















■ Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- · Low profile:26mm
- · Built-in active PFC function
- Fanless design, cooling by free air convection
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Low leakage current<1.0mA
- LED indicator for power on
- 3 years warranty

Applications

- · LED signage display
- Moving sign
- · LED channel letter
- · LED TV wall

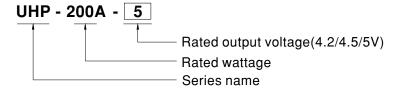
GTIN CODE

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

Description

UHP-200A series is a 200W LED display power solution. The ultra low profile design that allows the height and weight of the sign module to be slim. It greatly simplifies the delivery and installation process. Accounting for high efficiency and energy saving, the series effectively achieves electricity reduction. It is suitable for LED signage display, moving sign, LED channel letter and LED TV wall etc.

Model Encoding





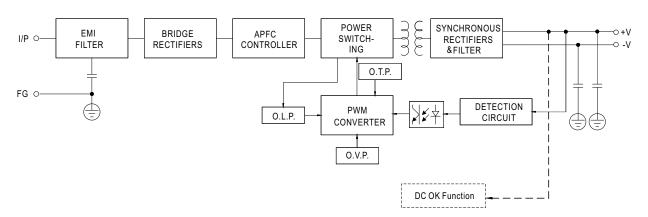
SPECIFICATION

MODEL		UHP-200A-4.2	UHP-200A-4.5	UHP-200A-5				
	DC VOLTAGE	4.2V	4.5V	5V				
	RATED CURRENT	40A	40A	40A				
	CURRENT RANGE	0~40A	0~40A	0~40A				
	RATED POWER	168W	180W	200W				
	RIPPLE & NOISE(max.) Note.2		200mVp-p	200mVp-p				
OUTPUT	VOLTAGE ADJ. RANGE	4.0~4.4V	4.3~4.7V	4.7~5.3V				
	VOLTAGE TOLERANCE Note.3	·	±4.0%	±4.0%				
	LINE REGULATION	±0.5%	±0.5%	±0.5%				
	LOAD REGULATION	±2.5%	±2.5%	±2.5%				
	SETUP, RISE TIME	2000ms, 200ms/230VAC at full load,						
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC	3000113, 200113/113VAC at 00 /0 10au					
	DC OK FUNCTION	PSU Turns on:DC ok; PSU turns off:	DC fail					
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC	DC Iaii					
		47 ~ 63Hz						
}	FREQUENCY RANGE		AC at full load					
INPUT	POWER FACTOR (Typ.) EFFICIENCY (Typ.)	PF≥0.97/115VAC PF≥0.95/230VA 88%		00 50/				
			88%	88.5%				
	AC CURRENT (Typ.)	2.4A/115VAC 1.2A/230VAC						
	INRUSH CURRENT (Typ.)	Cold start 85A/230VAC						
	LEAKAGE CURRENT	<1.0mA / 240VAC						
	OVERLOAD	110~140% rated output power						
		Protection type: Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION	SHORT CIRCUIT	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
I NOTEOTION	OVER VOLTAGE	4.6 ~ 6V	5 ~ 6.4V	5.6 ~ 7.1V				
		Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	OVER TEMPERATURE	Protection type: Shut down O/P voltage, recovers automatically after fault condition is removed						
	WORKING TEMP.	-30 ~ +70°C (Refer to "OUTPUT LOAD vs TEMPERATURE")						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
ENVIRONMENT								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60mir	•					
	SAFETY STANDARDS		GB 4943.1, EAC TP TC 004 approved					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.0KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
EMC (Note.5)	ISOLATION RESISTANCE	E I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C / 70%RH						
	EMC EMISSION Note.8	Compliance to BS EN/EN55032 (CISPR32),GB17625.1,GB/T 9254.1, BS EN/EN61000-3-2,-3,EAC TP TC 020						
	EMC IMMUNITY	•	,4,5,6,8,11;BS EN/EN55035, light indu					
	MTBF		32 (Bellcore); 211.7K hrs min. MIL-	-HDBK-217F (25°C)				
OTHERS	DIMENSION	167*55*26mm (L*W*H)						
	PACKING	0.42kg; 20pcs/ 11.4kg/0.76CUFT						
NOTE		Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.						
	Tolerance : line regulation as		The second secon	- Instrument and markets				
	4. Derating may be needed under low input voltages. Please check the static characteristics for more details.							
	- '	is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. eansure shall be made with 10% load at least.						
	7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by n							
	·		ent must be re-confirmed that it still meets	EMC directives. For guidance on how to				
	perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)							
		_	residential environment may cause radio in	nterference.				
	※ Product Liability Disclaimer	Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						

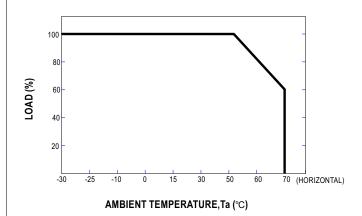


■ Block Diagram

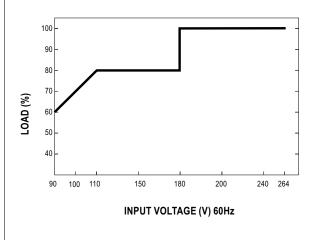
PFC fosc: 65KHz PWM fosc: 75~200KHz



■ OUTPUT LOAD vs TEMPERATURE



■ STATIC CHARACTERISTIC



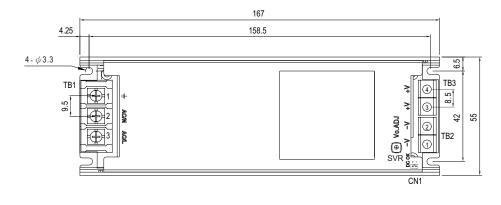
UHP-200A series

■ Mechanical Specification

CASE NO.: 249A

Unit:mm

Tolerance:±1





AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(DECA)	
2	AC/N	T14-EM11033703	13Kgf-cm
3	≐	114 EW11000700	

DC Output Terminal (TB2, TB3) pin NO. Assignment

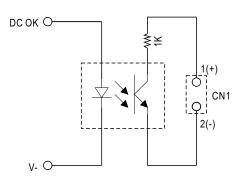
Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	TB-HTP-200-40A	8Kgf-cm

DC OK Connector(CN1):JST B2B-PH-K-S or equivalent

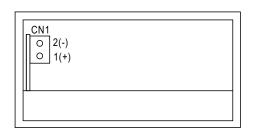
Pin No.	Assignment	Mating Housing	Terminal
1	DC OK +V	JST PHR-2	JST SPH-002T-P0.5S
2	DC COM	or equivalent	or equivalent

■ Function manual

1.Internal circuit of DC ok



Contact Close	PSU turns on	DC ok
Contact Open	PSU turns off	DC fail
Contact Rating(max.)	10Vdc/1mA	

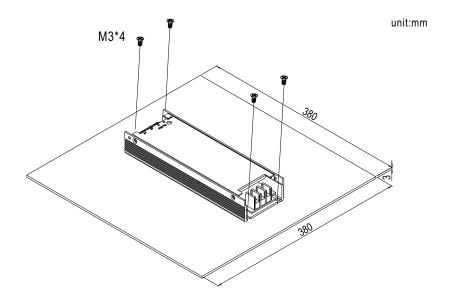




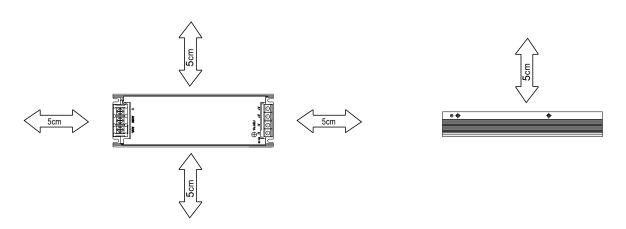
■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-200A series must be installed onto an aluminum plate (or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-200A series must be firmly mounted at the center of the aluminum plate.



2.For heat dissipation, at least 5cm installation distance around the PSU should be kept, shown as below:





































Features

- Slim and Low profile (26mm)
- · Fanless design,200W convection
- · Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- -30~+70°C working temperature
- Protections: Short circuit / Overload / Over voltage / Over temperature
- DC OK active signal and redundant function(option)
- Operating altitude up to 5000 meter (Note.5)
- · LED indicator for power on
- · 3 years warranty

Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- Household appliances
- · LED display application
- Power Source Equipment for PoE(55V model)

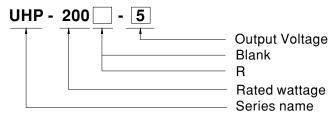
■ GTIN CODE

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

Description

UHP-200 series is a 200W single-output slim type power supply with 26mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V,48V and 55V . In addition to the high efficiency up to 94%, that the whole series operates from -30° C \sim 70° C under air convection without fan. UHP-200 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV BS EN/EN62368-1,BS EN/EN60335-1,UL 62368-1 and GB 4943.1. UHP-200 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding



Type	Description	Note
Blank	Enclosed	In Stock
R	Built-in DC OK active signal and redundant function.	In Stock

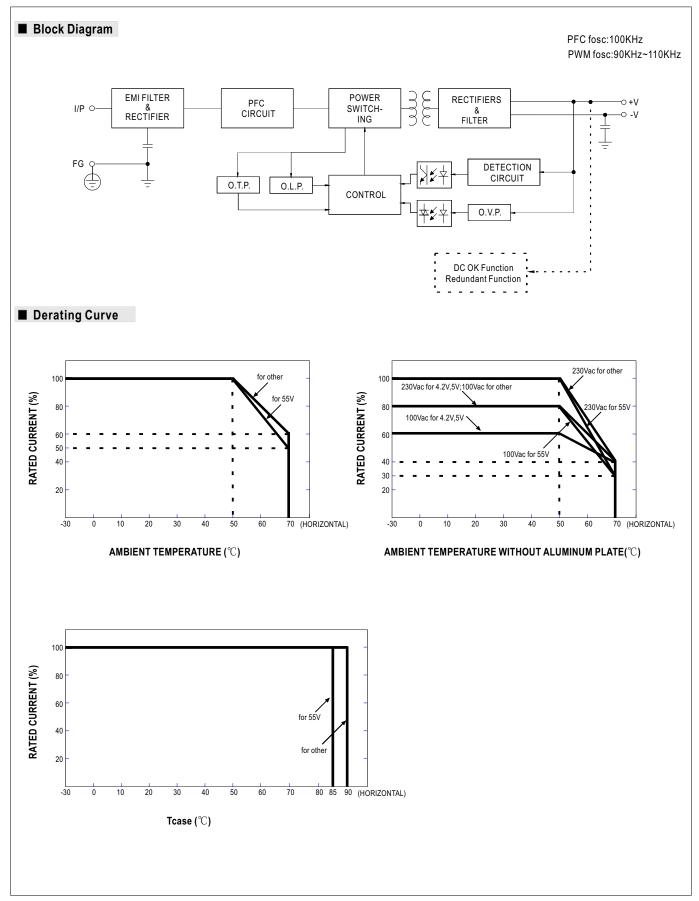
200W Slim Type with PFC Switching Power Supply

SPECIFICATION

MODEL		UHP-200 <u></u> -3.3	UHP-200 <u></u> -4.2	UHP-200□-5	UHP-20012	UHP-200 □-15	UHP-20024	UHP-20036	UHP-20048	UHP-200
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V	55V
	RATED CURRENT	40A	40A	40A	16.7A	13.4A	8.4A	5.6A	4.2A	3.6A
	RATED POWER	132W	168W	200W	200.4W	201W	201.6W	201.6W	201.6W	201.6W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	240mVp-p	240mVp-p	240mVp-p	240mVp-p	300mVp-p	360mVp-p
	VOLTAGE ADJ. RANGE	3.2~3.5V	3.6~4.4V	4.5~5.5V	11.4~12.6V	14.3~15.8V	22.8~25.2V	34.2~37.8V	45.6~50.4V	45~58V
OUTPUT	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME				AC at full load;5				1	
	HOLD UP TIME (Typ.)	10ms/230VAC	10ms/115V							
	, , ,	90 ~ 264VAC	127 ~ 370\							
	FREQUENCY RANGE	47 ~ 63Hz	121 - 3100	DC						
			/AC PF≥0.98	2/115\/A C at full	Lload					
INDUT	POWER FACTOR (Typ.)				1	040/	0.40/	0.40/	0.40/	0.40/
INPUT	EFFICIENCY (Typ.)	89%	90%	91%	93%	94%	94%	94%	94%	94%
	AC CURRENT (Typ.)	2.2A/115VAC	1.1A/230V/							
	INRUSH CURRENT (Typ.)Note.8			0A/230VAC						
	LEAKAGE CURRENT	<0.75mA / 240								
PROTECTION	OVERLOAD	110~140% rate	ed output powe	r						
		Protection typ	e : Hiccup mod	e, recovers auto	matically after					
	OVER VOLTAGE	3.8~ 4.6V	4.62 ~ 5.46V	5.75 ~ 6.75V	13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	39.6 ~46.8V	52.8 ~ 62.4V	60 ~ 69V
		Protection type :Shut down O/P voltage,re-power on to recover								
	OVER TEMPERATURE	Protection type :Shut down O/P voltage or Hiccup mode, recovers automatically after temperature goes down								
	DC OK SIGNAL(Optional)	Contact rating(max.):15Vdc/10mA resistive load								
FUNCTION	REDUNDANT(Optional)	For parallel connection protection:For parallel applications, when one PSU can not work, the another one will be automatically enabled. This can prevent the system crash, and provide the reliability of system								
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes								
	SAFETY STANDARDS				•			EAC TP TC 004 S15598-1 appr		
SAFETY &	WITHSTAND VOLTAGE	KC62368-1(only for UHP-200-24),BS EN/EN61558-1,BS EN/EN61558-2-16,BSMI CNS15598-1 approved I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC								
EMC (Note.6)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25°C / 70%RH								
(,	EMC EMISSION	Compliance to BS EN/EN55032,GB17625.1,GB/T 9254.1,Class B, BS EN/EN55014,BS EN/EN61000-3-2,-3, EAC TP TC 020,BSMI CNS15936								
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11;BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level ,EAC TP TC 020								
	MTBF	2472.1 K hrs	min. Telcordi	a SR-332 (Bello	core); 257.0K h	ırs min. MIL-	HDBK-217F (25	5℃)		
OTHERS	DIMENSION	194*55*26mn	n (L*W*H)							
	PACKING	0.468kg;24pc	s/12.2kg/0.49C	UFT						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance :includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltages. Please check the derating curve for more details. 5. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft) 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 7. R type efficiency slightly less than the Blank type, according to the actual measurement. 8. Inrush current parameter has 10% tolerance. 9. RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.									

