Embedded Power for
Business-Critical Continuity

DPT50 Series

50 Watts

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



RoHS 2002/95/EC

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

ASTEC

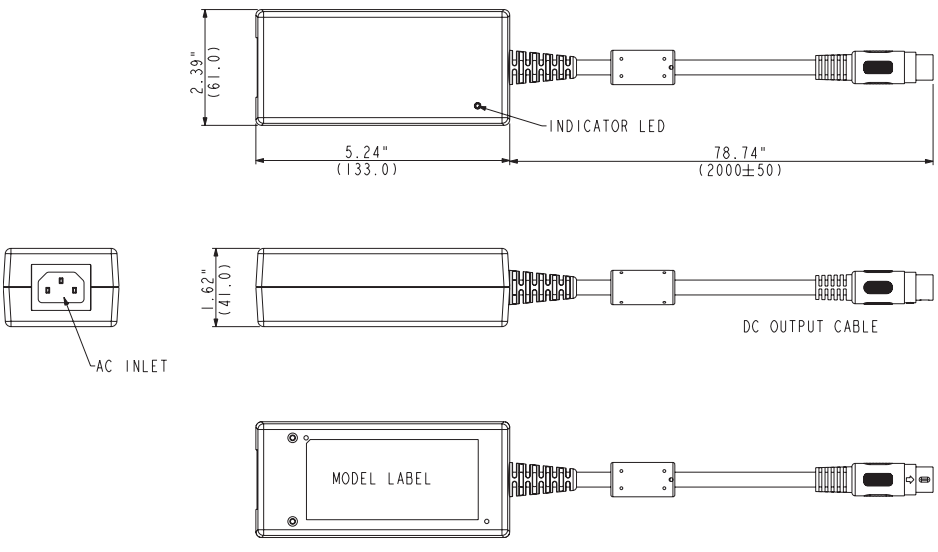
EMERSON
Network Power

Ordering Information

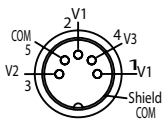
Model Number	Output Voltage	Minimum Load	Maximum Load	Peak Load [1]	Regulation [2]	Ripple P/P (PARD)[3]
DPT51	+3.3V	0.8A	9A	9A	±4%	50 mV
	+5V	0.1A	3A	4A	±6%	50mV
	+12V	0A	0.5A	1A	±5%	120mV
DPT52	+5V	0.5A	8A	9A	±2%	50 mV
	+12V	0.1A	3A	4A	±5%	120mV
	-12V	0A	0.5A	1.0A	±5%	120mV
DPT53	+5V	0.5A	8A	9A	±2%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



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