcordia SR-3	332 (Bellcore) 287.5Khrs m	nin. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	199*63*35.5mm (L*W*H)						
	PACKING	0.85kg; 16pcs/14.2kg/0.720	CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%-100% of maximum voltage under rated power delivery. 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 4. Tolerance: includes set up tolerance, line regulation and load regulation. 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.  (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 80°C or less. 9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).							

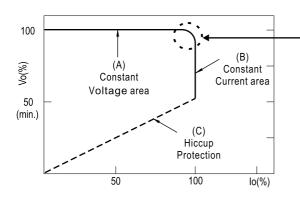
#### ■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



#### ■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

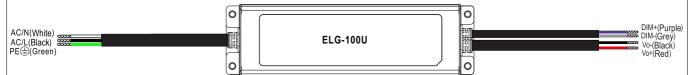


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

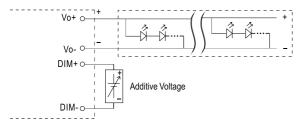
Should there be any compatibility issues, please contact MEAN WELL.

#### ■ DIMMING OPERATION



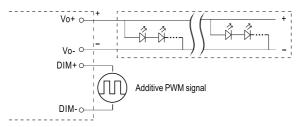
#### **※ 3 in 1 dimming function (for B-Type)**

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
   0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100μA (typ.)
- O Applying additive 0 ~ 10VDC



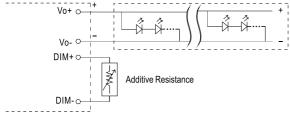
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

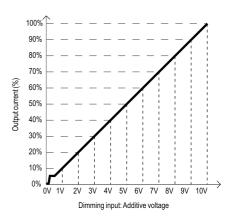


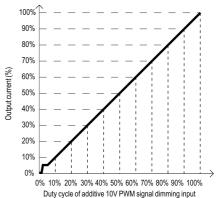
"DO NOT connect "DIM- to Vo-"

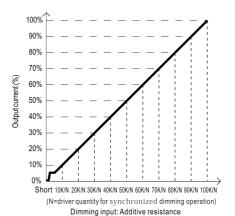
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"