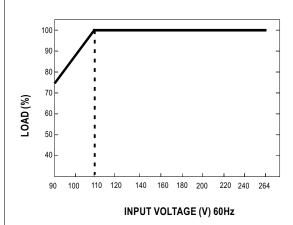
X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







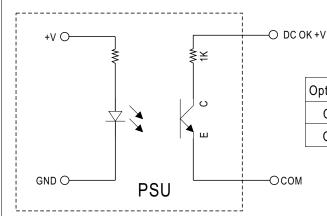
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

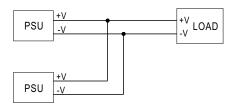
 $\label{eq:DCOK} DC_OK \ is \ a \ collector \ shorted \ signal. \ It \ is \ used \ by \ an \ optocoupler \ in \ the \ power \ supply \ which \ indicates \ the \ output \ status \ of \ the \ power \ supply \ as \ exhibited \ below.$



Optocoupler C-E Pin Conduction	PSU turns on	DC ok
Optocoupler C-E Pin Open	PSU turns off	DC fail
Optocoupler Rating(max.)	15Vdc/10mA re	sistive load

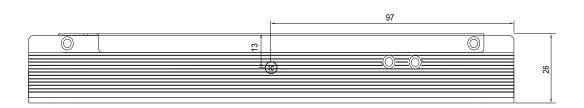
2.Redundant function

- (1) UHP-200R is built-in redundant function and can be connected 2 units in parallel .
- (2) When in parallel operation the maximum load should not be greater than the rated power of any PSU.





■ Mechanical Specification CASE NO.:249B Unit:mm Tolerance:±1



• (tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(DEGSON) DG28C-B-03P 5Kgf-cm	
2	AC/N		5Kgf-cm
3	늘	B 0 2 0 0 B 0 0 1	

DC OK Connector(CN10):JST B2B-PH-K-S or equivalent

		- /	1
Pin No.	Assignment	Mating Housing	Terminal
1	DC COM	331 FIIK-2 331 3FII-0021-	
2	DC OK +V	or equivalent	or equivalent

DC Output Terminal (TB2,TB3) pin NO. Assignment

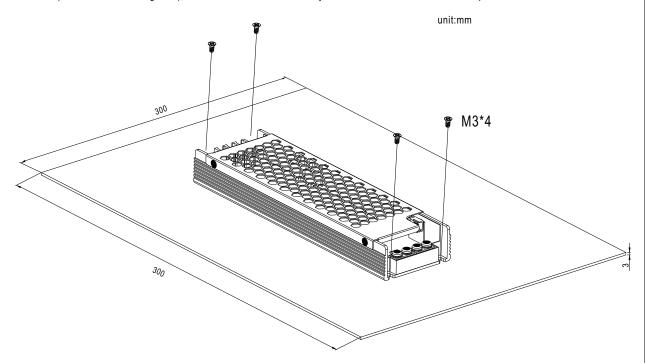
Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	TB-HTP-200-40A	8Kgf-cm



■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-200 series must be installed onto an aluminum plate (or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-200 series must be firmly mounted at the center of the aluminum plate.





































Features

- · Slim Low profile (31mm)
- Fanless design,350W convection
- · Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- -30~+70°C working temperature
- Protections: Short circuit / Overload / Over voltage / Over temperature
- DC OK active signal and redundant function(option)
- Operating altitude up to 5000 meter (Note.5)
- · LED indicator for power on
- · 3 years warranty

■ Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- · Household appliances
- · LED display application
- Power Source Equipment for PoE(55V model)

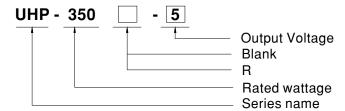
GTIN CODE

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

■ Description

UHP-350 series is a 350W single-output slim type power supply with 31mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V,48V and 55V. In addition to the high efficiency up to 94%, that the whole series operatesfrom $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$ under air convection without fan. UHP-350 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV BS EN/EN62368-1, BS EN/EN60335-1, UL 62368-1 and GB 4943.1 . UHP-350 seriesserves as a high performance power supply solution for various industrial applications.

■ Model Encoding



	Type	Description	Note
	Blank	Enclosed	In Stock
ſ	R	Built-in DC OK active signal and redundant function.	In Stock



MODEL		UHP-3503.3	UHP-3504.2	UHP-350□-5	UHP-35012	UHP-35015	UHP-35024	UHP-35036	UHP-35048	UHP-350	
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V	55V	
	RATED CURRENT	60A	60A	60A	29.2A	23.4A	14.6A	9.75A	7.3A	6.3A	
	RATED POWER	198W	252W	300W	350.4W	351W	350.4W	351W	350.4W	350W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p	240mVp-p	240mVp-p	300mVp-r	
OUTPUT	VOLTAGE ADJ. RANGE	3.2~3.5V	3.6~4.4V	4.5~5.5V	11.4~12.6V	14.3~15.8V	22.8~25.2V	34.2~37.8V	45.6~50.4V	45~58V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	2000ms, 80m	ns/230VAC; 30	000ms, 80ms/	115VAC at full	load;550ms/23	80VAC for 55V s	etup time			
	HOLD UP TIME (Typ.)	10ms/230VA	000ms, 80ms/230VAC; 3000ms, 80ms/115VAC at full load;550ms/230VAC for 55V setup time 0ms/230VAC								
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 3	70VDC							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)		0VAC PF≥	0.98/115VAC a	at full load						
INDUT	EFFICIENCY (Typ.) Note.7	88.5%	89%	90%	91%	92%	94%	94%	94%	94%	
INPUT	AC CURRENT (Typ.)	4A/115VAC	2A/230VA		3170	0270	0170	3470	J 70	3470	
	INRUSH CURRENT (Typ.)Note.8			60A/230VAC							
	LEAKAGE CURRENT	<0.75mA / 24		00A/230VAC							
	LLANAGE CORRENT										
	OVERLOAD	110~140% rated output power									
		Protection type: Hiccup mode, recovers automatically after fault condition is removed								00 001	
PROTECTION	OVER VOLTAGE	3.8 ~ 4.6V 4.62 ~ 5.46V 5.75 ~ 6.75V 13.2 ~ 15.6V 16.5 ~ 19.5V 26.4 ~ 31.2V 39.6 ~ 46.8V 52.8 ~ 62.4V 60 ~ 69V									
			Protection type :Shut down O/P voltage,re-power on to recover								
	OVER TEMPERATURE	Protection type: Shut down O/P voltage, recovers automatically after temperature goes down									
	DC OK SIGNAL(Optional)	Contact rating(max.):15Vdc/10mA resistive load									
FUNCTION	REDUNDANT(Optional)					ions, when one ash, and provi		t work , the and ty of system	other one will b	oe	
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C,	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03%/℃ (0	0~50℃)								
	VIBRATION	10 ~ 500Hz, 5	5G 10min./1cy	rcle, 60min. ea	ch along X, Y	Zaxes					
SAFETY &	SAFETY STANDARDS	BS EN/EN6	31558-2-16,	GB 4943.1,E	BSMI CNS1	5598-1,EÀC	TP TC 004,	V),BS EN/EN BIS IS13252 58.1/2.16,AS	2(Part1)/IEC		
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75	(except for 4.2V/15V/48V/55V) approved, Design refer to AS/NZS 61558.1/2.16, AS/NZS 62368.1 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC								
(Note.6)	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G,O/P-FG:1	00M Ohms/50	00VDC/25°C/	70%RH					
	EMC EMISSION		to BS EN/EN 5936, EAC T		'625.1,GB/T	9254.1,Class	B, BS EN/EN	N55014,BS E	N/EN61000-3	3-2,-3,	
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11;BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level ,EAC TP TC 020									
	MTBF	1791.2 K hrs	min. Telco	rdia SR-332 (Bellcore) ; 25	3.4K hrs min.	MIL-HDBK	-217F (25°C)			
OTHERS	DIMENSION	220*62*31mm (L*W*H)									
	PACKING	0.68 kg;16 pcs/11.88 kg/0.63CUFT									
NOTE	Ripple & noise are measured Tolerance :includes set up to Derating may be needed und The ambient temperature de The power supply is conside EMC directives. For guidance	0.68 kg;16 pcs/11.88 kg/0.63CUFT Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. Inder low input voltages. Please check the derating curve for more details. lerating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) lered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ce on how to perform these EMC tests, please refer to "EMI testing of component power supplies." w.meanwell.com//Upload/PDF/EMI_statement_en.pdf) efficiency slightly less than the Blank type.									

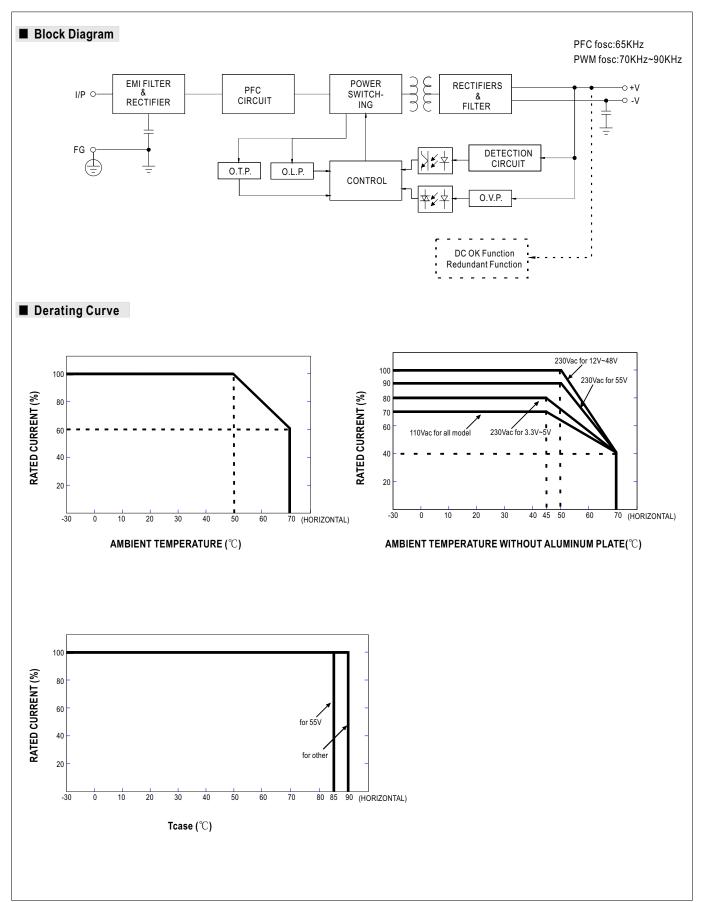
7. Only for Blank type, R type efficiency slightly less than the Blank type.

9. RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.

 $\begin{tabular}{ll} X Product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Disclaimer: For\ detailed\ information,\ please\ Product\ Disclaimer: For\ detailed\ Disclaimer: For\ detailed\$

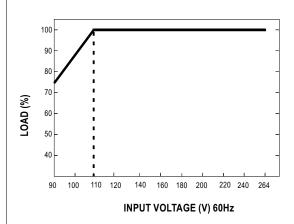
8. Inrush current parameter has 10% tolerance.







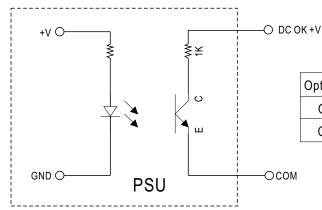
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

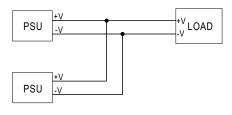
 $DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below. \\$



Optocoupler C-E Pin Conduction	PSU turns on	DC ok	
Optocoupler C-E Pin Open	PSU turns off	DC fail	
Optocoupler Rating(max.)	15Vdc/10mA re	sistive load	

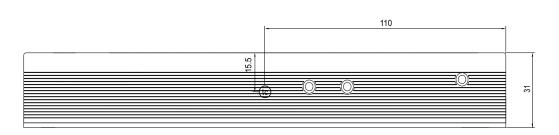
2.Redundant function

- (1) UHP-350R is built-in redundant function and can be connected 2 units in parallel .
- $(2) When in parallel operation the {\it maximum load should not be greater than the rated power of any PSU}.$





Mechanical Specification CASE NO.:232C Unit:mm Tolerance:±1



• (tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque	
1	AC/L	(550001))		
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm	
3	≐	B 0 2 0 0 1		

DC OK Connector(CN10):JST B2B-PH-K-S or requivalent

Pin No.	Assignment	Mating Housing	Terminal	
1	DC COM	JST PHR-2	JST SPH-002T-P0.5S	
2	DC OK +V	or requivalent	or requivalent	

DC Output Terminal (TB2,TB3) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	TB-HTP-200-40A	8Kgf-cm

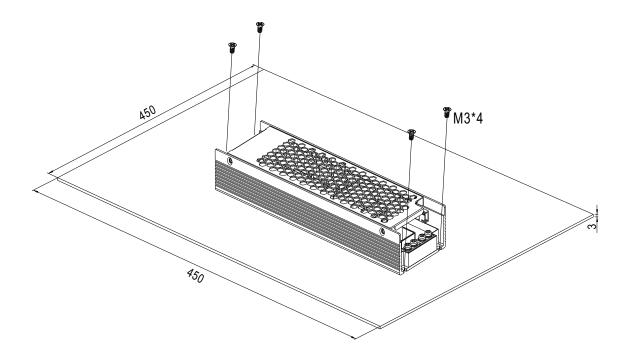


■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-350 series must be installed onto an aluminum plate (or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-350 series must be firmly mounted at the center of the aluminum plate.

unit:mm

































■ Features

- Slim and Low profile (31mm)
- Fanless design,500W convection
- Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- -30~+70°C working temperature
- Protections: Short circuit / Overload / Over voltage / Over temperature
- DC OK active signal and redundant function(option)
- Operating altitude up to 5000 meter (Note.5)
- · LED indicator for power on
- · 3 years warranty

■ Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- · LED display application
- Power Source Equipment for PoE(55V model)

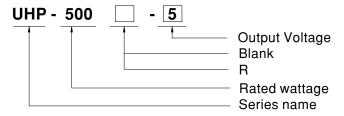
GTIN CODE

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

Description

UHP-500 series is a 500W single-output slim type power supply with 31mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 4.2V, 5V,12V,15V,24V,36V,48Vand 55V.In addition to the high efficiency up to 95%, that the whole series operates from $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$ under air convection without fan. UHP-500 has the complete protection functions and 5G anti-vibration capability;It is complied with the international safety regulations such as TUV BS EN/EN62368-1,BS EN/EN60335-1, UL 62368-1 and GB 4943.1. UHP-500 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding



Туре	Description	Note
Blank	Enclosed	In Stock
R	Buit-in DC OK active signal and redundant function.	By request

