

## 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-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

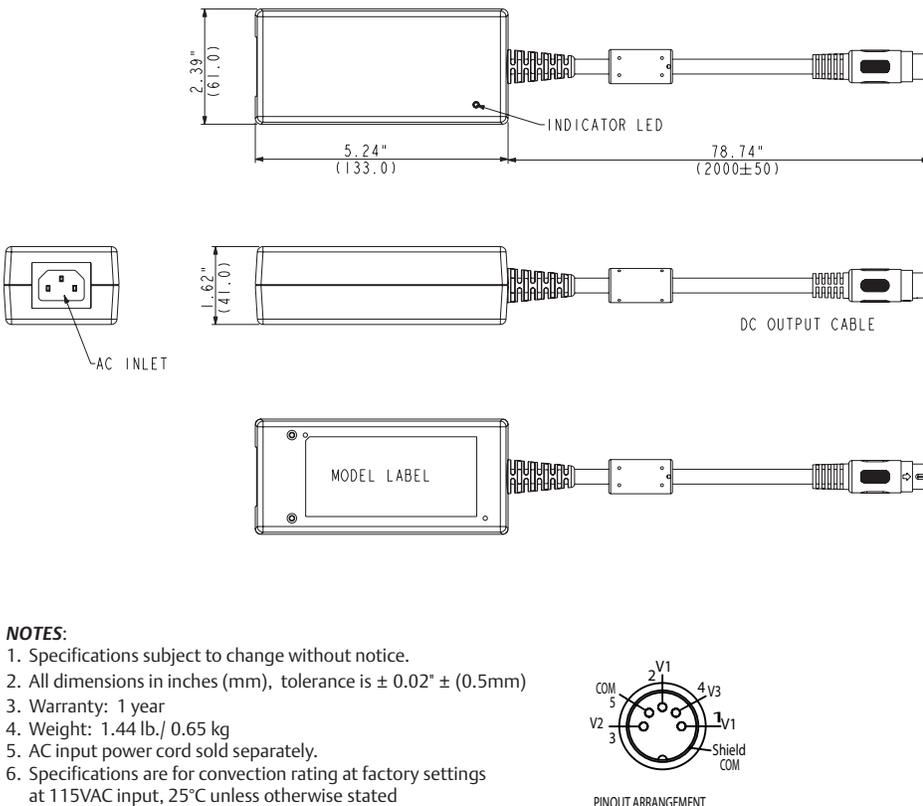


## Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load	Peak Load <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P (PAR) <sup>3</sup>
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  $\pm 0.02" \pm (0.5\text{mm})$
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](http://www.astecpower.com)  
[technicalsupport@astec.com](mailto: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.