

DPT50 Series

50 Watts

Total Power: 30 - 50 Watts
Input Voltage: 127 - 300 VDC
90 - 264 VAC
of Outputs: Triple



Special Features

- CE Mark EMC & LVD
- Universal AC input
- Fully regulated output
- Overpower and short circuit protection
- Constant voltage
- High efficiency
- High MTBF
- IEC320 AC receptacle, 3 pin (type C14)
- Built in EMI filter (CISPR 22 Class B)
- LED power good indicator
- Input power <74 watts
- Complies with EN61000-3-2

Safety

UL UL60950-1
CSA CSA-C22.2 NO. 60950-1
VDE EN60950-1
CE EMC & LVD
CB Certificate and report

Electrical Specifications

Input

| | |
|--------------------------------|--|
| Input range: | 90-264 VAC (wide range) 127-300 VDC |
| Frequency: | 47-440 Hz |
| Inrush current: | <60 A peak @ 230 VAC, cold start @ 25°C |
| Efficiency: | 80% @ typical full load, @115VAC |
| EMI RFI: | FCC Part 15, Subpart B Class B & EN55022 (CISPR22) Class B |
| Safety ground leakage current: | 0.5mA @ 50/60 Hz, 264 VAC input |

Output

| | |
|--------------------------|--|
| Maximum power: | 50 W (DPT51, 30W) |
| Hold-up time: | 10 ms typical at full load @ 115VAC |
| Overpower protection: | Output short circuit protection auto recover. Overpower protected @ 110 - 160% above maximum rating |
| Overvoltage protection: | 20-45% above nominal output maximum |
| Cable/2 meter connector: | DC cable with 5 pin Din |

Environmental Specifications

| | |
|---------------------------------|---|
| Operating temperature: | 0°C to +40°C ambient. Derate each output as 2.5% per degree from 40° to 60°C. -20°C start up. |
| Storage temperature: | -40°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 95% 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 |

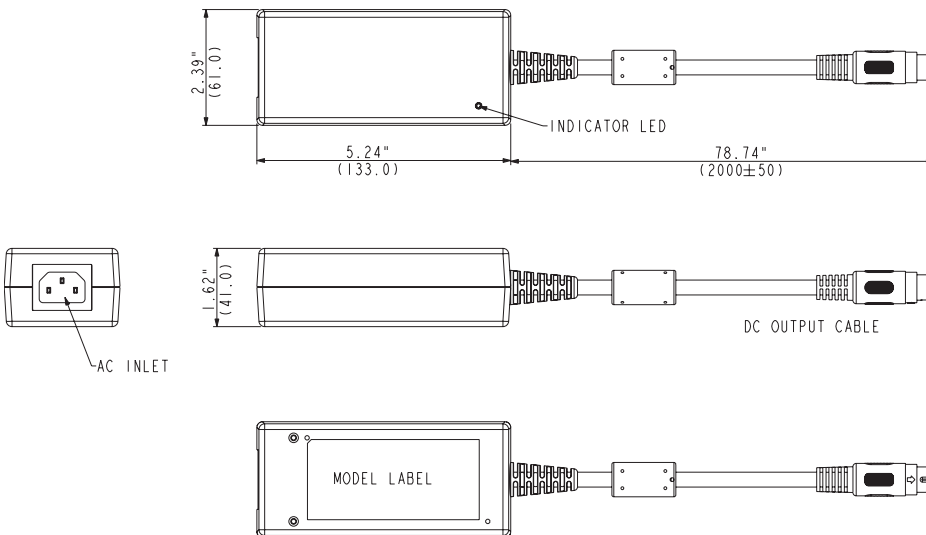


Ordering Information

| Model Number | Output Voltage | Minimum Load | Maximum Load | Peak Load ¹ | Regulation ² | Ripple P/P (PAR) ³ |
|--------------|----------------|--------------|--------------|------------------------|-------------------------|-------------------------------|
| DPT51 | +3.3V | 0.8A | 9A | 9A | ±4% | 50 mV |
| | +5V | 0.1A | 3A | 4A | ±6% | 50mV |
| | +12V | 0A | 0.5A | 1A | ±5% | 120mV |
| DPT52 | +5V | 0.5A | 8A | 9A | ±2% | 50 mV |
| | +12V | 0.1A | 3A | 4A | ±5% | 120mV |
| | -12V | 0A | 0.5A | 1.0A | ±5% | 120mV |
| DPT53 | +5V | 0.5A | 8A | 9A | ±2% | 50 mV |
| | +15V | 0.1A | 2.4A | 3.2A | ±5% | 150mV |
| | -15V | 0A | 0.5A | 0.7A | ±5% | 150mV |
| DPT54 | +5V | 0.5A | 8A | 9A | ±2% | 50 mV |
| | +24V | 0.1A | 1.5A | 2A | ±7% | 240mV |
| | +12V | 0A | 0.5A | 0.7A | ±5% | 120mV |

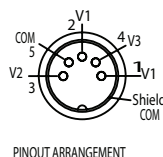
1. Peak current lasting <15 seconds with a maximum 10% duty cycle.
2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 μF (tantalum capacitor) in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.

Mechanical Drawing



NOTES:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ± 0.02" ± (0.5mm)
3. Warranty: 2 year
4. Weight: 1.44 lb./ 0.65 kg
5. AC input power cord sold separately.
6. Specifications are for convection rating at factory settings at 115VAC input, 25°C unless otherwise stated



Americas

5810 Van Allen Way
Carlsbad, CA 92008
USA
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.powerconversion.com
techsupport.embeddedpower@emerson.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson Network Power.

The global leader in enabling
business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- Embedded Power**
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co.
©2008 Emerson Electric Co.