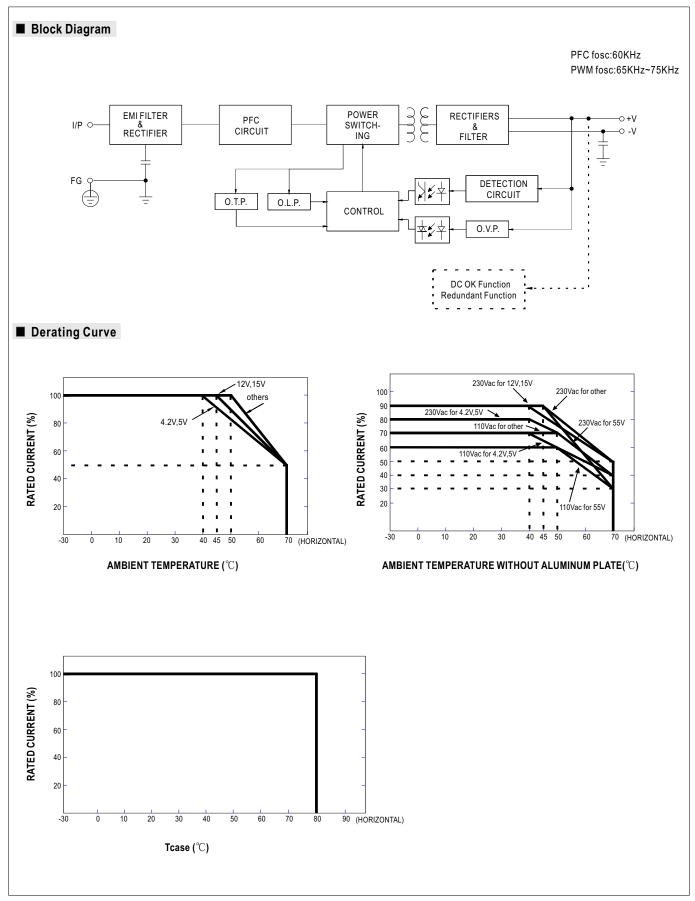


SPECIFICATION

MODEL		UHP-500 -4.2	UHP-5005	UHP-50012	UHP-50015	UHP-500 -24	UHP-50036	UHP-50048	UHP-5005		
	DC VOLTAGE	4.2V	5V	12V	15V	24V	36V	48V	55V		
	RATED CURRENT	80A	80A	41.7A	33.4A	20.9A	13.9A	10.45A	8.9A		
	RATED POWER	336W	400W	500.4W	501W	501.6W	500.4W	501.6W	500W		
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p	360mVp-p	360mVp-p	500mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE Note.7	3.6~4.4V	4.5~5.5V	11.4~12.6V	14.3~15.8V	22.8~25.2V	34.2~37.8V	45.6~50.4V	45~58V		
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%		
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1000ms, 50m	s/230VAC; 100	00ms,50ms/11	5VAC at full loa	d;550ms/230VA	C for 55V setup	time	<u>'</u>		
	HOLD UP TIME (Typ.)	12ms/230VA0	2 12ms/115	SVAC							
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 37	0VDC							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≥0.95/230	OVAC PF≥0	.98/115VAC at	full load						
INPUT	EFFICIENCY (Typ.)	89%	90%	94%	94%	94.5%	95%	95%	95%		
	AC CURRENT (Typ.)	4.85A/115VA	C 2.6A/230	OVAC							
	INRUSH CURRENT (Typ.)Note9										
	LEAKAGE CURRENT		40.75mA / 240VAC								
	OVER! OAR	110~140% rated output power									
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
ROTECTION		4.62 ~ 5.46V	5.75 ~ 6.75V	13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	39.6 ~46.8V	52.8 ~ 62.4V	60 ~ 69V		
NO I LO I I ON	OVER VOLTAGE	Protection type :Shut down O/P voltage,re-power on to recover									
	OVER TEMPERATURE	Protection type :Shut down O/P voltage, recovers automatically after temperature goes down									
	DC OK SIGNAL(Optional)	Contact rating(max.):30Vdc/1A resistive load									
FUNCTION	(For parallel connection protection:For parallel applications, when one PSU can not work, the another one will be									
	REDUNDANT(Optional)	automatically enabled. This can prevent the system crash, and provide the reliability of system									
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C,	10 ~ 95% RH r	non-condensin	g						
ĺ	TEMP. COEFFICIENT	±0.03%/℃ (0	~50°C)								
	VIBRATION	10 ~ 500Hz, 5	G 10min./1cyc	cle, 60min. eac	h along X, Y, Z	axes					
SAFETY &	SAFETY STANDARDS	UL 62368-1,TUV BS EN/EN62368-1,BS EN/EN60335-1(Except for 55V), BS EN/EN61558-1,BS EN/EN61558-2-16, GB 4943.1, BSMI CNS15598-1, EAC TP TC 004 approved;Design refer to AS/NZS 61558.1/2.16, AS/NZS 62368.1									
ЕМС	WITHSTAND VOLTAGE	I/P-O/P:3.75k	VAC I/P-FG	:2KVAC O/F	P-FG:1.25KVA	2					
Note.6)	ISOLATION RESISTANCE	I/P-O/P. I/P-F	G.O/P-FG:100	M Ohms/500V	 DC/25°C / 70%	RH					
	EMC EMISSION	Compliance t	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25°C / 70%RH Compliance to BS EN/EN55032,GB17625.1,GB/T 9254.1,Class B, BS EN/EN61000-3-2,-3, BSMI CNS15936, EAC TP TC 020								
EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11;BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN50082-2),BS EN/EN50082-2 (BS EN/EN50082-2),BS E					2-2),BS EN/EN	155035,					
	MTBF	1264.1 K hrs		lia SR-332 (Be	llcore); 167.6	K hrs min.	MIL-HDBK-217	'F (25°C)			
OTHERS	DIMENSION	232*81*31mn		,	, .			, ,			
	PACKING	0.905kg; 16p	cs/15.48kg/0.8	2CUFT							
NOTE	All parameters NOT special Ripple & noise are measure Tolerance :includes set up t Derating may be needed ur The ambient temperature d	ed at 20MHz of boolerance, line render low input vo	pandwidth by us gulation and loa ltages. Please o	ing a 12" twisted od regulation. check the deration	d pair-wire terming curve for more	nated with a 0.1 re details.	uf & 47uf paralle	el capacitor.			

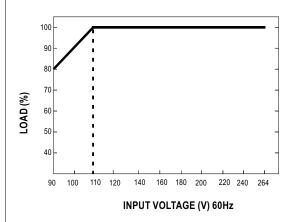
- 4. Defaulting that be freeded under low lipbut voltages. Please check the defaulting curve for more details.
 5. The ambient temperature derating of 3.5°C/1000m is needed for operating alltitude greater than 2000m(6500ft)
 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 7. Please refer to derating currve.
- 8. R type efficiency slightly less than the Blank type, according to the actual measurement.
- 9. Inrush current parameter has 10% tolerance.
- 10. RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







■ STATIC CHARACTERISTIC

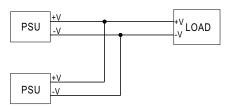


■ DC OK Relay Contact

Contact Close	PSU turns on/DC ok		
Contact Open	PSU turns off/DC fail		
Contact Rating(max.)	30Vdc/1A resistive load		

■ Redundant function

- (1) UHP-500R is built-in redundant function and can be connected 2 units in parallel .
- (2) When in parallel operation the maximum load should not be greater than the rated power of any PSU.



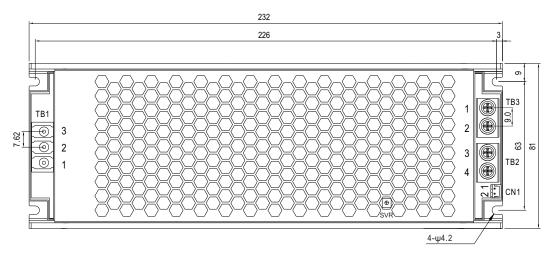


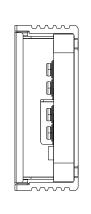
■ Mechanical Specification

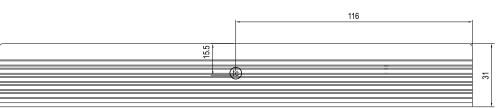
CASE NO.:233D

Unit:mm

Tolerance:±1







• (tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

	to input formula (121) pin from tool gillion								
Pin No.	Assignment	Terminal	Max mounting torque						
1	AC/L	(550001))							
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm						
3	÷	B0200 B 001							

DC Output Terminal (TB2,TB3) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	MEL-400-02P	8Kgf-cm

DC OK Connector(CN1):JST B2B-PH-K-S or requivalent

Pin No.	Assignment	Mating Housing	Terminal		
1	DC COM1	JST PHR-2	JST SPH-002T-P0.5S		
2	DC COM2	or requivalent	or requivalent		

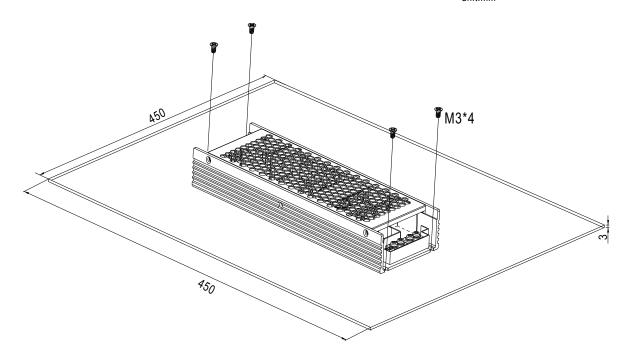


■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-500 series must be installed onto an aluminum plate (or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-500 series must be firmly mounted at the center of the aluminum plate.

unit:mm



















- Slim and Low profile (41mm)
- · Fanless and conduction-cooled design
- · Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- -30~+70°C working temperature
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · DC OK relay contact
- Operating altitude up to 5000 meter (Note.6)
- · LED indicator for power on
- · 3 years warranty











Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- · Household appliances
- Power Sourcing Equipment of PoE (48V model: DC O/P range 48~57.6V)

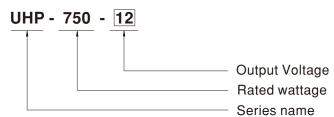
■ GTIN CODE

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

Description

UHP-750 series is a 750W single-output slim type power supply with 41mm of low profile design. Adopting the full range $90{\sim}264$ VAC input, the entire series provides an output voltage line of 12V, 24V,36V and 48V. In addition to the high efficiency up to 95%, that the whole series operates from -30°C ~ 70°C under air convection without fan. UHP-750 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV BS EN/EN62368-1 and UL62368-1. UHP-750 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding

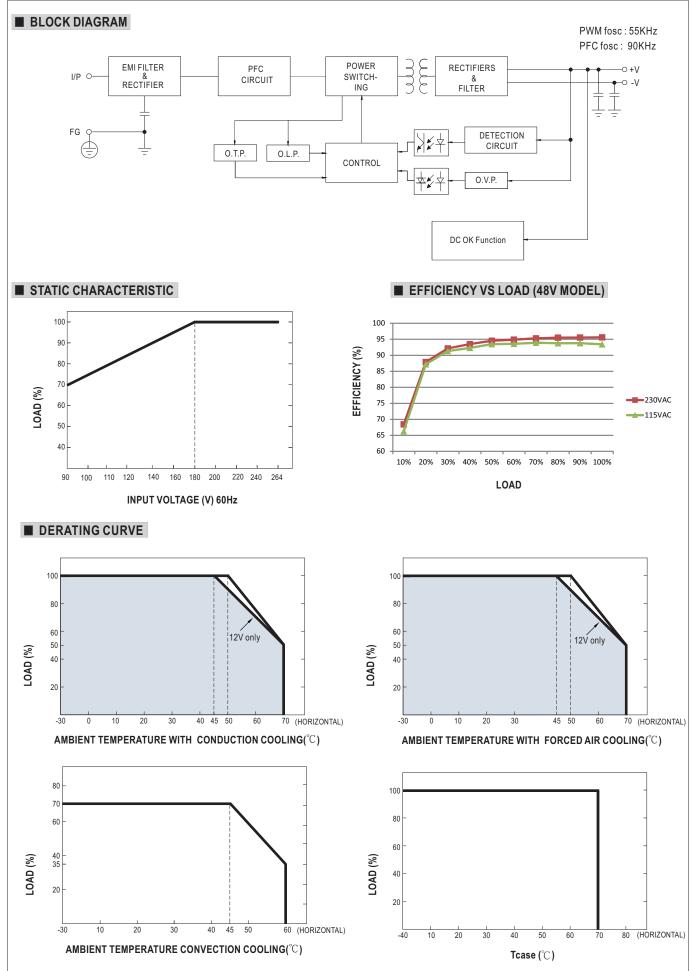




SPECIFICATION

MODEL		UHP-750-12	UHP-750-24	UHP-750-36	UHP-750-48				
	DC VOLTAGE	12V	24V	36V	48V				
	RATED CURRENT	60A	31.3A	20.9A	15.7A				
	RATED POWER	720W	751.2W	752.4W	753.6W				
	RIPPLE & NOISE (max.) Note.2	· ·	200mVp-p	250mVp-p	250mVp-p				
	VOLTAGE ADJ. RANGE	12~14.4V	24~28.8V	36~43.2V	48~57.6V				
OUTPUT									
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0% ±0.5%	±1.0% ±0.5%				
	LINE REGULATION	±0.5%	±0.5%		±0.5%				
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%				
	HOLD UP TIME (Typ.)	12ms/230VAC 12ms/115VAC							
		90 ~ 264VAC 127 ~ 370VD	C						
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.) Note.4	PF≥0.95/230VAC PF≥0.98/							
INPUT	EFFICIENCY (Typ.)	93.5%	95%	95%	95%				
	AC CURRENT (Typ.)	7.5A/115VAC 3.8A/230VAC							
	INRUSH CURRENT (Typ.)	Cold start 20A/115VAC 40A	/230VAC						
	LEAKAGE CURRENT	<0.75mA / 240VAC							
		105~125% rated output power							
	OVERLOAD	Protection type: Hiccup mode, re	ecovers automatically after fau	It condition is removed					
PROTECTION	OVER VOLTAGE	14.5 ~ 16V	29 ~ 33V	43.5 ~ 49V	59 ~ 66V				
	OVER VOLTAGE	Protection type: Shut down O/P	voltage, re-power on to recove	er	·				
	OVER TEMPERATURE	Protection type: Shut down O/P	stection type: Shut down O/P voltage, recovers automatically after temperature goes down						
FUNCTION	DC-OK SIGNAL	Contact rating(max.): 30Vdc/1	A resistive load						
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating	Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	$-40 \sim +85^{\circ}$ C, $10 \sim 95\%$ RH non-condensing							
	TEMP. COEFFICIENT	±0.03%°C (0 ~ 50°C)							
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL62368-1,TUV BS EN/EN62368-1, EAC TP TC 004 approved							
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC I/P-FG: 2KVAC O/P-FG: 1.25KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/ 70%RH							
	ISOLATION RESISTANCE	Parameter	Test Level / Note						
		Conducted	Standard BS EN/EN55032 (CISPR32)	Class B				
	EMC EMISSION	Radiated	BS EN/EN55032 (•	Class B				
	EMIC EMISSION	Harmonic Current	BS EN/EN61000-		Class A				
		Voltage Flicker	BS EN/EN61000-						
SAFETY &		BS EN/EN55035, BS EN/EN610		J-J					
EMC (Note.5)		•	Standard		Test Level / Note				
(Note.3)		Parameter		4.0					
		ESD	BS EN/EN61000-		Level 3, 8KV air ; Level 2, 4KV contact				
		Radiated	BS EN/EN61000-		Level 3				
	EMC IMMUNITY	EFT / Burst	BS EN/EN61000-		Level 3				
		Surge	BS EN/EN61000-		2KV/Line-Line 4KV/Line-Earth				
		Conducted	BS EN/EN61000-		Level 3				
		Magnetic Field	BS EN/EN61000-	4-8	Level 4				
		Voltage Dips and Interruptions	BS EN/EN61000-	4-11	>95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods				
	MTBF		R-332 (Bellcore); 104.9K hrs m	in. MIL-HDBK-217F (25°℃)				
OTHERS	DIMENSION	237*100*41mm (L*W*H)							
	PACKING	1.4kg; 10pcs/15kg/0.8CUFT							
NOTE	Ripple & noise are measure Tolerance :includes set up t Derating may be needed ur The power supply is conside a 360mm*360mm metal plate perform these EMC tests, perform these temperature descriptions.	te with 1mm of thickness. The f lease refer to "EMI testing of co v.meanwell.com//Upload/PDF/EN	sing a 12" twisted pair-wire tend regulation. check the derating curve and installed into a final equipme inal equipment must be re-component power supplies." MI_statement_en.pdf) less models and of 5°C/1000	minated with a 0.1uf & Static characteristics fo nt. All the EMC tests ar nfirmed that it still meet m with fan models for o	47uf parallel capacitor. or more details. re been executed by mounting the unit on the table to the second of th				





