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NPT40-M Series 45 Watts

Total Power:
Input Voltage:
of Outputs:

45 - 55 Watts 90 - 264 Vac 120 - 300 Vdc Triple

Preliminary



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



- **TUV:** 60950, 60601-1,
- 3rd edition
- UL: 60950, 60601-1 • CSA: 60950, 60601-1
- **CB:** Certificate and report
- 3rd edition
- CE: Mark (LVD)
- CQC: Mark

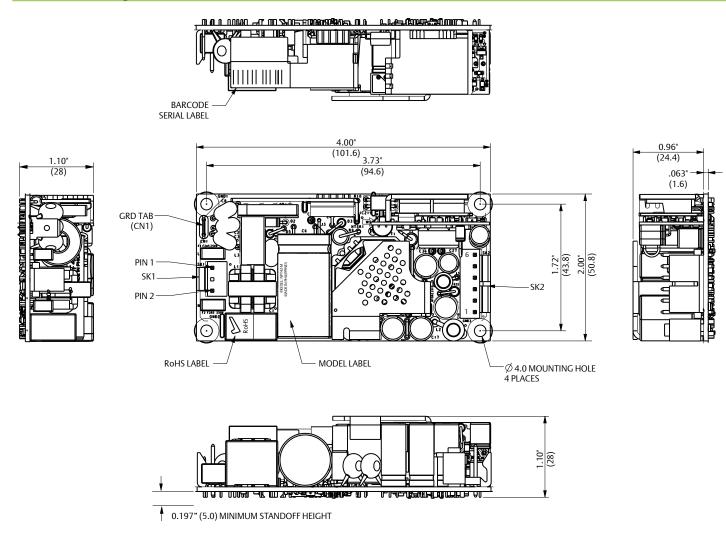


Environmental Specifications

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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



Ordering Information

5								
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection cooling	Maximum Load with 30CFM Forced Air	Peak Load¹	Regulation ²	Ripple P/P (PARD) ³	
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	
NPT43-M	+5V +15V -15V	0.5 A 0.1 A 0 A	5 A 2 A 0.5 A	8 A 2.4 A 0.7 A	9 A 4 A 0.7 A	± 2% ± 5% ± 5%	50 mV 150 mV 150 mV	
NPT44-M	+5V +24V +12V	0.5 A 0.1 A 0 A	5 A 1.0 A 0.5 A	8 A 1.5 A 0.7 A	9 A 2 A 0.7 A	± 2% ± 5% ± 5%	50 mV 240 mV 120 mV	

1. Peak current lasting < 30 seconds with a maximum 10% duty cycle.

At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
Peak-to-peak with 20 MHz bandwidth and 10 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.

4. Minimum Loads are required.

Pin Assignments

NPT42-M	NPT43-M	NPT44-M
Line	Line	Line
Neutral	Neutral	Neutral
+5 V	+5 V	+5 V
+5 V	+5 V	+5 V
Common	Common	Common
Common	Common	Common
-12V	-15V	+12V
+12V	+15V	+24V
	Line Neutral +5 V +5 V Common Common -12V	LineLineNeutralNeutral+5 V+5 V+5 V+5 VCommonCommonCommonCommon-12V-15V

Mating ConnectorsAC Input:Molex 09-50-8031 (USA)
09-93-0300 (UK)
PINS: 08-52-0113DC Outputs:Molex 09-50-8061 (USA)
09-93-0600 (UK)
PINS: 08-52-0113Emerson Network Power Connector Kit #70-841-006, includes all of the above1. Specifications subject to change without notice.2. All dimensions in inches (mm), tolerance is ± 0.02" (± 0.5 mm)

2. All dimensions in incres (min), tolerance is ± 0.02 (± 0.5 min)

3. Mounting holes M1 and M2 should be grounded for EMI purposes.

4. Mounting hole M1 is safety ground connection.

5. Specifications are for convection rating at factory settings at 115 VAC input, 25 °C unless otherwise stated.

6. Warranty: 2 years

7. Weight: 0.3 lbs/.14 kg

Americas

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