



Features

- Universal AC input / Full range
- Ultra-miniature size, light weight
- Protections:
 - Short circuit / Overload / Over voltage / Over temp.
- No load power consumption <0.5W (<0.75W for 20W models)
- Isolation class II (5~15W)
- On-board type version available for 20W (optional)
- Low leakage current < 200uA (20W)
- Cooling by free air convection
- Medical safety approved
- Meet industrial, IT safety requirements
- 100% full load burn-in test
- 3 years warranty



NFM-05 / 10 / 15 Series

	5W	10W	15W
A	1.77" (45mm)	1.77" (45mm)	1.89" (48mm)
B	0.689" (17.5mm)	0.689" (17.5mm)	0.788" (20mm)
C	0.21" (5.33mm)	0.22" (5.5mm)	0.157" (4mm)
D	1.85" (47mm)	2.13" (54mm)	2.441" (62mm)
E	2.28" (57.9mm)	2.56" (65mm)	2.75" (69.85mm)
F	0.491" (12.47mm)	0.491" (12.47mm)	0.492" (12.5mm)
G	0.789" (20.04mm)	0.789" (20.04mm)	0.906" (23.01mm)
H	0.196" (5mm)	0.196" (5mm)	0.157" (4mm)
I	0.75" (19.1mm)	0.87" (22mm)	0.87" (22mm)

NFM-20 Series

General Specification

AC input voltage range 85~264VAC; 120~370VDC
 Frequency range 47-440Hz
 AC inrush current (max.) Cold start, 25A at 115VAC, 45A at 230VAC
 (NFM-15: 30A at 115VAC, 50A at 230VAC)
 (NFM-20: 30A at 115VAC, 65A at 230VAC)
 DC adjustment range $\pm 10\%$ rated output voltage
 Overload protection >105% hiccup mode, auto recovery
 Over voltage protection 115%~135% rated output voltage, shut off,
 AC recycle to re-start
 Over temp. protection U1,Tj: 140~160°C, power shutdown, recovers
 automatically after temperature goes down
 Setup, rise, hold up time 1000ms, 20ms, 100ms @ 230VAC
 (NFM-20: 500ms, 20ms, 50ms @ 230VAC)
 Withstand voltage I/P-O/P: 4.0KVAC, 1 minute
 Working temperature -20°C~70°C (refer to output derating curve)
 Safety standards UL60601-1, TUV EN60601-1,
 UL60950-1 (NFM-15) approved
 EMC standards EN55011, EN55022 Class B, EN61000-3-2,3
 EN61000-4-2,3,4,5,6,8,11, ENV50204,
 EN55024, EN60601-1-2, EN61204-3 Medical
 level, criteria A
 Connection 4 industrial pins for 5~15W
 3P / 4P / 3.96mm pitch, Molex 41791-03/04
 for 20W
 Packing 0.03kg ; 120pcs / 4.6kg / 0.97CUFT(NFM-05)
 0.045kg ; 120pcs / 6.4kg / 0.97CUFT(NFM-10)
 0.065kg ; 120pcs / 8.8kg / 0.97CUFT(NFM-15)
 0.09kg ; 105pcs / 10.5kg / 0.97CUFT(NFM-20)



Energy Saving —

We care about energy saving. This logo represents that this model has "low no load power consumption"!

NFM-05 Series

Model No.	Output	Tol.	R&N	Effi.
NFM-05-3.3	3.3V, 0~1.25A	$\pm 2\%$	80mV	67%
NFM-05-5	5V, 0~1.00A	$\pm 2\%$	80mV	71%
NFM-05-12	12V, 0~0.42A	$\pm 1\%$	150mV	73%
NFM-05-15	15V, 0~0.33A	$\pm 1\%$	150mV	74%
NFM-05-24	24V, 0~0.23A	$\pm 1\%$	240mV	76%

NFM-10 Series

Model No.	Output	Tol.	R&N	Effi.
NFM-10-3.3	3.3V, 0~2.50A	$\pm 2\%$	80mV	66%
NFM-10-5	5V, 0~2.00A	$\pm 2\%$	80mV	74%
NFM-10-12	12V, 0~0.85A	$\pm 1\%$	150mV	78%
NFM-10-15	15V, 0~0.67A	$\pm 1\%$	150mV	79%
NFM-10-24	24V, 0~0.42A	$\pm 1\%$	240mV	79%

NFM-15 Series

Model No.	Output	Tol.	R&N	Effi.
NFM-15-3.3	3.3V, 0~3.50A	$\pm 2\%$	80mV	73%
NFM-15-5	5V, 0~3.00A	$\pm 2\%$	80mV	76%
NFM-15-12	12V, 0~1.25A	$\pm 1\%$	150mV	78%
NFM-15-15	15V, 0~1.00A	$\pm 1\%$	150mV	79%
NFM-15-24	24V, 0~0.63A	$\pm 1\%$	240mV	81%

NFM-20 Series

Model No.	Output	Tol.	R&N	Effi.
NFM-20-3.3	3.3V, 0~4.50A	$\pm 2\%$	80mV	71%
NFM-20-5	5V, 0~4.40A	$\pm 2\%$	80mV	75%
NFM-20-12	12V, 0~1.80A	$\pm 1\%$	150mV	81%
NFM-20-15	15V, 0~1.40A	$\pm 1\%$	150mV	83%
NFM-20-24	24V, 0~0.92A	$\pm 1\%$	240mV	84%