

20 Watt, NFM Series, Open Frame (Single Output)



electronicpowersolutions

- Universal AC Input
- Compact Chassis Mounting Format
- Short Circuit, Overload, Over Voltage Over Temperature Protection
- High Reliability, 100% Burn In
- 3 Year Warranty
- Very Competitive Prices
- Full Safety Approvals Industrial & Medical



Size: 89 x 51 x 19 mm

Specification

Universal Input.....	85~264 VAC / 120~370 VDC
Frequency.....	47~440 Hz
Output Voltage.....	See table below, plus Output Voltage trim range
Over Load Protection.....	>105%, output hiccup mode, (auto-recovery)
Over Voltage Protection.....	Shuts off o/p voltage, clamping by zener diode
Set Up, Rise, Hold Up Time.....	500 ms, 20 ms, 50 ms (230 VAC Input)
Isolation Voltage.....	I/P-O/P: 4 kVAC
Line Regulation.....	+/-1.0% (3.3~5 V models), +/-0.5% (12~24 V models)
Load Regulation.....	+/-1.5% (3.3~5 V models), +/-0.5% (12~24 V models)
AC Input Current.....	0.6 A @ 115 VAC, 0.4 A @ 230 VAC
Inrush Current.....	65A @ 230VAC (cold start)
Operating Temperature.....	-20 to +60°C (see derating curve)
Storage Temperature.....	-40 to +85 °C
Safety Standard.....	UL60601-1, TUV EN60601-1, IEC60601-1
EMC Standard.....	(CISPR11 & 22) EN55011 & 22 Class B EN61000-4-2, 3, 4, 5, 6, 8, 11 EN61000-3-2,3, ENV50204, EN55024, EN60601-1-2 EN61204-3 Medical Level, Criteria A.
Size.....	89 x 51 x 19 mm
Connection.....	Molex input and output connectors, see next page for details

Models and Ratings

Model	Output Voltage	Output Current	Ripple/Noise	Efficiency
NFM-20-3.3	3.3 V	4.5 A	80 mV	71%
NFM-20-5	5.0 V	4.4 A	80 mV	75%
NFM-20-12	12.0 V	1.8 A	150 mV	81%
NFM-20-15	15.0 V	1.4 A	150 mV	83%
NFM-20-24	24.0 V	0.92 A	240 mV	84%

Please see next page for mechanical drawing and connection details.

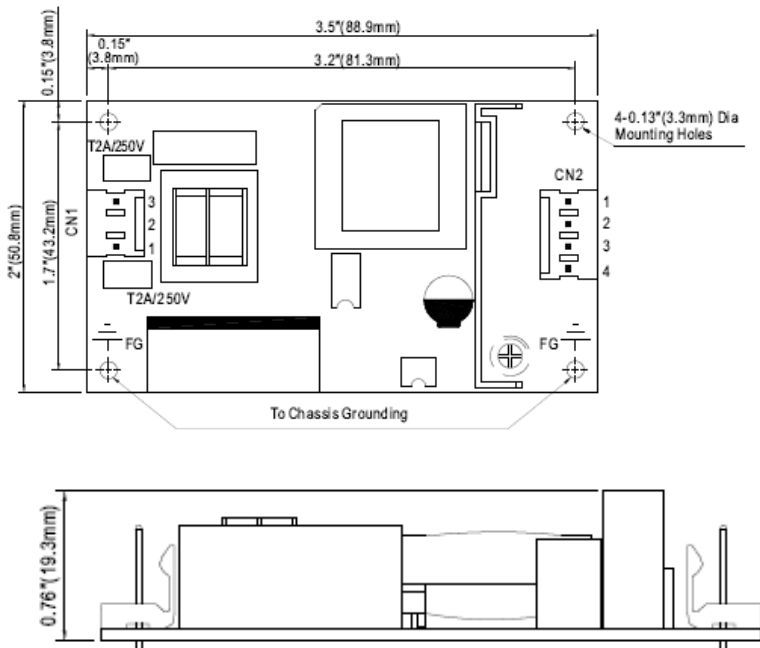
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Mechanical Details



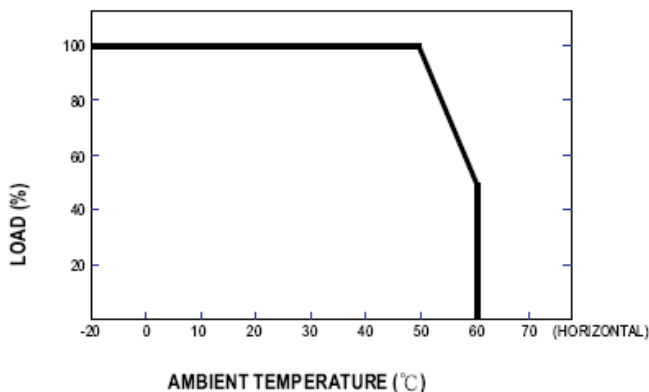
AC Input Connector (CN1) : Molex 41791-03 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	Molex 2139 or equivalent	Molex 2478 or equivalent
2	No Pin		
3	AC/L		

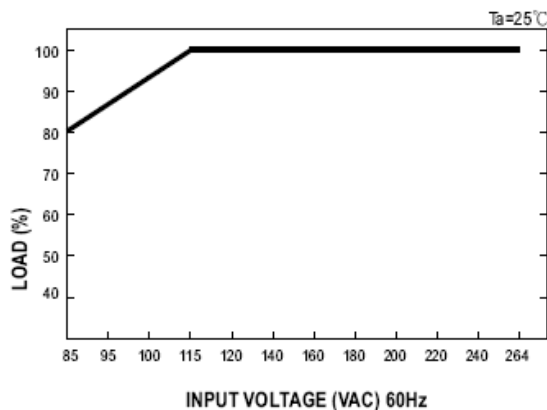
DC Output Connector (CN2) : Molex 41791-04 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	+V	Molex 2139 or equivalent	Molex 2478 or equivalent
3,4	-V		

Derating Curve



Output Derating VS Input Voltage



Specifications may change without notice, E&OE. ALL PSU Terms & Conditions apply.

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