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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

• UL:

• **TUV:** 60950, 60601-1,

3rd edition 60950, 60601-1

CSA: 60950, 60601-1CB: Certificate and report

3rd edition

• CE: Mark (LVD)

• CQC: Mark

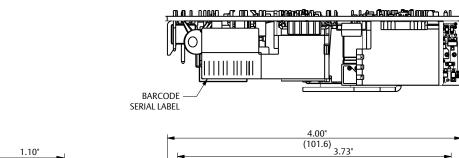


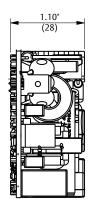
Environmental Specifications

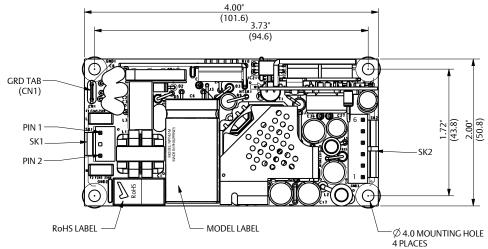
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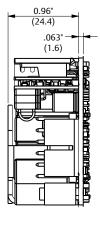
Operating temperature:	0° to 50 °C ambient derate each output at 2.5% per degree from 50 °C to 80 °C20 °C start up
Storage temperature:	-45 °C to +85 °C
Electromagnetic susceptibility:	Designed to meet EN61000-4; -2, -3, -4, -5, -6, -8, -11 Level 3
Humidity:	Operating; non-condensing 10% to 90% RH
Vibration: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

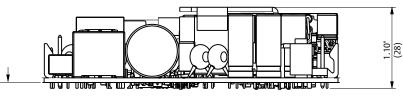
Mechanical Drawing











0.197" (5.0) MINIMUM STANDOFF HEIGHT

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Ordering	Informatio	n					
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

- 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 μ F in parallel with a 0.1 μ 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

	nectors
AC Input:	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.
Specificati stated.	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

Americas

5810 Van Allen Way Carlsbad, CA 92008

Telephone: +1 760 930 4600 Facsimile: +1 760 930 0698

Europe (UK)

Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX United Kingdom

Telephone: +44 (0) 1384 842 211 Facsimile: +44 (0) 1384 843 355

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong

Telephone: +852 2176 3333 Facsimile: +852 2176 3888

For global contact, visit:

www.Emerson.com/EmbeddedPower techsupport.embeddedpower @emerson.com

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