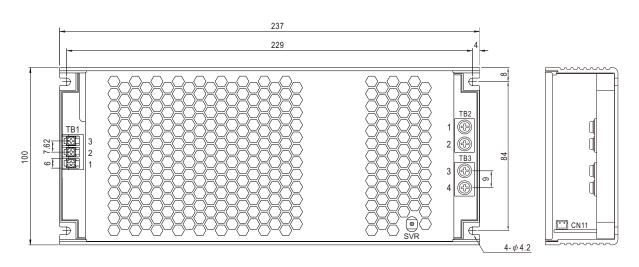


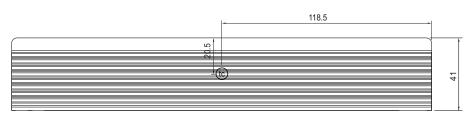
■ DC OK RELAY CONTACT

Contact Close	PSU turns on/DC ok
Contact Open	PSU turns off/DC fail
Contact Rating(max.)	30Vdc/1A resistive load

■ MECHANICAL SPECIFICATION

Case No.270B Unit:mm Tolerance:±1





AC Input Terminal (TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	DE04	
2	AC/N	DECA T21-EM10-03	9.2Kgf-cm
3	<u></u>		

DC Output Terminal (TB2,TB3) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1,2	+V	(MW)	
3,4	-V	NEL-400-02P	8Kgf-cm

DC OK Connector(CN11):JST S2B-PH-KL or requivalent

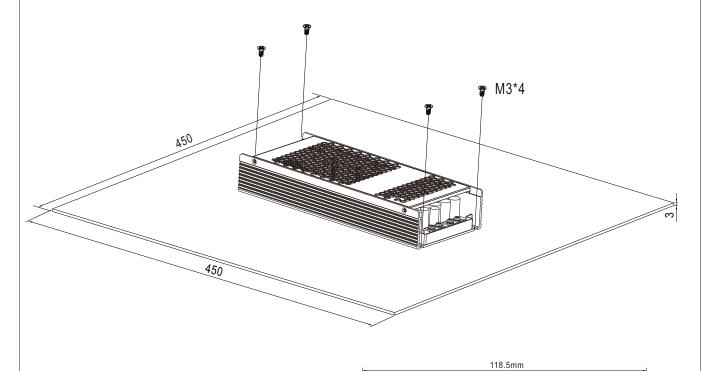
		,	
Pin No.	Assignment	Mating Housing	Terminal
1	DC COM1		JST SPH-002T-P0.5S
2	DC COM2	or requivalent	or requivalent

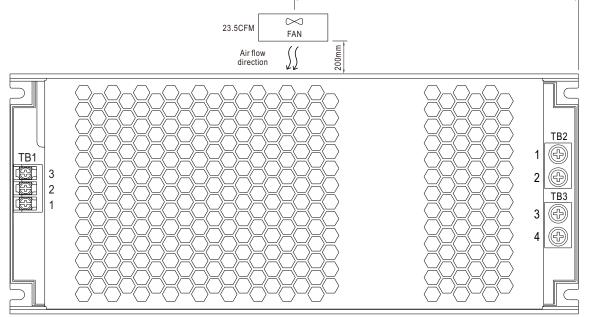


Operate with additional aluminum plate and fan

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-750 series can be installed onto an aluminum plate (or the cabinet of the same size) on the bottom or apply forced air cooled solution. The size of the suggested aluminum plate and configuration of fan are shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-750 series must be firmly mounted at the center of the aluminum plate.

unit:mm





■ INSTALLATION MANUAL

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

















- Slim and Low profile (41mm)
- · Fanless and conduction-cooled design
- · Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- -30~+70°C working temperature
- Output voltage and constant current level programmable
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in remote ON-OFF control
- DC OK active signal
- Operating altitude up to 5000 meter (Note.7)
- · LED indicator for power on
- 5 years warranty











Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- · Electronic instruments, equipment or apparatus
- Test and measurement instrument
- · Laser related machine
- · Charging related equipment
- Household appliances
- Power Sourcing Equipment of PoE (48V model: DC O/P range 48~57.6V)

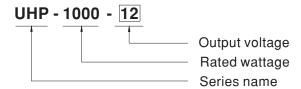
GTIN CODE

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

Description

UHP-1000 series is a 1000W single-output slim type power supply with 41mm of low profile design. Adopting the full range 90~264VAC input, the entire series provides an output voltage line of 12V,24V,36V and 48V. In addition to the high efficiency up to 96%, that the whole series operates from -30 $^{\circ}$ C ~ 70 $^{\circ}$ C under air convection without fan. UHP-1000 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV BS EN/EN62368-1, UL62368-1. UHP-1000 series serves as a high performance power supply solution for various industrial applications.

Model Encoding



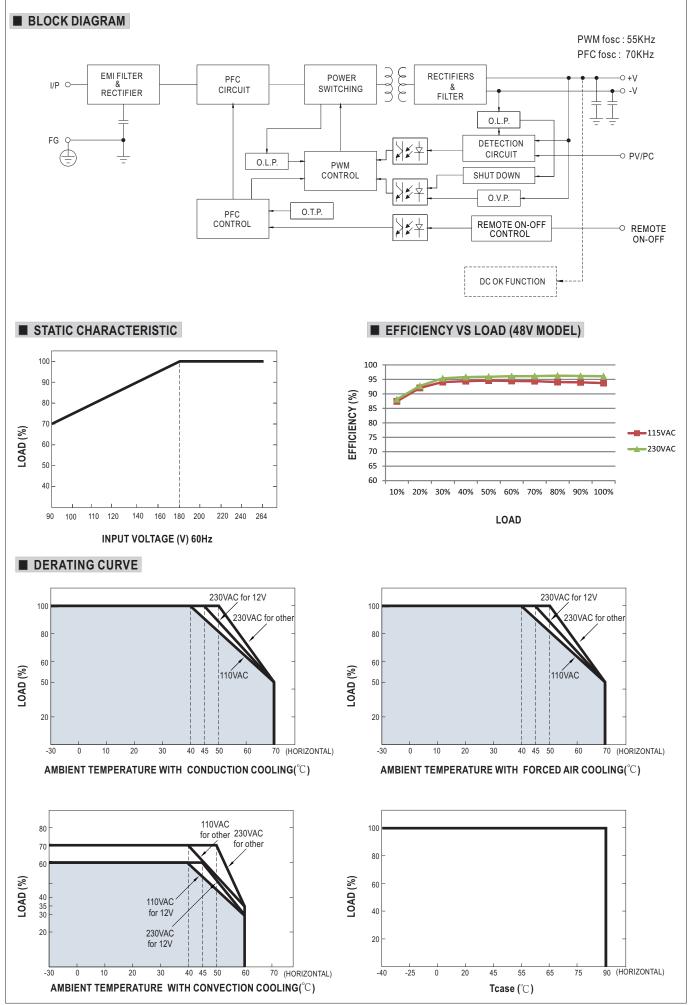


SPECIFICATION

MODEL		UHP-1000-12	UHP-1000-24	UHP-1000-36	UHP-1000-48			
	DC VOLTAGE	12V	24V	36V	48V			
	RATED CURRENT	80A	42A	28A	21A			
	RATED POWER	960W	1008W	1008W	1008W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	240mVp-p	240mVp-p	300mVp-p			
		By built-in potentiometer, SVR						
DUTPUT	VOLTAGE ADJ. RANGE	12~14.4V	24~28.8V	36~43.2V	48~57.6V			
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%			
			00ms,50ms/115VAC at full load					
	HOLD UP TIME (Typ.)	12ms/230VAC 12ms/115V						
	, ,	90 ~ 264VAC 250 ~ 370VD						
	FREQUENCY RANGE	47 ~ 63Hz						
		PF≥0.95/230VAC PF≥0.99/115VAC at full load						
NPUT	POWER FACTOR (Typ.) Note.4			05 50/	000/			
•	EFFICIENCY (Typ.)	94%	95%	95.5%	96%			
	AC CURRENT (Typ.)	10.1A/115VAC 5.3A/230VA						
	INRUSH CURRENT (Typ.)		./230VAC					
	LEAKAGE CURRENT	<0.75mA / 240VAC						
	OVERLOAD	105~120% rated output power						
	U.EILEAND	Protection type: Constant currer						
PROTECTION	SHORT CIRCUIT	Protection type: Constant curre	,					
	OVER VOLTAGE	14.5 ~ 16V	29 ~ 33V	43.5 ~ 49V	59 ~ 66V			
	OVER VOLIAGE	Protection type: Shut down O/P	voltage, re-power on to recove	er				
	OVER TEMPERATURE	Protection type: Shut down O/P	voltage, recovers automatical	ly after temperature go	es down			
	OUTPUT VOLTAGE PROGRAMMABLE(PV) Note 5	Adjustment of output voltage is allowable to 50 ~ 120% of nominal output voltage Please refer to the Function Manual.						
FUNCTION	OUTPUT CURRENT PROGRAMMABLE(PC) Note 5	Adjustment of constant current Please refer to the Function Ma	Adjustment of constant current level is allowable to 20 ~ 100% of rated current. Please refer to the Function Manual.					
	REMOTE ON/OFF CONTROL	Power ON: "Low" <0 ~ 0.5V or	Short circuit Power OFF:	"Hi" >2 ~ 5V or Open ci	rcuit			
	AUXILIARY POWER	12V@0.5A tolerance±10%, ripp	12V@0.5A tolerance±10%, ripple 150mVp-p					
	DC-OK SIGNAL	The TTL signal out, PSU turn on = 4.5 ~ 5.5V; PSU turn off = -0.1 ~ 0.5V. Please refer to the Function Manual.						
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle,	60min. each along X, Y, Z axes	6				
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN623	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved					
	WITHSTAND VOLTAGE	·	1/P-O/P: 3.75KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG: 100M (
		Parameter	Standard		Test Level / Note			
		Conducted	BS EN/EN55032	(CISPR32)	Class B			
	EMC EMISSION	Radiated	BS EN/EN55032	,	Class B			
	LING LINISSION	Harmonic Current	BS EN/EN61000		Class A			
AFETY &		Voltage Flicker	BS EN/EN61000					
MC lote.6)		-		-0-0				
Note.uj		BS EN/EN55035, BS EN/EN61			Took Lovel / Note			
		Parameter	Standard	4.0	Test Level / Note			
		ESD	BS EN/EN61000		Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	BS EN/EN61000		Level 3			
	EMC IMMUNITY	EFT / Burst	BS EN/EN61000		Level 3			
		Surge	BS EN/EN61000		2KV/Line-Line 4KV/Line-Earth			
		Conducted	BS EN/EN61000		Level 3			
		Magnetic Field	BS EN/EN61000		Level 4 >95% dip 0.5 periods, 30% dip 25 period			
	MTBF	Voltage Dips and Interruptions 662.3K hrs min. Telcordia SF	BS EN/EN61000 R-332 (Bellcore) ; 69.8K hrs mir		>95% interruptions 250 periods			
OTHERS		240*115*41mm (L*W*H)	t ooz (Benodie) , os.ok ins iiii	WILE-HOUK-Z17F (2007			
UIHEKS	DIMENSION	1.74kg; 8pcs/14.9kg/0.74CUFT	·					
	PACKING							

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltages. Please check the derating curve and Static characteristics for more details.
- 5. PV/PC functions when users do not use SVR.
- 6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 7. 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).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



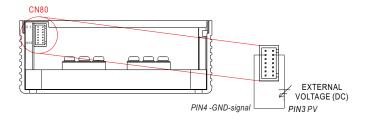


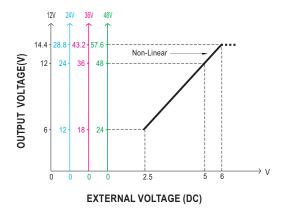


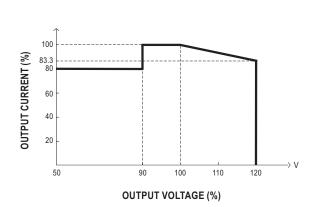
■ FUNCTION MANUAL

 $1. Output\ Voltage\ Programming\ (or,\ PV\ /\ remote\ voltage\ programming\ /\ remote\ adjust\ /\ margin\ programming\ /\ dynamic\ voltage\ trim)$

💥 In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed by applying EXTERNAL VOLTAGE.



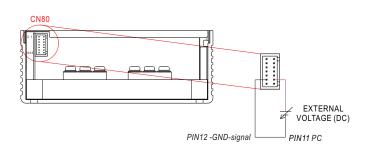


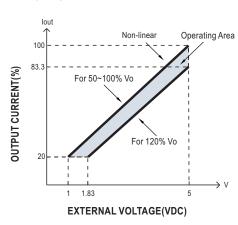


- % Caution: When this function is needed to activate, please keep PV(pin1) and PV-DIS(pin2) opened.

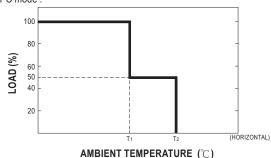
2. Output Current Programming (or, PC / remote current programming / dynamic current trim)

※ The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE.





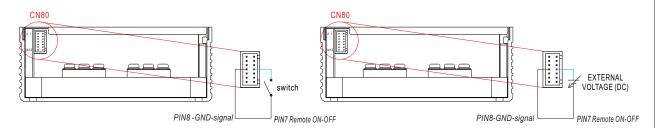
- X Caution: By factory default, the Output Current Programming is not activated, and VCCS(pin13) and PC-DIS(pin14) are shorted by connector. Whenever this function is not needed to activate, as assumed in other sections' diagrams, please keep VCCS(pin13) and PC-DIS(pin14) shorted; otherwise, the power supply will have no output.
- X Caution: When this function is needed to activate, please keep VCCS(pin13) and PV-DIS(pin14) opened.
- ※ Covered by over temperature protection, auto de-rating function works under operation in PC mode





3.Remote ON-OFF Control

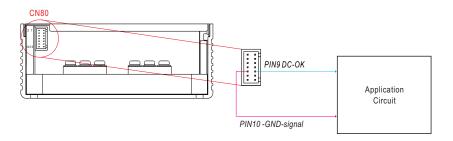
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



Remote ON-OFF	Power Supply Status
"Low" <0~0.5V or Short circuit	ON
"Hi" >2~5V or Open circuit	OFF

4.DC-OK Signal

DC-OK signal is a TTL level signal. The maximum sink current is 10mA and the maximum external voltage is 5.6V.