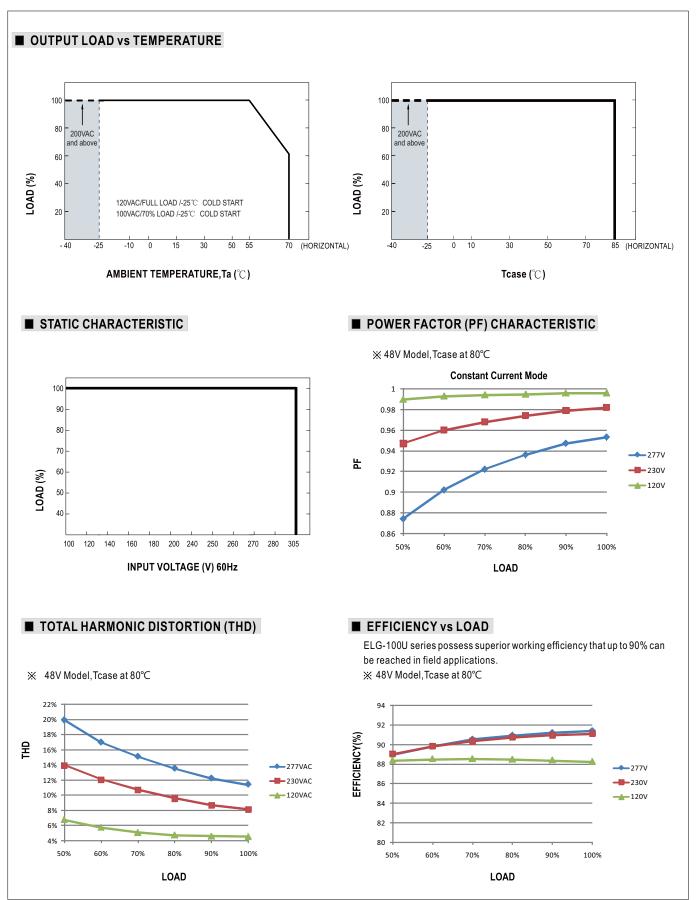




Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

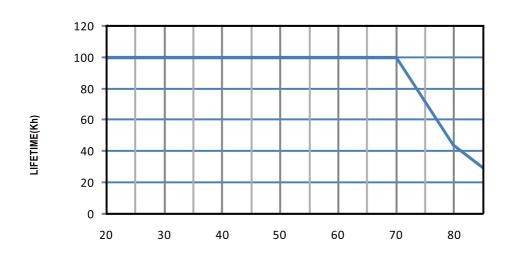
2. The output current could drop down to 0% when dimming input is about 0k  $\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.







#### ■ LIFE TIME

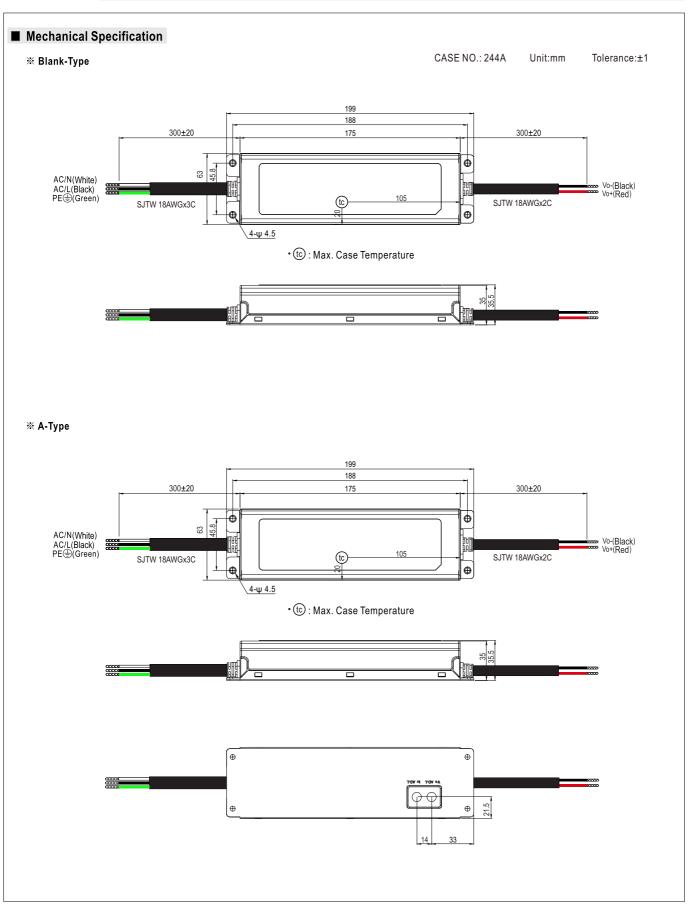


Tcase (°C)

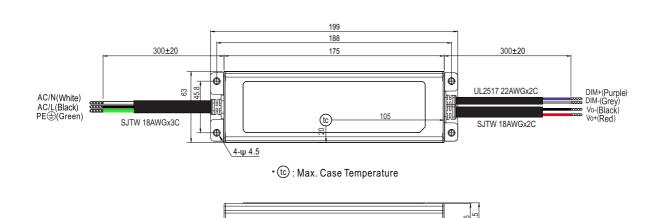


## 100W Constant Voltage + Constant Current LED Driver

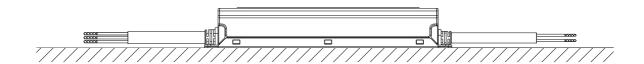
# ELG-100U series



#### ※ B-Type



#### ■ Recommend Mounting Direction



#### **■ INSTALLATION MANUAL**

Please refer to:http://www.meanwell.com/manual.html







#### Features

- · Constant Voltage + Constant Current mode output
- · Metal housing design with functional Ground
- · Built-in active PFC function
- No load / Standby power consumption < 0.5W
- · Suitable for use in Dry, Damp and Wet Locations
- Function options: output adjustable via potentiometer;
   3 in 1 dimming (dim-to-off)
- Typical lifetime>50000 hours
- 5 years warranty

