

DPT50 Series

50 Watts

Total Power: 30 - 50 Watts
Input Voltage: 127 - 300 VDC
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-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
Caable/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

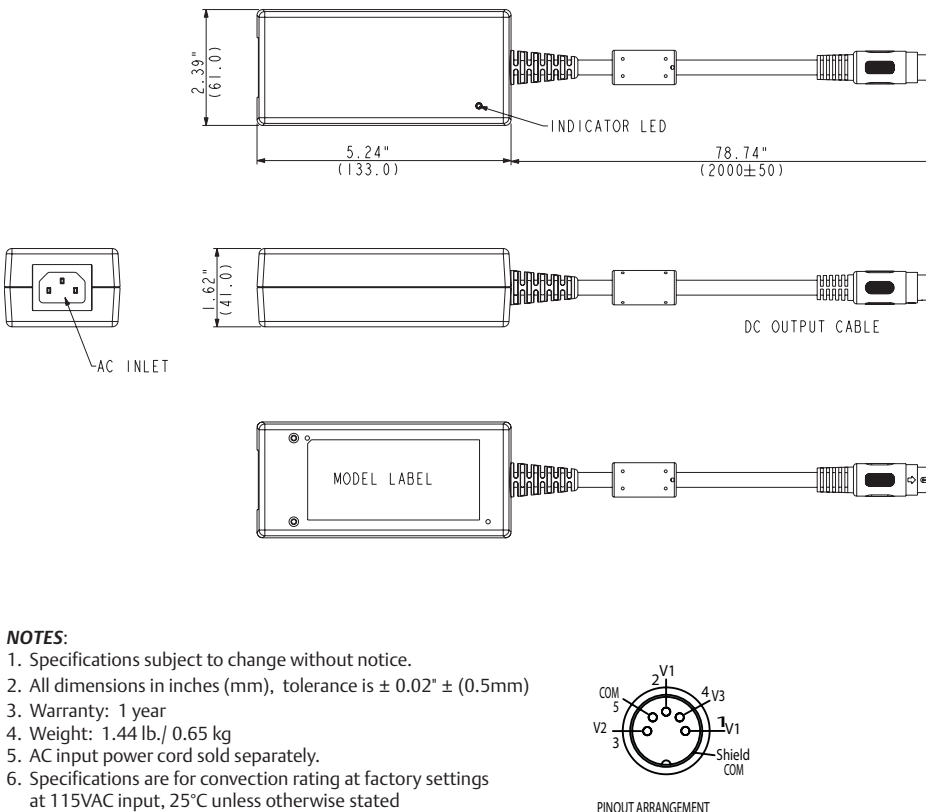


Ordering Information

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: 1 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

Astec

5810 Van Allen Way
Carlsbad, CA 92008
USA
Telephone: +1 760 930 4600
Facsimile: +1 760 930 0698

Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
Telephone: +44 (0) 1384 842 211
Facsimile: +44 (0) 1384 843 355

13-15, Shing Wan Road
Tai Wai, Shatin, N. T.
Hong Kong
Telephone: +852 2699 2868
Facsimile: +852 2699 1770

For global contact, visit:
www.astecpower.com
technicalsupport@astec.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 Power**
- Inbound Power
- Integrated Cabinet Solutions
- Outside Plant
- Precision Cooling
- Site Monitoring and Services

EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2007 Emerson Electric Co.