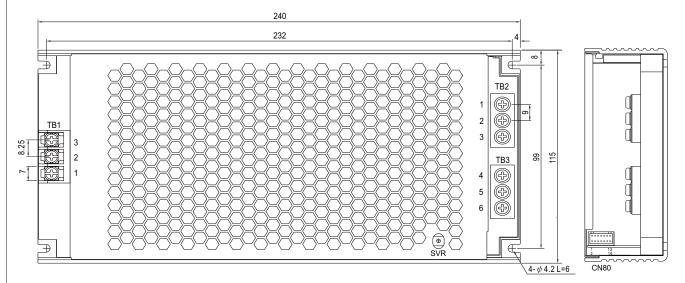
DC-OK signal	Power Supply Status
"Hi" >4.5~5.5V	ON
"Low" <-0.1~0.5V	OFF

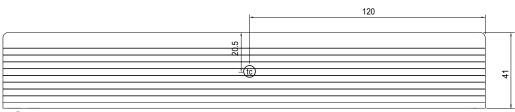


■ MECHANICAL SPECIFICATION

(Unit: mm , tolerance ± 0.5 mm)

Case No.:272A





• tc : Max. Case Temperature

AC Input Terminal(TB1) Pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	DE04	
2	AC/N	DECA T42-ES11-03 13.8Kgf-cm	13.8Kgf-cm
3	<u></u>		

DC Output Terminal (TB2,TB3) Pin NO. Assignment

2 0 0 atput 10 mm at (122,120) 1 m 1 0 1 1 100 19 mm on 1				
Pin No.	Assignment	Terminal	Max mounting torque	
1,2,3	+V	(MW)	8Kqf-cm	
4,5,6	-V	NÈL-400	okyi-ciii	



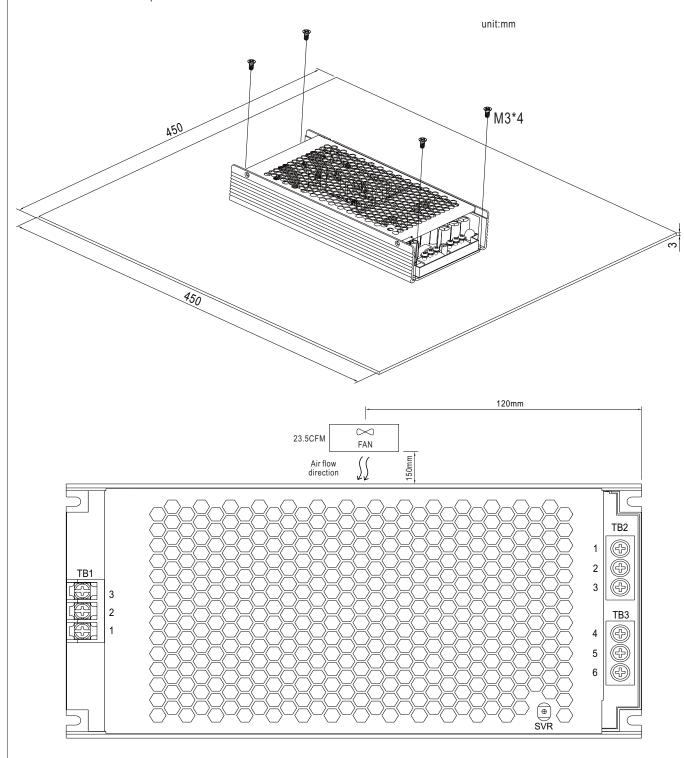
Mating Housing	HRS DF11-14DS or equivalent
Terminal	HRS DF11-**SC or equivalent

Pin No.	Function	Description	
1,3	PV	Connection for output voltage programming.	
2	PV-DIS	Short connecting between PV (pin1) and PV-DIS (pin2) if output voltage programming function is not activated.	
4,8,10,12	GND (Signal)	Negative output voltage signal.	
-	Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX (pin6).		
5	+12V-AUX	The maximum load current is 0.5A. This output is not controlled by "Remote ON-OFF".	
6	CND ALLY	Auxiliary voltage output GND.	
6 GND-AUX The signal return is isolated from the output terminals (+V & -V).		The signal return is isolated from the output terminals (+V & -V).	
7	Remote	The unit can turn the output ON/OFF by electrical signal or dry contact between Remote ON/OFF.	
/	ON-OFF Short (0 ~ 0.5V): Power ON; Open (2 ~ 5V): Power OFF; The maximum input voltage is 5.5V.		
		Low (-0.1 \sim 0.5V): When the Vout \leq 80% \pm 5%.	
9	DC-OK	High (4.5 ~ 5.5V): When Vout≧80 %±5%.	
The maximum sink current is 10mA and only for output.		The maximum sink current is 10mA and only for output.	
11	PC Connection for constant current level programming.		
13	Vccs	Positive output voltage signal.	
14	PC-DIS	Short connecting between Vccs (pin13) and PC-DIS (pin14) if output current programming function is not activated.	



Operate with additional aluminum plate and fan

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-1000 series can be installed onto an aluminum plate (or the cabinet of the same size) on the bottom or apply forced air cooled solution. The size of the suggested aluminum plate and configuration of fan are shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-1000 series must be firmly mounted at the center of the aluminum plate.



■ INSTALLATION MANUAL

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















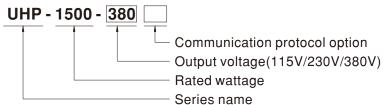


- High voltage output (115/230/380V)
- · Fanless and conduction-cooled design
- Slim and 1U Low profile (41mm)
- · Built-in active PFC function
- DC 12V/0.4A auxiliary power
- Output voltage and constant current level programmable(PV/PC)
- Protections: Short circuit / Over load / Over voltage / Over temperature
- · Built-in remote ON-OFF control and DC OK signal
- Operating altitude up to 2000 meter (E type Note.6, Blank/PM/CAN type Note.7)
- · LED indicator for power on
- Optional PMBus or CANBus protocol
- 5 years warranty

Description

UHP-1500 series is a 1500W single-output slim type power supply with 1U 41mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 115V/230V and 380V. In addition to the high efficiency up to 95.5%, that the whole series operates from -30° C $\sim 70^{\circ}$ C under air convection without fan. UHP-1500 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV BS EN/EN62368-1, UL62368-1. UHP-1500 series serves as a high performance power supply solution for various industrial and DC centralized bus applications.

■ Model Encoding



Туре	Communication Protocol	Note
Blank with programming PV/PC		In Stock
E	E DC 380V only without PV/PC	
PM	PMBus protocol with PV/PC	By request
CAN	CANBus protocol with PV/PC	By request

Note: E type without PV/PC and communication protocol.







Applications

- · Industrial automation machinery
- · Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- Test and measurement instrument
- · Laser related machine
- · Charging related equipment
- DC centralized bus(Lighting)

GTIN CODE

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



1500W Conduction Cooling with High Voltage Output

UHP-1500-HV series

MODEL		UHP-1500-380E				
	DC VOLTAGE(DEFAULT)	380V				
	RATED CURRENT (Max.)	3.95A				
	RATED POWER (Max.)(Note.7)					
	RIPPLE & NOISE (Max.) Note.2					
	TAIL TEE GROIDE (MAX.) Hote.2	By built-in potentiometer, SVR				
DUTPUT	VOLTAGE ADJ. RANGE	350~420V				
	VOLTAGE TOLERANCE Note.3					
	LINE REGULATION	±0.5%				
		±0.5%				
	LOAD REGULATION					
	SETUP, RISE TIME	1800ms, 60ms/230VAC at full load	20/40 15 11 1			
	HOLD UP TIME (Typ.)		30VAC at full load			
		00 ~ 264VAC				
	FREQUENCY RANGE	47 ~ 63Hz				
NPUT	POWER FACTOR (Typ.)	PF≥0.95/230VAC at full load				
NFUI	EFFICIENCY (Typ.)	95.5%				
	AC CURRENT (Typ.)	8A/230VAC				
	INRUSH CURRENT (Typ.)	Cold start 60A/230VAC				
	LEAKAGE CURRENT	<0.75mA / 240VAC				
	OVED LOAD	105~125% rated output power				
	OVER LOAD	Protection type : Constant current limit	ing, unit will shutdown after 2-5 sec, re-po	wer on to recover.		
	SHORT CIRCUIT	Constant current limiting, unit will shute	down after 2-5 sec, re-power on to recover			
PROTECTION	OVED VOLTAGE	428 ~ 460V				
	OVER VOLTAGE	Protection type :Shut down O/P voltage,re-power on to recover				
	OVER TEMPERATURE	Protection type :Shut down O/P voltage	e, recovers automatically after temperature	e goes down		
FUNCTION	REMOTE ON/OFF CONTROL	Power ON: Short circuit Power OFF: Open circuit				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
-111///DOLLMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH non-conder	nsina			
ENVIRONMENT	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL62368-1,TUV BS EN/EN62368-1, EAC TP TC 004 approved				
	WITHSTAND VOLTAGE Note 8		• • • • • • • • • • • • • • • • • • • •			
	ISOLATION RESISTANCE Note 8					
	ISOLATION RESISTANCE Note of	Parameter	Standard	Test Level / Note		
		Conducted		Class B		
	EMO EMICOION		BS EN/EN55032 (CISPR32)			
	EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A		
SAFETY &		Harmonic Current	BS EN/EN61000-3-2	Class A		
EMC		Voltage Flicker	BS EN/EN61000-3-3			
Note.6)		BS EN/EN61000-6-2		T=		
		Parameter	Standard	Test Level / Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 3		
	EMC IMMUNITY	EFT / Burst	BS EN/EN61000-4-4	Level 3		
		Surge	BS EN/EN61000-6-2	2KV/Line-Line 4KV/Line-Earth		
		Conducted	BS EN/EN61000-4-6	Level 3		
		Magnetic Field	BS EN/EN61000-4-8	Level 4		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods		
	MTBF	597.3K hrs min. Telcordia SR-332 (Bellcore); 63.3K hrs min. MIL-HDBK-2			
OTHERS	DIMENSION	290*140*41mm (L*W*H)	,,	· ,		
	PACKING	2.51kg; 6pcs/16.06kg/0.91CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance :includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltages. Please check the derating curve for more details. 5. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit		uf & 47uf parallel capacitor.			

- a 720mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."

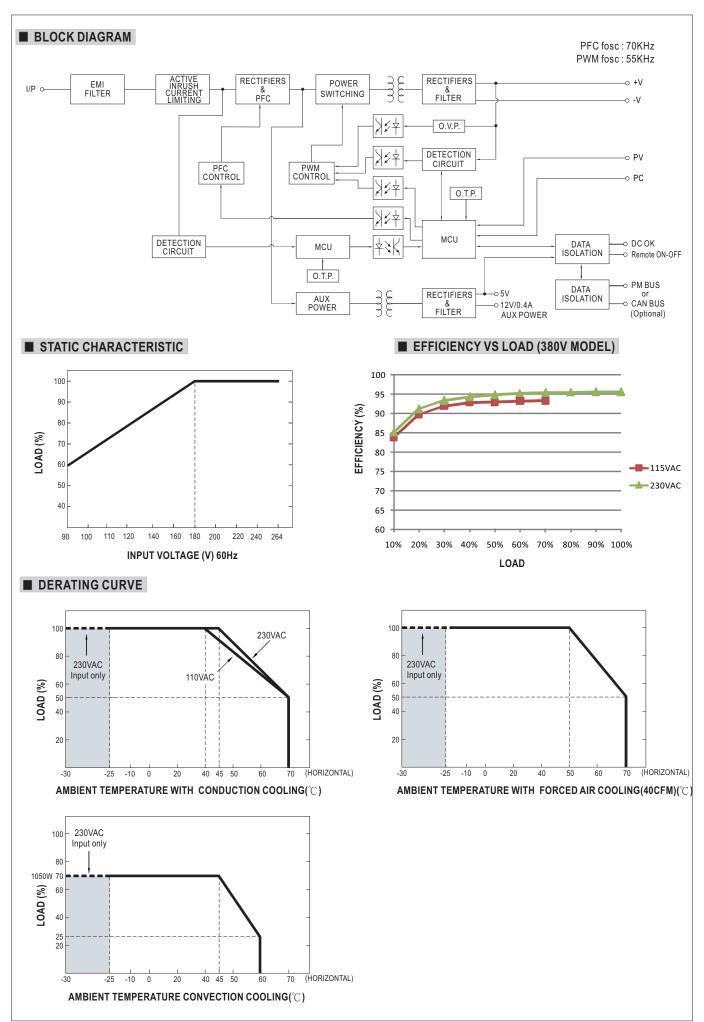
 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 6. 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).
- 7. Refer to derating curve.
- $\ensuremath{\mathbb{X}}$ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