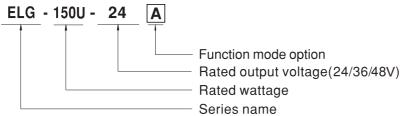
#### Applications

- · LED street lighting
- LED architectural lighting
- · LED bay lighting
- · LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

#### **■** GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

## Model Encoding



Type	Function	Note
Blank	lo and Vo fixed.	By Request
Α	lo and Vo adjustable through built-in potentiometer.	By Request
В	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	By Request

## $150 W\,Constant\,Voltage + Constant\,Current\,LED\,Driver$

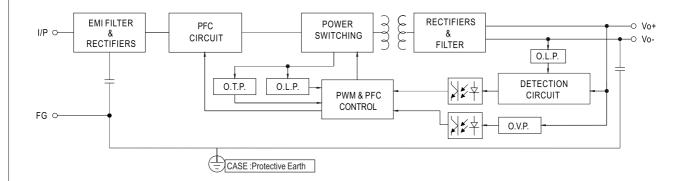
# ELG-150U series

#### **SPECIFICATION**

MODEL		ELG-150U-24	ELG-150U-36	ELG-150U-48		
	DC VOLTAGE	24V	36V	48V		
ОИТРИТ	CONSTANT CURRENT REGION Note.2	12 ~ 24V	18 ~ 36V	24 ~ 48V		
	RATED CURRENT	6.25A	4.17A	3.13A		
	RATED POWER	150W	150.1W	150.2W		
	RIPPLE & NOISE (max.) Note.3	200mVp-p	250mVp-p	250mVp-p		
		Adjustable for A-Type only (via the built-in potentiometer)				
	VOLTAGE ADJ. RANGE	21.6 ~ 26.4V	32.4 ~ 39.6V	43.2 ~ 52.8V		
		Adjustable for A-Type only (via the built-in		10.2 02.07		
	CURRENT ADJ. RANGE	3.2 ~ 6.25A	2.1 ~ 4.17A	1.56 ~ 3.13A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.5%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%	±0.5%		
	SETUP, RISE TIME Note.6	1600ms, 80ms/120VAC 500ms, 100n	ns/230VAC			
	HOLD UP TIME (Typ.)	10ms/120VAC, 230VAC				
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	PF ≥ 0.97/120VAC, PF≥ 0.95/230VAC, PF≥ 0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧50%/120VC; @load≥60%/230VAC; @load≥75%/277VAC) (Please refer to TOTAL HARMONIC DISTORTION(THD) section)				
INPUT	EFFICIENCY (Typ.)	89%	90%	90%		
	AC CURRENT	1.7A / 120VAC				
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth= 1ms measured at 10% Ipeak) at 277VAC; Per NEMA 410				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	NO LOAD / STANDBY POWER CONSUMPTION	<0.5W				
PROTECTION	OVER CURRENT	95 ~ 108%  Constant current limiting, recovers automatically after fault condition is removed				
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
		28 ~ 34V	41~48V	54 ~ 62V		
	OVER VOLTAGE	Shut down output voltage, re-power on to	recover			
	OVER TEMPERATURE	Shut down output voltage with auto-recovery or re-power on to recover				
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to OUTPUT LOAD vs TEMPERATURE section)				
	MAX. CASE TEMP.	Tcase=+85°C				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)				
İ	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
+	SAFETY STANDARDS	Design refer to UL8750 (type"HL" ),CSA C22.22 No.250.13-12				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
	EMC EMISSION	Design refer to FCC part 15 class A				
	EMC IMMUNITY	Design refer to IEC61000-4-2,3,4,5,6,8,11;EN61547,light industry level				
OTHERS	MTBF	2554.5K hrs min. Telcordia SR-332 (Bellcore) 252.4Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	219*63*35.5mm (L*W*H)				
	PACKING	0.95Kg; 16pcs/16.0kg/0.77CUFT				
NOTE	Please refer to "DRIVING METH     Ripple & noise are measured at:     Tolerance: includes set up tolera     De-rating may be needed under     Length of set up time is measure     The driver is considered as a cor     complete installation, the final eq     (as available on https://www.mea     This series meets the typical life	arameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. See refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery. le & noise are measured at 20MHz of bandwidth by using a 12" kwisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ance: includes set up tolerance, line regulation and load regulation.  ating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" sections for details. the of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the olete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. variable on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75°C or less. see refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.				

