Rev. 10.19.11\_160 NPT40-M Series 1 of 3

# NPT40 Series

45 Watts

**Total Power:** 45 - 55 Watts Input Voltage: 90 - 264 Vac 120 - 300 Vdc **# of Outputs:** Triple





### **Special Features**

- Medical and ITE Safety Approvals
- Universal input
- Less than 1U high
- 2" x 4" footprint
- Overload and short circuit protection
- High MTBF
- Built in EMI filter (CISPR 22 Class B)
- 0°C to +80°C operation
- Input power < 74 watts
- Complies with EN61000-3-2
- Class I approved
- Class II approved (with Class A EMI)
- LPX50 enclosure kit available
- Dual AC fuses

## **Electrical Specifications**

Input			
Input range:	90 - 264 Vac (wide range) 127 - 300 Vdc		
Frequency:	47-440 Hz		
Inrush current:	< 50 A peak @ 230 Vac, cold start @ 25 °C		
Input power:	< 74 Watts		
Efficiency:	75% average		
EMI/RFI:	FCC Class B conducted; CISPR 22 Class B conducted; EN55022 Class B conducted, VDE0878PT3 Class B conducted		
Safety ground leakage current:	275uA @ 50/60 Hz; 264 VAC input		
Output			
Maximum Power:	45 W for convection 55 W with 30CFM forced air		
Hold-up time:	10/20 ms 115/230 Vac input line		
Overload protection:	Short circuit protection on all outputs. Case overload protected @ 110% to 145% above peak rating		
Overvoltage protection:	5.7 to 6.7 Vdc on the main output		

### Safety

 TUV: 60950, 60601-1, 3rd edition
UL: 60950, 60601-1
CSA: 60950, 60601-1
CB: Certificate and report

General Street CE: Mark (LVD) CQC: Mark



# **Environmental Specifications**

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0.96"

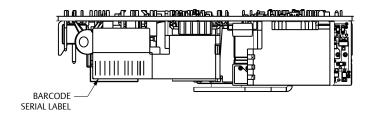
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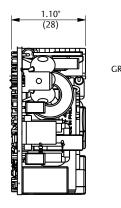
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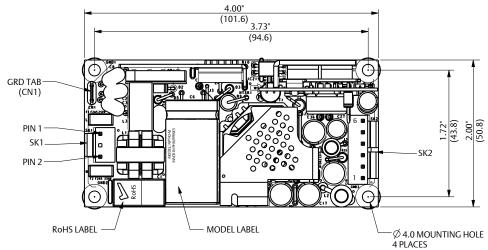
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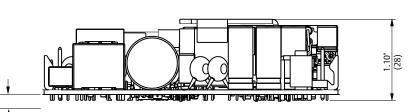
Operating temperature:	0° to 50 °C ambient derate each output at 2.5% per degree from 50 °C to 80 °C20 °C start up
Storage temperature:	-45 °C to +85 °C
Electromagnetic susceptibility:	Designed to meet EN61000-4; -2, -3, -4, -5, -6, -8, -11 Level 3
Humidity:	Operating; non-condensing 10% to 90% RH
Vibration:	IEC68-2-6 to the levels of IEC721-3-2
MTBF demonstrated:	> 550,000 hours at full load and 25 °C ambient conditions

#### **Mechanical Drawing**









0.197" (5.0) MINIMUM STANDOFF HEIGHT

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Ordering I	nformatio	n					
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection cooling	Maximum Load with 30CFM Forced Air	Peak Load¹	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
NPT42-M	+5V +12V -12V	0.5 A 0.1 A 0 A	5 A 2.5 A 0.5 A	8 A 3 A 0.7 A	9 A 4 A 0.7 A	± 2% ± 5% ± 5%	50 mV 120 mV 120 mV

- 1. Peak current lasting < 30 seconds with a maximum 10% duty cycle.
- 2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10  $\mu F$  in parallel with a 0.1  $\mu F$  capacitor at rated line voltage and load ranges.
- 4. Minimum Loads are required.

Pin Assignments	
Connector	NPT42-M
SK1-1	Line
SK1-3	Neutral
CV2.4	.51/
SK2-1	+5 V
SK2-2	+5 V
SK2-3	Common
SK2-4 SK2-5	Common -12V
SK2-6	+12V
JILZ U	· 1 ∠ V

Mating Conr AC Input:	
AC IIIput.	Molex 09-50-8031 (USA) 09-93-0300 (UK) PINS: 08-52-0113
DC Outputs:	Molex 09-50-8061 (USA) 09-93-0600 (UK) PINS: 08-52-0113
Emerson Net	work Power Connector Kit #70-841-006, includes all of the above
1. Specificati	ons subject to change without notice.
2. All dimens	ions in inches (mm), tolerance is ± 0.02" (± 0.5 mm)
3. Mounting	holes M1 and M2 should be grounded for EMI purposes.
4. Mounting	hole M1 is safety ground connection.
<ol><li>Specificati stated.</li></ol>	ons are for convection rating at factory settings at 115 VAC input, 25 °C unless otherwise
6. Warranty:	2 years
7 Weight: 0	3 lbs/.14 kg

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Related Product Links

826-NPT42-M - Emerson Network Power NPT42-M