



Блоки питания Open Frame серии NFM

Технические характеристики



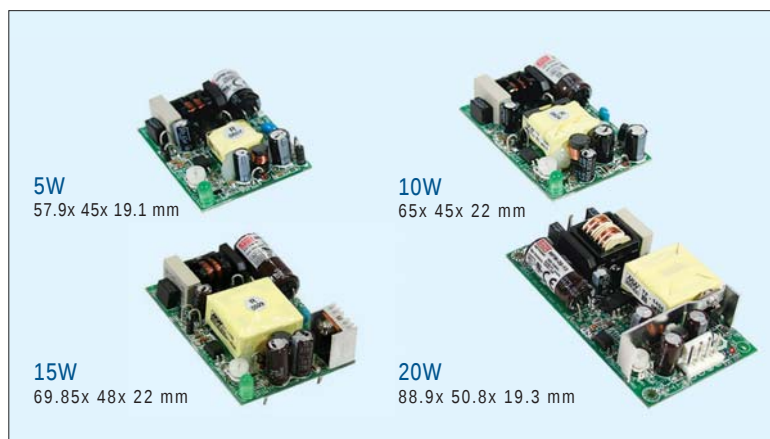
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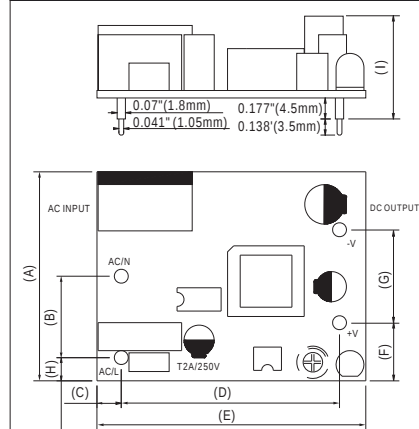


Features

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature
- Low leakage current < 300μA (20W)
- No load power consumption <0.5W (<0.75W for 20W models)
- Isolation class II (5~15W), class I (20W)
- On-board type version available for 20W (optional)
- Cooling by free air convection
- Meet industrial, IT safety requirements
- 100% full load burn-in test
- 3 years warranty

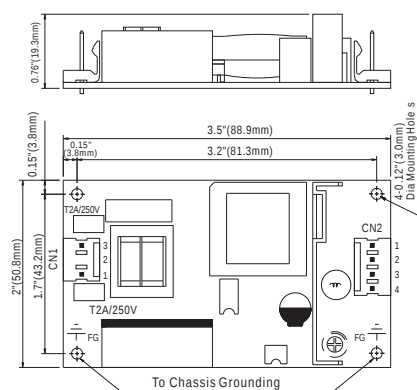


NFM-05 / 10 / 15 Series



	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	±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	Shutdown o/p voltage, recovers automatically after temperature goes down
Setup, rise, hold up time	NFM-5/15: 1000ms, 20ms, 100ms @ 230VAC NFM-10: 1800ms, 20ms, 100ms @ 230VAC NFM-20: 500ms, 20ms, 50ms @ 230VAC
Withstand voltage	I/P-O/P: 4kVAC, 1 minute
Working temperature	NFM-5/10/15: -20~+70°C NFM-20: -20~+60°C
Safety standards	ANSI/AAMI ES60601-1, 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, 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)

5W

NFM-05

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

10W

NFM-10

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

15W

NFM-15

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

20W

NFM-20

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

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