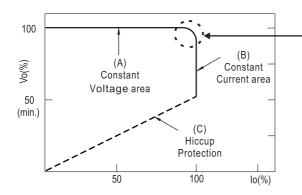
#### ■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



#### **■ DRIVING METHODS OF LED MODULE**

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



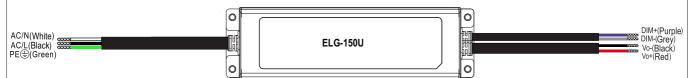
Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

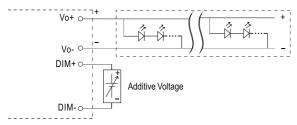






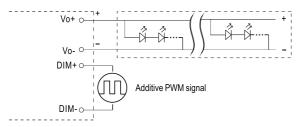
#### ※ 3 in 1 dimming function (for B-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
   0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100μA (typ.)
- O Applying additive 0 ~ 10VDC



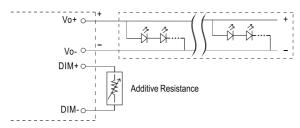
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

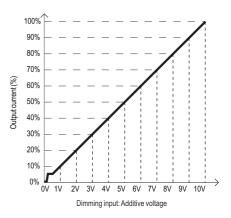


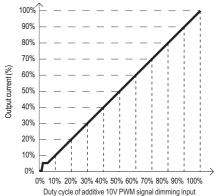
"DO NOT connect "DIM- to Vo-"

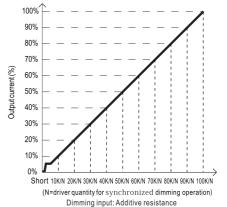
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"