UHP-1500-HV series

MODEL		UHP-1500-115	UHP-1500-230	UHP-1500-380		
		115V	230V	380V		
	DC VOLTAGE(DEFAULT) CURRENT (FACTORY DEFAULT)		6.52A	3.95A		
	RATED CURRENT (Max.)	13.05A	6.95A			
	,			4.5A		
	POWER (FACTORY DEFAULT)	*** *	1500W	1500W		
	RATED POWER (Max.)(Note.9) RIPPLE & NOISE (Max.) Note.2	1500.75W	1501.2W	1503W		
			2300mVp-p	3800mVp-p		
	FULL POWER VOLTAGE RANGE		216~260V	334~400V		
DUTPUT	VOLTAGE ADJ. RANGE	By built-in potentiometer, SVR 90~138V	170~260V			
	VOLTACE TOLERANCE N. C.	±1.0%	±1.0%	260~400V		
	VOLTAGE TOLERANCE Note.3	***	***	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1800ms, 60ms/230VAC at full load				
	HOLD UP TIME (Typ.)	16ms/230VAC at 75% load 10ms/230VAC at full load				
	VOLTAGE RANGE Note.4	90 ~ 264VAC 250 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
NPUT	POWER FACTOR (Typ.)	PF ≥ 0.95/230VAC at full load		I		
	EFFICIENCY (Typ.)	95%	95%	95.5%		
	AC CURRENT (Typ.)	8A/230VAC				
	INRUSH CURRENT (Typ.)	Cold start 60A/230VAC				
	LEAKAGE CURRENT	<0.75mA / 240VAC				
	OVER LOAD	105~125% rated output power				
	OVERLOAD	Protection type: Constant current limiting, un	· ·	ecover.		
ROTECTION	SHORT CIRCUIT	Constant current limiting, unit will shutdown a		T		
COLLOTION	OVER VOLTAGE	145 ~175V	273 ~ 325V	420 ~ 460V		
	0121110211102	Protection type :Shut down O/P voltage,re-power on to recover				
	OVER TEMPERATURE	Protection type :Shut down O/P voltage, recovers automatically after temperature goes down				
	OUTPUT VOLTAGE PROGRAMMABLE(PV) Note 5	Adjustment of output voltage is allowable to $50\sim120\%$ of nominal output voltage Please refer to the Function Manual.				
	OUTPUT CURRENT	Adjustment of constant current level is allowable to 20 ~ 100% of rated current. Please refer to the Function Manual.				
UNCTION	PROGRAMMABLE(PC) Note 5	Power ON: Short circuit Power OFF: Open circuit				
	REMOTE ON/OFF CONTROL	-				
	AUXILIARY POWER	12V @ 0.4A tolerance ±10%, ripple=150mVp-p				
	DC-OK SIGNAL	The TTL signal out, PSU turn on = 4.4 ~ 5.5V; PSU turn off = -0.5 ~ 0.5V. Please refer to the Function Manual.				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing				
NVIRONMENT	STORAGE TEMP., HUMIDITY	±0.03%°C (0~50°C)				
	TEMP. COEFFICIENT	±0.03%/ C (0 ~ 50 C) 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
	VIBRATION					
	SAFETY STANDARDS WITHSTAND VOLTAGE Note 8	UL62368-1,TUV BS EN/EN62368-1, EAC T				
		OVC III I/P-O/P:6KVDC I/P-FG:4KVDC				
	ISOLATION RESISTANCE Note 8	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VD0		Total and / Nata		
		Parameter	Standard DO EN/EN/ES022 (CIOPER22)	Test Level / Note		
	EMO EMICOION	Conducted	BS EN/EN55032 (CISPR32)	Class B		
	EMC EMISSION	Radiated	BS EN/EN/55032 (CISPR32)	Class A		
SAFETY &		Harmonic Current	BS EN/EN61000-3-2	Class A		
EMC		Voltage Flicker	BS EN/EN61000-3-3			
Note.6)		BS EN/EN61000-6-2	Oten dead	Total contribute		
		Parameter	Standard	Test Level / Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 3		
	EMC IMMUNITY	EFT / Burst	BS EN/EN61000-4-4	Level 3		
		Surge	BS EN/EN61000-6-2	2KV/Line-Line 4KV/Line-Earth		
		Conducted	BS EN/EN61000-4-6	Level 3		
		Magnetic Field	BS EN/EN61000-4-8	Level 4		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods		
	MTBF	,	re); 63.3K hrs min. MIL-HDBK-217F (25°C	<i>(</i>)		
OTHERS	DIMENSION	290*140*41mm (L*W*H)				
PACKING 2.51kg; 6pcs/16.06kg/0.91CUFT						
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. PV/PC functions when users do not use SVR. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 720mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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). Refer to derating curve. 					

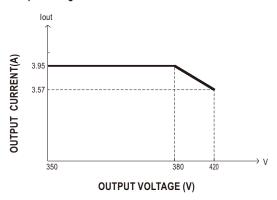






■ FUNCTION MANUAL (For E type)

1.Output Voltage



2.Remote ON-OFF Control

The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



Remote ON-OFF	Power Supply Status
Short circuit	ON
Open circuit	OFF

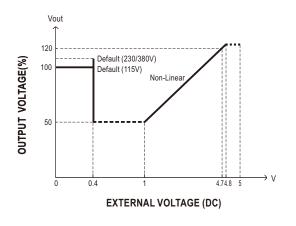


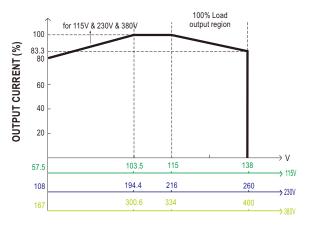
■ FUNCTION MANUAL (Blank/PM/CAN type)

1.Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

- ※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed to 50%∼120% by applying EXTERNAL VOLTAGE.
- * When PC/PV are used at the same time, PC is preferred





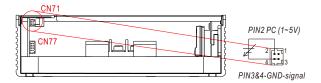


OUTPUT VOLTAGE

① The rated current should change with the Output Voltage Programming accordingly

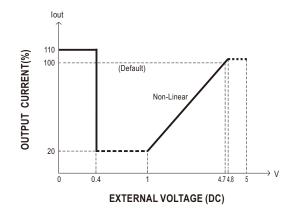
2. Constant Current Programming (or, PC / remote current programming / dynamic current trim)

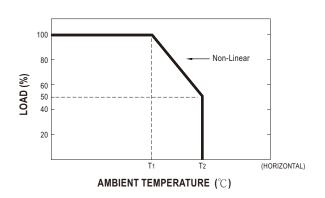
X The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE. In PC mode, the output current shall meet the output voltage / output current reduction curve.



© Covered by over temperature protection auto de-rating function works under operation either in PC mode or under control by communication protocol. T1(Typ.): Maximum ambient temperature of full load.

T2(Typ.): T1+5°€.

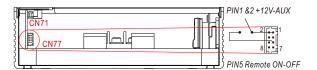




UHP-1500-HV series

3.Remote ON-OFF Control

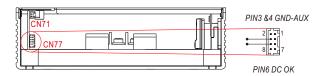
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



Remote ON-OFF	Power Supply Status
Short circuit	ON
Open circuit	OFF

4.DC-OK Signal

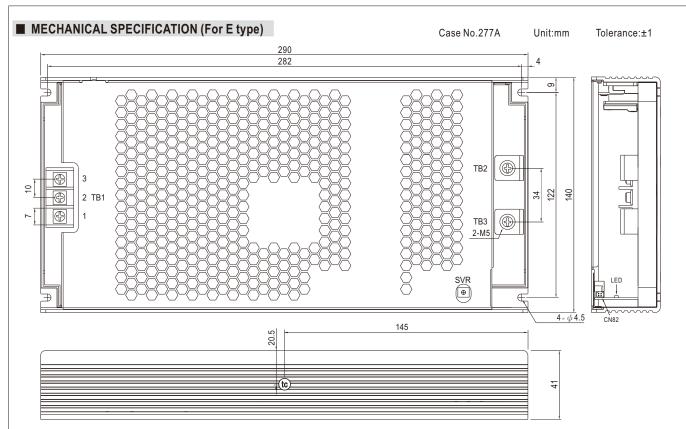
DC-OK signal is a TTL level signal. The maximum sink current is 10mA and the maximum external voltage is 5.6V.



DC-OK signal	Power Supply Status
"High" >4.4~5.5V	ON
"Low" <-0.5~0.5V	OFF

5.PMBus Communication Interface

UHP-1500 supports PMBus Rev. 1.1 with maximum 100KHz bus speed, allowing information reading, status monitoring, output trimming, etc. For details, please refer to the Function Manual.



 ${}^{\bullet}\text{(tc)}$: Max. Case Temperature <80 ${}^{\circ}\text{C}$ additional aluminum plate condition

AC Input Terminal (TB1) Pin NO. Assignment

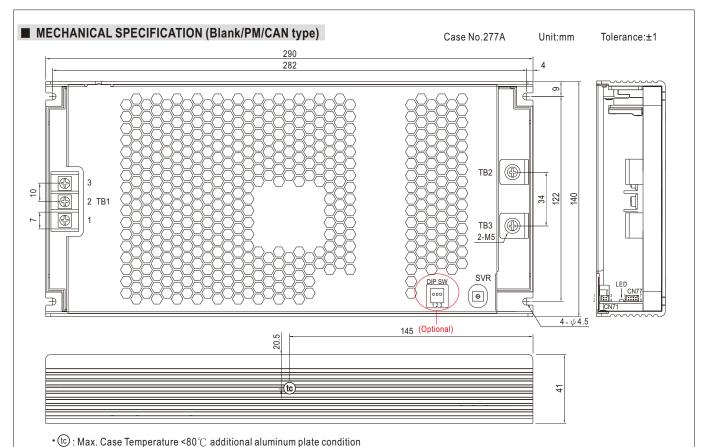
Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L		
2	AC/N	DG58S	18Kgf-cm
3	후		

DC Output Terminal (TB2, TB3) Pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
TB2	+V	(MW)	
TB3	-V	HS455A	8Kgf-cm

Pin No.	Function	Description	
1,2	Remote ON-OFF	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and GND	
3,4	GND	The unit can turn the output on/or r by thy contact between Nemote on/or r and onb	





AC Input Terminal (TB1) Pin NO. Assignment

	- '	,	
Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L		
2	AC/N	DG58S	18Kgf-cm
3	÷		

₩DIP SW:

Pin No.	Function	Description	
1	A0		
2	A1	PMBus / CANBus interface address switch.	
3	A2		

DC Output Terminal (TB2, TB3) Pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
TB2	+V	(MW)	
TB3	-V	HŠ455A	8Kgf-cm

※Control Pin No. Assignment(CN77): HRS DF11-08DP-2DS or equivalent

2	1
4	3

Mating Housing	HRS DF11-04DS or equivalent
Terminal	HRS DF11-**SC or equivalent



Mating Housing	HRS DF11-08DS or equivalent
Terminal	HRS DF11-**SC or equivalent

Pin No.	Function	Description	
1	PV	nnection for output voltage programming.(Note1)	
2	PC	onnection for constant current level programming.(Note.1)	
3,4	GND (Signal)	legative output voltage signal.	

*Control Pin No. Assignment(CN77): HRS DF11-04DP-2DS or equivalent

Control Pili No. Assignment(CN77). HRS DF 11-04DP-2DS of equivalent			
Pin No.	Function	Description	
1,2	+12V-AUX	Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX (pin3 & 4).	
1,2	1124-407	The maximum load current is 0.4A. This output is not controlled by "Remote ON-OFF".	
2.4	3.4 GND-AUX	Auxiliary voltage output GND.	
3.4		The signal return is isolated from the output terminals (+V & -V).	
5	5 Remote ON-OFF	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and 12-AUX.(Note.2)	
3		Short (10.8 ~ 13.2V): Power ON; Open(-0.5 ~ 0.5V): Power OFF; The maximum input voltage is 13.2V	
		Low (-0.5 ~ 0.5V): When the Vout \leq 77% \pm 6%.	
6	DC-OK	High (4.5 ~ 5.5V): When Vout \ge 80% \pm 6%.	
		The maximum sourcing current is 10mA and only for output.(Note.2)	
7 SCL For PMBus model: Serial Clock used in the PMBus interface. (Note.2) CANH For CANBus model: Data line used in CANBus interface. (Note.2)		For PMBus model: Serial Clock used in the PMBus interface. (Note.2)	
		For CANBus model: Data line used in CANBus interface. (Note.2)	
	SDA	For PMBus model: Serial Data used in the PMBus interface. (Note.2)	
8	CANL	For CANBus model: Data line used in CANBus interface. (Note.2)	

 $Note 1: Non-isolated \ signal, \ referenced \ to \ [GND(signal)].$

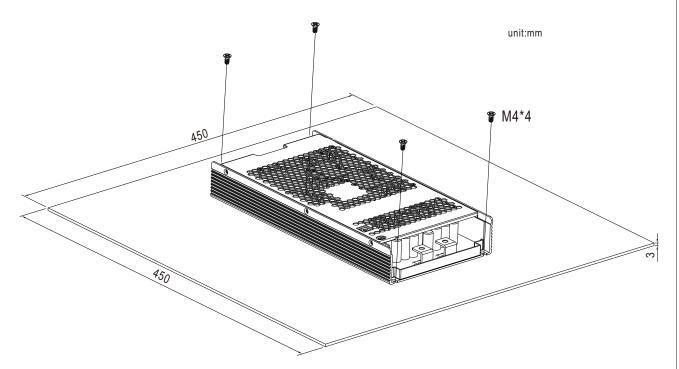
Note2: Isolated signal, referenced to GND-AUX.



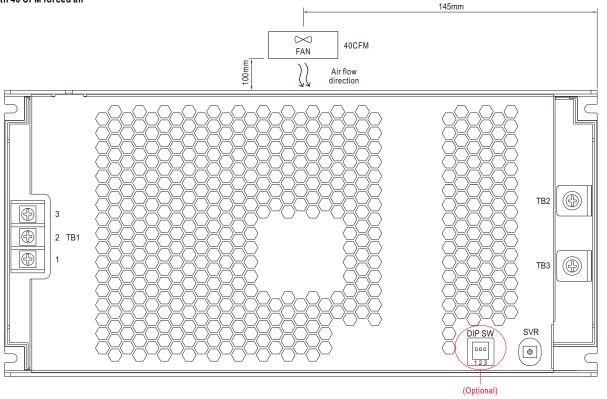
■ INSTALLATION

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-1500-HV series must be installed onto an aluminum plate (or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-1500-HV series must be firmly mounted at the center of the aluminum plate.



2. With 40 CFM forced air























- Slim and Low profile (41mm)
- Fanless and conduction-cooled design
- · Built-in active PFC function
- -30~+70°C working temperature
- · Output voltage and constant current level programmable
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in remote ON-OFF control
- · DC OK active signal
- Operating altitude up to 5000 meter (Note.8)
- · LED indicator for power on
- Optional PMBus or CANBus protocol
- 5 years warranty













Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- · Test and measurement instrument
- · Laser related machine
- · Charging related equipment
- · Household appliances
- Power Sourcing Equipment of PoE (48V model: DC O/P range 48~57.6V)

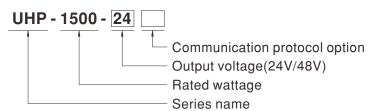
■ GTIN CODE

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

■ Description

UHP-1500 series is a 1500W single-output slim type power supply with 41mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 24V and 48V. In addition to the high efficiency up to 96%, that the whole series operates from -30° C $\sim 70^{\circ}$ C under air convection without fan. UHP-1500 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV BS EN/EN62368-1, UL62368-1. UHP-1500 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding



Type	Communication Protocol	Note
Blank	None	In Stock
PM	PMBus protocol	By request
CAN	CANBus protocol	By request



