

DPT50-M Series

50 Watts

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



Special Features

- Medical safety approvals
- 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 UL60601-1
CSA CSA-C22.2 NO. 601.1-M90
VDE 07501/EN60601-1 (IEC601)
CE EMC & LVD

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 | 275uA @ 50/60 Hz, 264 VAC input |
| Output | |
| Maximum power | 50 W (DPT51-M, 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 |

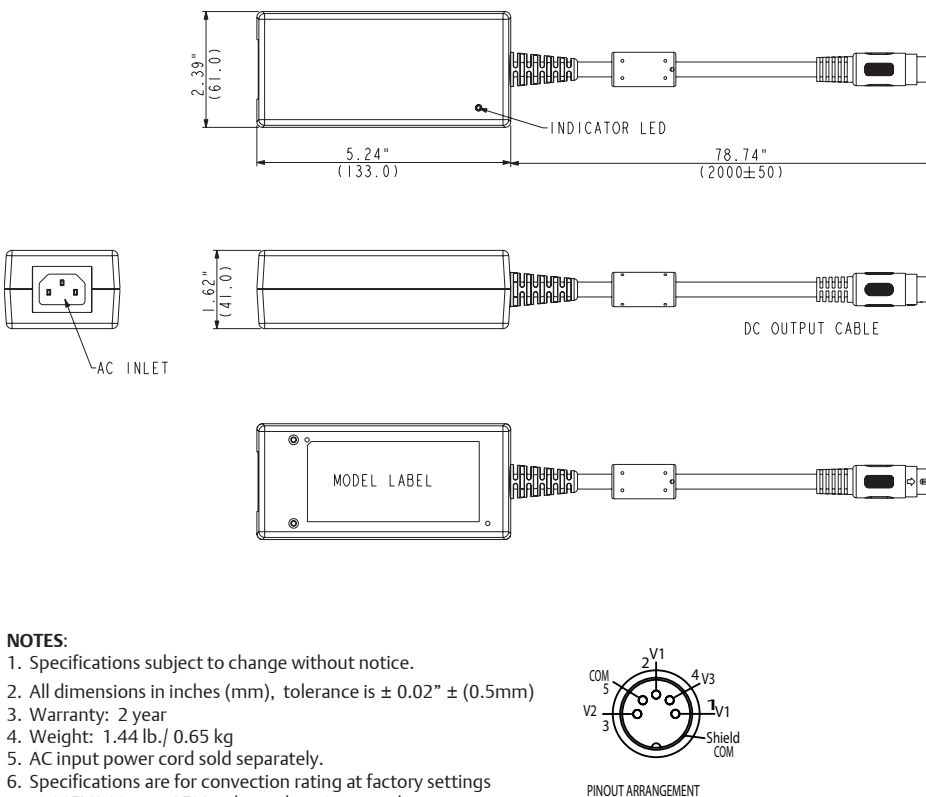


Ordering Information

| Model Number | Output Voltage | Minimum Load | Maximum Load | Peak Load ¹ | Regulation ² | Ripple P/P (PARD) ³ |
|--------------|----------------|--------------|--------------|------------------------|-------------------------|--------------------------------|
| DPT51-M | +3.3V | 0.8A | 9A | 9A | ±4% | 50 mV |
| | +5V | 0.1A | 3A | 4A | ±6% | 50mV |
| | +12V | 0A | 0.5A | 1A | ±5% | 120mV |
| DPT52-M | +5V | 0.5A | 8A | 9A | ±2% | 50 mV |
| | +12V | 0.1A | 3A | 4A | ±5% | 120mV |
| | -12V | 0A | 0.5A | 1.0A | ±5% | 120mV |
| DPT53-M | +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-M | +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

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