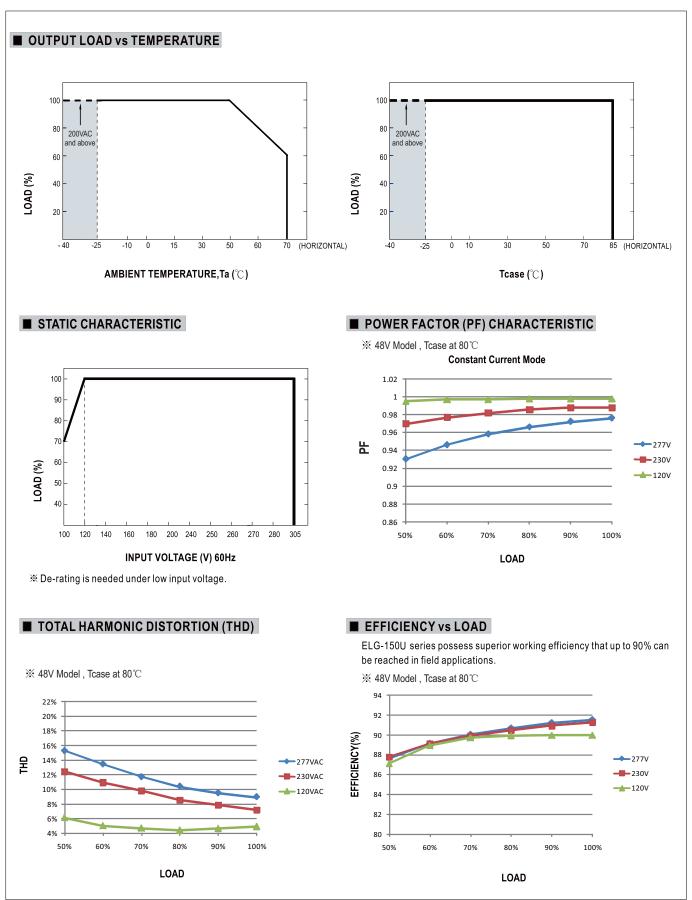




Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

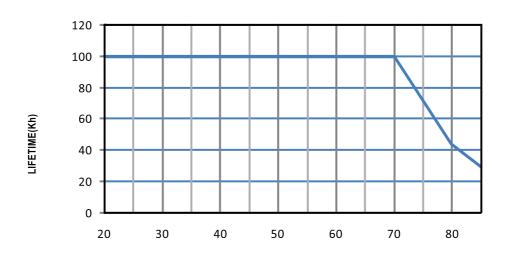
2. The output current could drop down to 0% when dimming input is about  $0 \, \mathrm{k} \, \Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.







#### ■ LIFE TIME

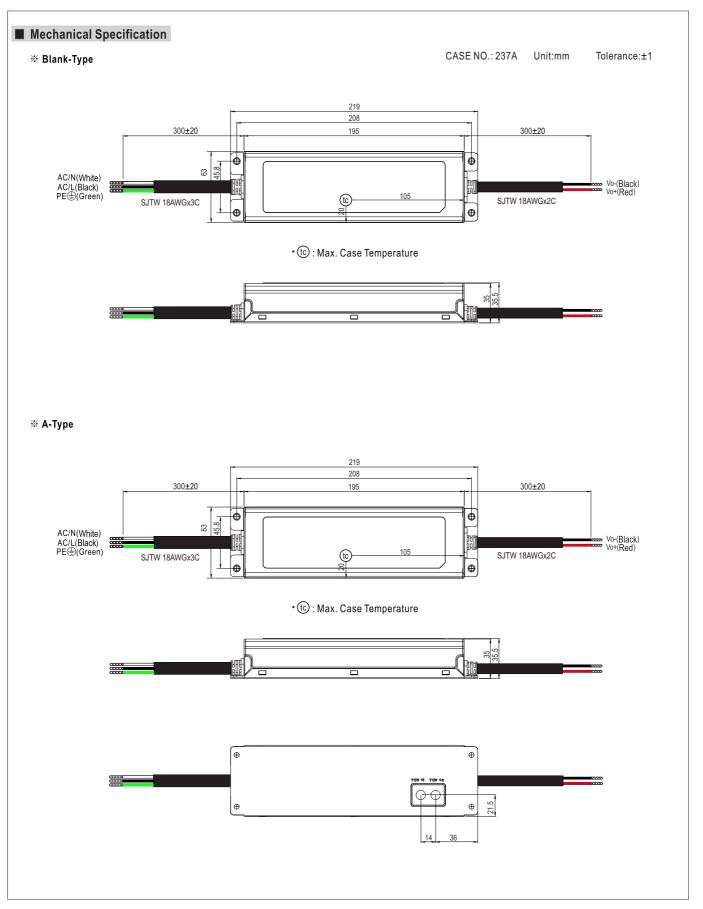


Tcase (°C)

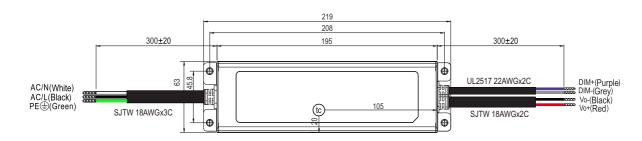


## 150W Constant Voltage + Constant Current LED Driver

# ELG-150U series



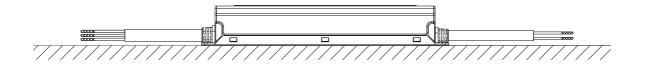
#### ※ B-Type



• tc : Max. Case Temperature



#### ■ Recommend Mounting Direction



#### ■ INSTALLATION MANUAL

Please refer to:http://www.meanwell.com/manual.html