SPECIFICATION

	UHP-1500-24	UHP-1500	-48		
DC VOLTAGE	24V	48V			
RATED CURRENT	62.5A	31.5A			
	1500W				
	1 1	0001117			
VOLTAGE ADJ. RANGE		48~57 6V			
VOLTACE TOLEDANCE N. C. A.	* *				
· · · · · · · · · · · · · · · · · · ·	, ,				
() ()	,				
VOLTAGE RANGE Note.4					
FREQUENCY RANGE	47 ~ 63Hz				
POWER FACTOR (Typ.) Note.4	PF≥0.95/230VAC PF≥0.99/115V	AC at full load			
EFFICIENCY (Typ.)	95%	96%			
AC CURRENT (Typ.)	11A/115VAC 8A/230VAC	·			
INRUSH CURRENT (Typ.)	Cold start 30A/115VAC 60A/230VA	С			
LEAKAGE CURRENT	<0.75mA / 240VAC				
	105~125% rated current				
OVERLOAD		a shut down O/P voltage after 5 sec	After O/P voltage falls, re-nower on to recover		
SHUDT CIDCUIT	· · · · · · · · · · · · · · · · · · ·	<u> </u>			
SHOKT CIRCUIT	•		51.		
OVER VOLTAGE					
AVED TEMPERATURE		<u> </u>			
	,,	· · ·	-		
OUTPUT VOLTAGE	Adjustment of output voltage is allowable to 50 ~ 120% of nominal output voltage				
	Adjustment of constant current level is allowable to 20 ~ 100% of rated current.				
			ient.		
	Power ON: Short circuit Power OFF: Open circuit				
		<u>'</u>			
	The TTL signal out, PSU turn on = 4.4 ~ 5.5V; PSU turn off = -0.5 ~ 0.5V. Please refer to the Function Manual.				
	, ,	•			
	· · · · · · · · · · · · · · · · · · ·				
•	·	ilig			
TEMP. COEFFICIENT	, ,				
	* '	•			
SAFETY STANDARDS	UL62368-1, DEKRA BS EN/EN62368-1, EAC TP TC 004 approved				
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC C	D/P-FG:1.25KVAC			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/50	0VDC/25℃ / 70%RH			
	Parameter	Standard	Test Level / Note		
	Conducted	BS EN/EN55032 (CISPR32)	Class B		
EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A		
	Harmonic Current	BS EN/EN61000-3-2	Class A		
	Voltage Flicker	BS EN/EN61000-3-3			
	•				
	Parameter	Standard	Test Level / Note		
			Level 3, 8KV air ; Level 2, 4KV contact		
			Level 3		
			Level 3		
EMC IMMUNITY					
			2KV/Line-Line 4KV/Line-Earth		
			Level 3		
	Magnetic Field	BS EN/EN61000-4-8	Level 4		
	Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods		
MTBF	535.4K hrs min. Telcordia SR-332 (Be	ellcore); 56.7K hrs min. MIL-HDBI	<-217F (25°C)		
	290*140*41mm (L*W*H)				
DIMENSION	2.51kg; 6pcs/15.15kg/0.86CUFT				
	RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.4 HOLD UP TIME (Typ.) Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) Note.4 EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) INRUSH CURRENT OVERLOAD SHORT CIRCUIT OVER VOLTAGE PROGRAMMABLE(PV) Note 5 CUTPUT VOLTAGE PROGRAMMABLE(PC) Note 5 REMOTE ON/OFF CONTROL AUXILIARY POWER DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	DC VOLTAGE 24V RATED CURRENT 62.5A 8ATED POWER 1500W 240mVp-p 240mVp-p 242mVp-p 242mVp-p	DC VOLTAGE 24V		

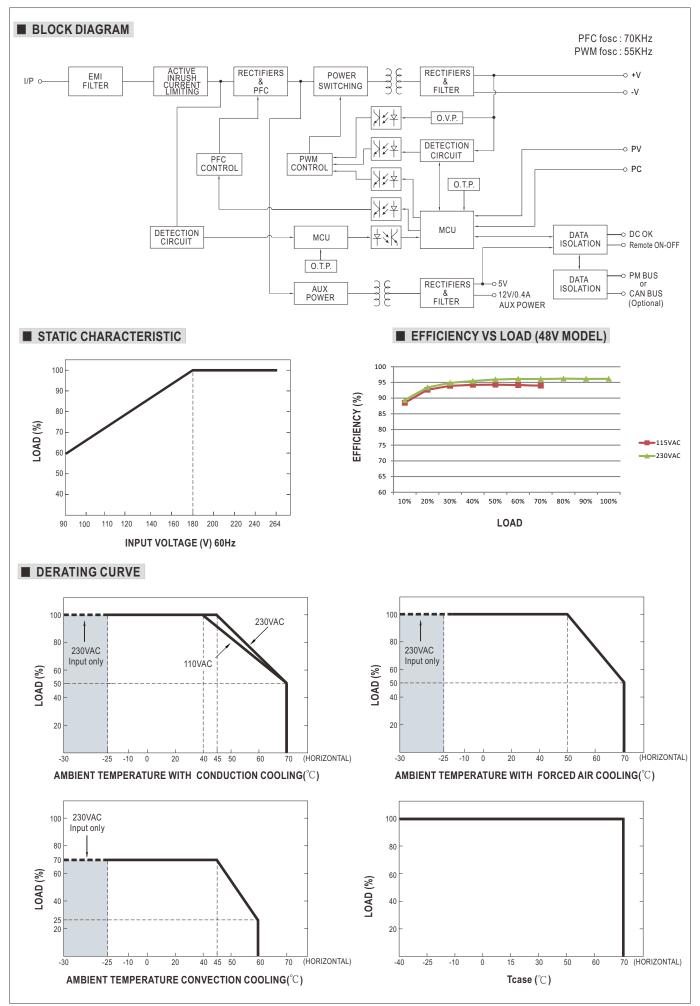
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 Tolerance includes set up tolerance, line regulation and load regulation.
 Derating may be needed under low input voltages. Please check the derating curve and Static characteristics for more details.

- 5. PV/PC functions when users do not use SVR.
- 6. Output will shut down after O/P voltage is below < 80% of Vset for 5 sec, re-power on to recover.
- 7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 720mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."

 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 8. 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).
- ** Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



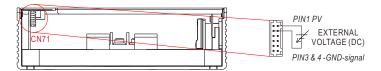


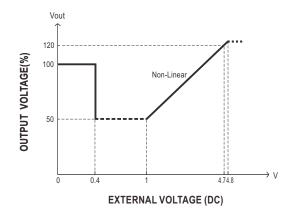


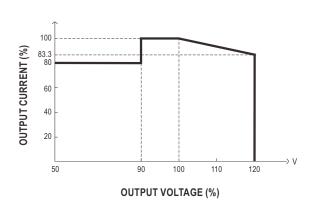
■ FUNCTION MANUAL

1.Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

iii In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed by applying EXTERNAL VOLTAGE.



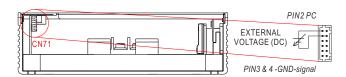




① The rated current should change with the Output Voltage Programming accordingly.

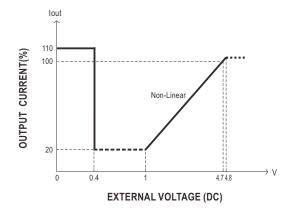
2. Constant Current Programming (or, PC / remote current programming / dynamic current trim)

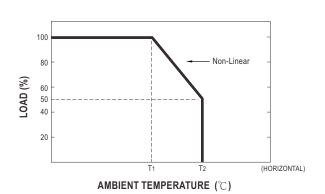
※ The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE.



- Output will shut down after O/P voltage is below < 80% of Vset for 5 sec, re-power on to recover.
- X Covered by over temperature protection, auto de-rating function works under operation either in PC mode or under control by communication protocol. T1(Typ.): Maximum ambient temperature of full load.

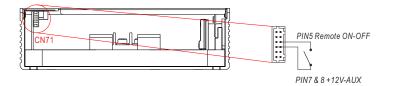
T2(Typ.): T1+5°€.





3.Remote ON-OFF Control

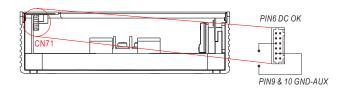
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



Remote ON-OFF	Power Supply Status
Short circuit	ON
Open circuit	OFF

4.DC-OK Signal

DC-OK signal is a TTL level signal. The maximum sink current is 10mA and the maximum external voltage is 5.6V.



DC-OK signal	Power Supply Status
"High" >4.4~5.5V	ON
"Low" <-0.5~0.5V	OFF

5.PMBus Communication Interface

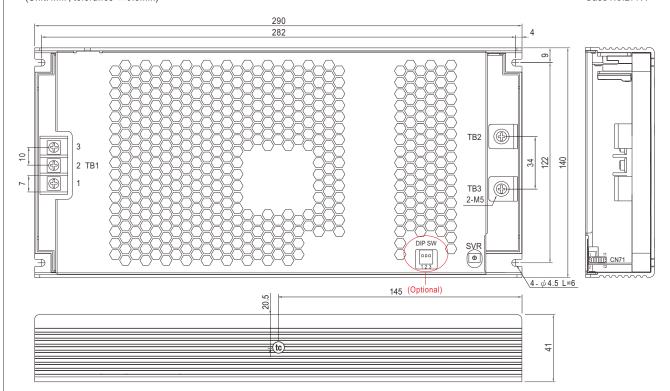
UHP-1500 supports PMBus Rev. 1.1 with maximum 100KHz bus speed, allowing information reading, status monitoring, output trimming, etc. For details, please refer to the Function Manual.

1500W Conduction Cooling with PFC Switching Supply UHP-1500 series

■ MECHANICAL SPECIFICATION

(Unit: mm , tolerance ± 0.5 mm)

Case No.277A



• (tc): Max. Case Temperature

AC Input Terminal (TB1) Pin NO. Assignment

	,	,	,
Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L		
2	AC/N	DECAT25	18Kgf-cm
3	÷		

DC Output Terminal (TB2.TB3) Pin NO. Assignment

Do output formman(182,186) i mi vo. Assignment				
Pin No.	Assignment	Terminal	Max mounting torque	
TB2	+V	(MW)		
TB3	-V	HS455A	8Kgf-cm	

₩DIP SW:

Pin No.	Function	Description
1	A0	
2	A1	PMBus / CANBus interface address switch.
3	A2	

 $\label{lem:control} \begin{tabular}{ll} \verb&\%Control Pin No. Assignment (CN71): HRS DF11-12DP-2DS or equivalent \\ \end{tabular}$



Mating Housing	HRS DF11-12DS or equivalent
Terminal	HRS DF11-**SC or equivalent

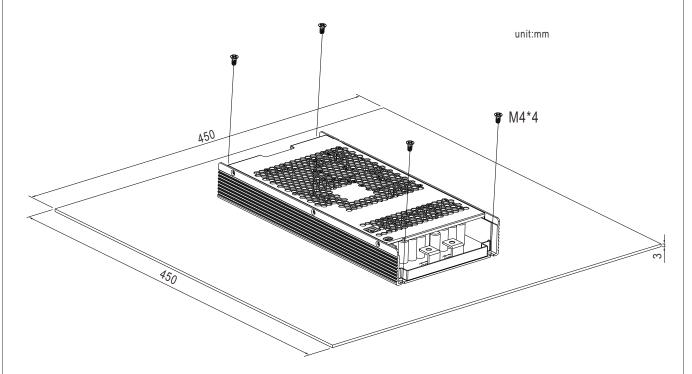
Pin No.	Function	Description		
1	PV	Connection for output voltage programming.(Note1)		
2	PC	Connection for constant current level programming.(Note.1)		
3,4	GND (Signal)	Negative output voltage signal.		
-	Remote	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and 12-AUX.(Note.2)		
5	ON-OFF	Short (10.8 \sim 13.2V) : Power ON ; Open(0 \sim 0.5V) : Power OFF ; The maximum input voltage is 13.2V		
		Low (-0.5 ~ 0.5V): When the Vout \leq 80% \pm 6%.		
6	DC-OK	High (4.4 ~ 5.5V): When Vout \ge 80% \pm 6%.		
		The maximum sourcing current is 10mA and only for output. (Note. 2)		
7,8	+12V-AUX	Auxiliary voltage output, 10.6~13.2V, referenced to GND-AUX (pin9 & 10).		
7,8		The maximum load current is 0.4A. This output is not controlled by "Remote ON-OFF".		
0.40	CND ALIV	Auxiliary voltage output GND.		
9,10	GND-AUX	The signal return is isolated from the output terminals (+V & -V).		
11	SDA	For PMBus model: Serial Data used in the PMBus interface. (Note.2)		
11	CANH	For CANBus model: Data line used in CANBus interface. (Note.2)		
10	SCL	For PMBus model: Serial Clock used in the PMBus interface. (Note.2)		
12	CANL	For CANBus model: Data line used in CANBus interface. (Note.2)		

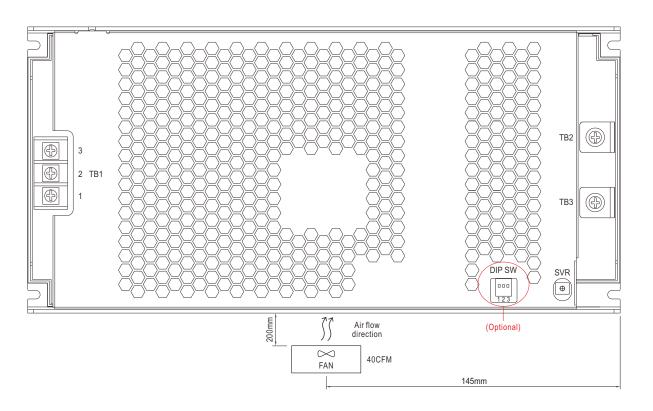
Note1: Non-isolated signal, referenced to [GND(signal)]. Note2: Isolated signal, referenced to GND-AUX.



Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-1500 series must be installed onto an aluminum plate (or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-1500 series must be firmly mounted at the center of the aluminum plate.





















Features

- Slim and Low profile (60mm)
- Fanless and conduction-cooled design
- · Built-in active PFC function
- -30~+70°C working temperature
- · Output voltage and constant current level programmable
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in remote ON-OFF control
- · DC OK active signal
- Operating altitude up to 5000 meter (Note.8)
- LED indicator for power on
- · Optional PMBus or CANBus protocol
- 5 years warranty











Applications

- · Industrial automation machinery
- Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- · Test and measurement instrument
- · Laser related machine
- Charging related equipment
- · Household appliances
- Power Sourcing Equipment of PoE (48V model: DC O/P range 48~57.6V)

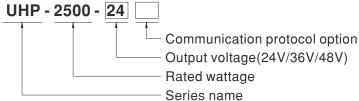
■ GTIN CODE

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

Description

UHP-2500 series is a 2500W single-output slim type power supply with 60mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 24V, 36V and 48V. In addition to the high efficiency up to 96%, that the whole series operates from $-30\%\sim70\%$ under air convection without fan. UHP-2500 has the complete protection functions and 2G anti-vibration capability; It is complied with the international safety regulations such as TUV BS EN/EN62368-1, UL62368-1. UHP-2500 series serves as a high performance power supply solution for various industrial applications.





Type	Communication Protocol	Note
Blank	None	In Stock
PM	PMBus protocol	By request
CAN	CANBus protocol	By request

2500W Conduction Cooling with PFC Switching Supply

SPECIFICATION

MODEL		UHP-2500-24	UHP-2500-36	UHP-2500-48		
	DC VOLTAGE	24V	36V	48V		
	RATED CURRENT	104.2A	69.4A	52.1A		
	RATED POWER	2500.8W	2498.4W	2500.8W		
	RIPPLE & NOISE (max.) Note.2	****	360mVp-p	480mVp-p		
	THE CHOICE (Max.) NOTC.	By built-in potentiometer, SVR	0001117 p	1001117 \$		
OUTPUT	VOLTAGE ADJ. RANGE	24~28.8V	36~43.2V	48~57.6V		
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%	±0.5%		
				±0.5 %		
	,	1800ms, 60ms/230VAC 1800ms, 60ms/115VAC at full load 10ms/230VAC at 75% load 10ms/230VAC at full load 10ms/230VAC at full load 10ms/230VAC at full load				
	()[/		30 VAC at full load , Tollis/113 VAC at 73 /	load Tollis/113VAC at full load		
		4 90 ~ 264VAC 250 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz 4 PF≥0.95/230VAC PF≥0.99/115VAC at full load				
NPUT	POWER FACTOR (Typ.) Note.4			000/		
• .	EFFICIENCY (Typ.)	95%	95.5%	96%		
	AC CURRENT (Typ.)	15A/115VAC 14.3A/230VAC	10			
	INRUSH CURRENT (Typ.)	Cold start 30A/115VAC 60A/230V	40			
	LEAKAGE CURRENT	<0.75mA / 240VAC				
	OVERLOAD	105 ~ 115% rated current				
PROTECTION	OVEREDAD			r O/P voltage falls, re-power on to recover		
	OVER VOLTAGE	30 ~ 35V	45 ~ 51V	60 ~ 67V		
	0121(1021)(02	Protection type :Shut down O/P voltage,	re-power on to recover			
	OVER TEMPERATURE	Protection type :Shut down O/P voltage, recovers automatically after temperature goes down				
	OUTPUT VOLTAGE PROGRAMMABLE(PV) Note 5	Adjustment of output voltage is allowable to 50 ~ 120% of nominal output voltage Please refer to the Function Manual.				
FUNCTION	OUTPUT CURRENT PROGRAMMABLE(PC) Note 5	Adjustment of constant current level is allowable to 20 ~ 100% of rated current. Please refer to the Function Manual.				
	REMOTE ON/OFF CONTROL	Power ON: Short circuit Power OFF: Open circuit				
	AUXILIARY POWER	12V@0.4A tolerance±10%, ripple 150mVp-p				
	DC-OK SIGNAL	The TTL signal out, PSU turn on = 4.5 ~ 5.5V; PSU turn off = -0.5 ~ 0.5V. Please refer to the Function Manual.				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL62368-1, Dekra seal BS EN/EN62368-1, EAC TP TC 004 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/50				
		Parameter	Standard	Test Level / Note		
		Conducted	BS EN/EN55032 (CISPR32)	Class B		
	EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A		
		Harmonic Current	BS EN/EN61000-3-2	Class A		
SAFETY &		Voltage Flicker	BS EN/EN61000-3-3			
EMC		BS EN/EN55035, BS EN/EN61000-6-2				
Note.7)		Parameter	Standard	Test Level / Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 3		
		EFT / Burst	BS EN/EN61000-4-4	Level 3		
	EMC IMMUNITY					
		Surge	BS EN/EN61000-6-2	2KV/Line-Line 4KV/Line-Earth		
		Conducted	BS EN/EN61000-4-6	Level 3		
		Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-4-8 BS EN/EN61000-4-11	Level 4 >95% dip 0.5 periods, 30% dip 25 period		
				>95% interruptions 250 periods		
	MTBF	· · · · · · · · · · · · · · · · · · ·	ellcore); 48.9K hrs min. MIL-HDBK-21	7F (25°C)		
2711522		L D 4 D 7 4 4 O 7 C C (I +\ I / +\ I I \				
OTHERS	DIMENSION PACKING	310*140*60mm (L*W*H) 3.5kg; 4pcs/15kg/1.76CUFT				

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

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

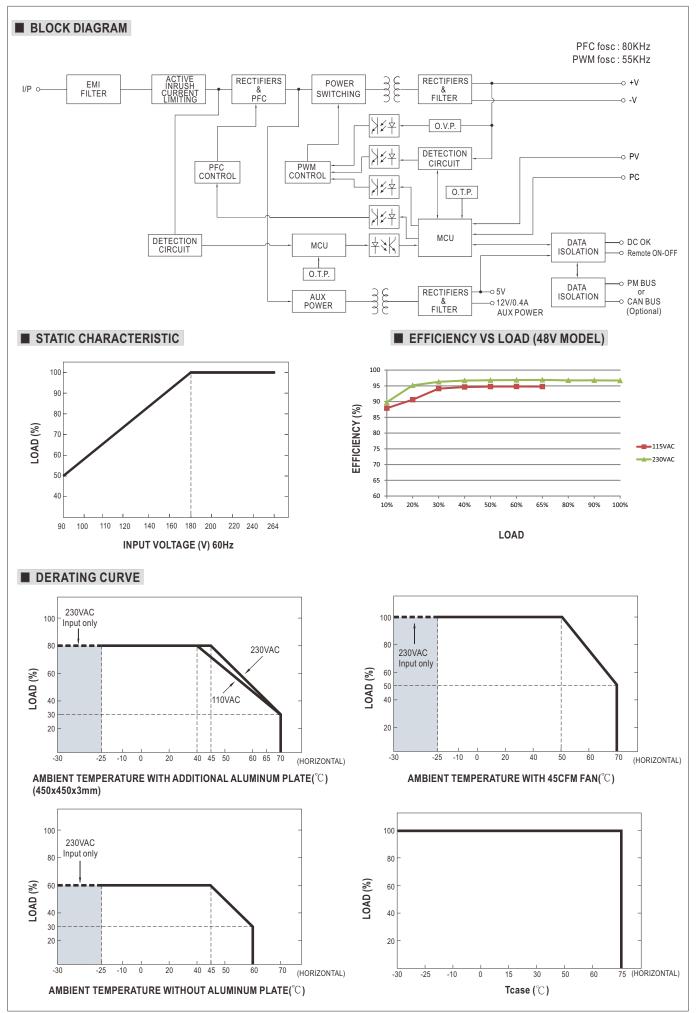
 4. Derating may be needed under low input voltages. Please check the derating curve and Static characteristics for more details.

- 5. PV/PC functions when users do not use SVR.
- 6. Output will shut down after O/P voltage is below < 80% of Vset for 5 sec, re-power on to recover.
- 7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 1100mm*650mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."

 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 8. 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).
- 9. Please contact MEAN WELL technical staff to confirm that the product and the water-cooling system match the relevant specifications.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



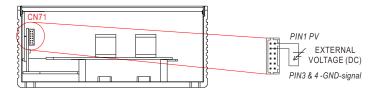


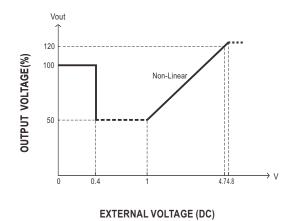


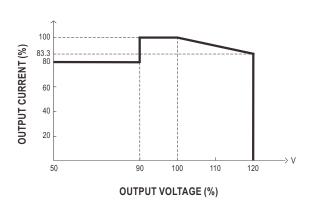
■ FUNCTION MANUAL

1.Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed by applying EXTERNAL VOLTAGE.



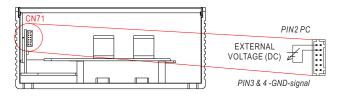




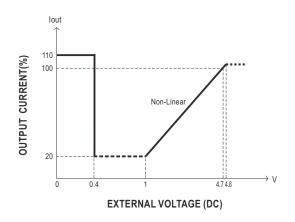
O The rated current should change with the Output Voltage Programming accordingly.

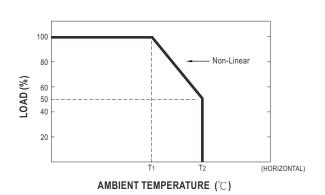
2. Constant Current Programming (or, PC / remote current programming / dynamic current trim)

※ The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE.



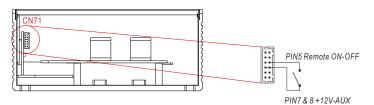
- \bigcirc Output will shut down after O/P voltage is below < 80% of Vset for 5 sec, re-power on to recover.
- Covered by over temperature protection, auto de-rating function works under operation either in PC mode or under control by communication protocol.
 T₁(Typ.): Maximum ambient temperature of full load.
 T₂(Typ.): T1+5°C.





3.Remote ON-OFF Control

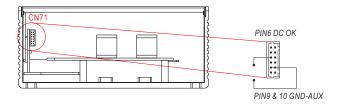
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



Remote ON-OFF	Power Supply Status	
Short circuit	ON	
Open circuit	OFF	

4.DC-OK Signal

DC-OK signal is a TTL level signal. The maximum sourcing current is 10mA.



DC-OK signal	Power Supply Status
"High" >4.5~5.5V	ON
"Low" <-0.5~0.5V	OFF

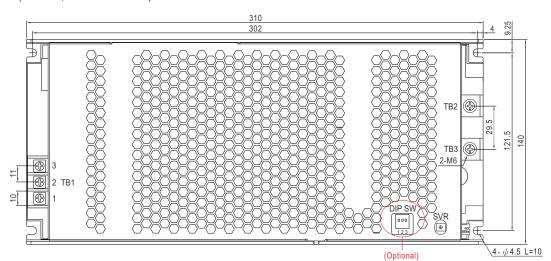
5.PMBus Communication Interface

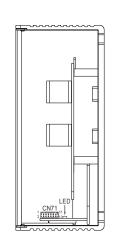
UHP-2500 supports PMBus Rev. 1.2 with maximum 100KHz bus speed, allowing information reading, status monitoring, output trimming, etc. For details, please refer to the Function Manual.



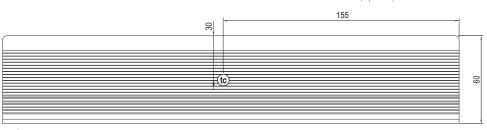
■ MECHANICAL SPECIFICATION

(Unit: mm , tolerance ± 0.5 mm)





Case No.276A



• tc : Max. Case Temperature

AC Input Terminal(TB1) Pin NO. Assignment

	,	,	,
Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L		
2	AC/N	DECAT36	18Kgf-cm
3	÷		

DC Output Terminal (TB2,TB3) Pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
TB2	+V	(MW)	
TB3	-V	HS147	8Kgf-cm

※DIP SW(Optional):

, ,	•	
Pin No.	Function	Description
1	A0	
2	A1	PMBus / CANBus interface address switch.
3	A2	

% Control Pin No. Assignment(CN71): HRS DF11-12DP-2DS or equivalent



Mating Housing	HRS DF11-12DS or equivalent
Maurig Housing	TING DI TI-12DG di equivalent
Terminal	HRS DF11-**SC or equivalent

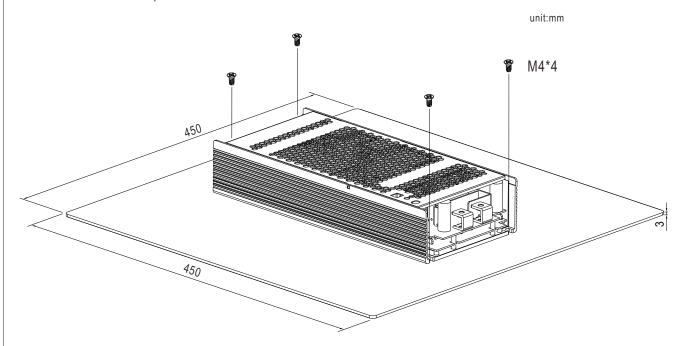
Pin No.	Function	Description		
1	PV	Connection for output voltage programming.(Note1)		
2	PC	Connection for constant current level programming.(Note.1)		
3,4	GND (Signal)	Negative output voltage signal.		
5	Remote	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and 12-AUX.(Note.2)		
5	ON-OFF	Short (10.8 ~ 13.2V): Power ON; Open(-0.5 ~ 0.5V): Power OFF; The maximum input voltage is 13.2V		
		Low (-0.5 ~ 0.5V): When the Vout \leq 77% \pm 6%.		
6	DC-OK	High (4.5 ~ 5.5V): When Vout≧80%±6%.		
		The maximum sourcing current is 10mA and only for output.(Note.2)		
7,8	+12V-AUX	Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX (pin9 & 10).		
7,0		The maximum load current is 0.4A. This output is not controlled by "Remote ON-OFF".		
0.10	GND-AUX	Auxiliary voltage output GND.		
9,10		The signal return is isolated from the output terminals (+V & -V).		
11	SDA	For PMBus model: Serial Data used in the PMBus interface. (Note.2)		
	CANH	For CANBus model: Data line used in CANBus interface. (Note.2)		
12	SCL	For PMBus model: Serial Clock used in the PMBus interface. (Note.2)		
12	CANL	For CANBus model: Data line used in CANBus interface. (Note.2)		

Note1: Non-isolated signal, referenced to [GND(signal)]. Note2: Isolated signal, referenced to GND-AUX.



1. Operate with additional aluminum plate and fan

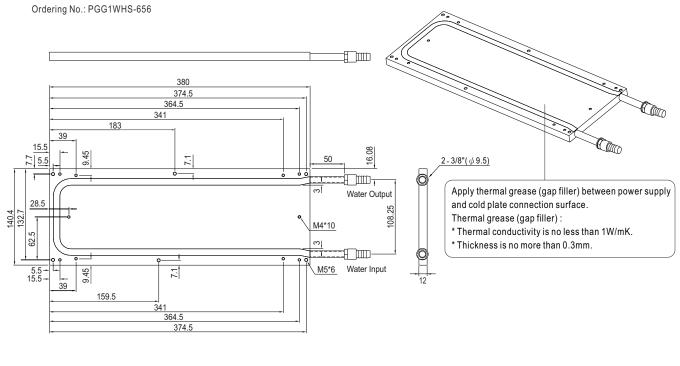
In order to meet the "Derating Curve" and the "Static Characteristics", UHP-2500 series can be installed onto an aluminum plate(or the cabinet of the same size) on the bottom or apply forced air cooled solution. The size of the suggested aluminum plate and configuration of fan are shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-2500 series must be firmly mounted at the center of the aluminum plate.



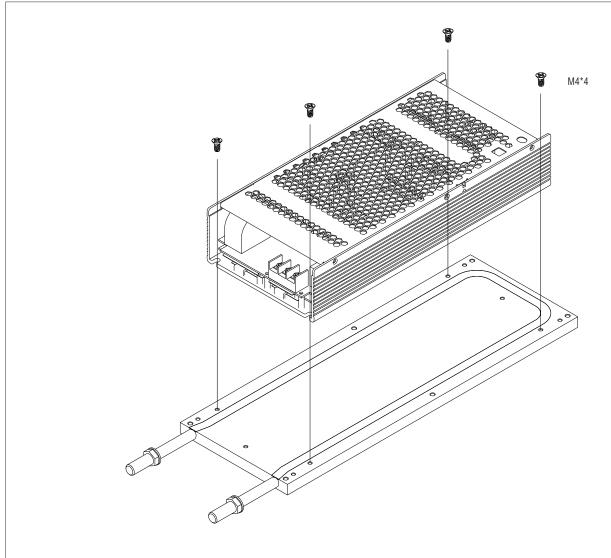
2. Suitable for conduction cooling

Inlet temperature: 25° C Flow rate (minimum): 1 LPM

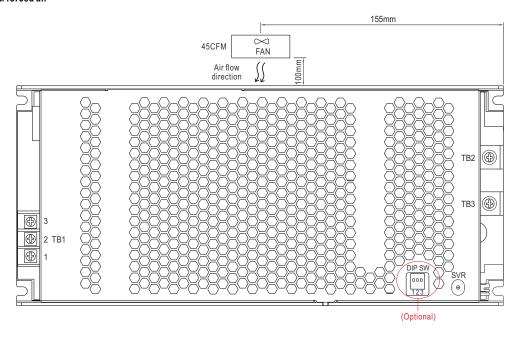
If optional cold plate is in need, please contact MEAN WELL for details.







3. With 45 CFM forced air



4. Condensation - Safe operating area.

