



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# POWER

## DPS50

60 Watts

### Data Sheet

Total Power: 30 - 60 Watts  
Input Voltage: 90 - 264 Vac  
127 - 300 Vdc  
# of Outputs: Single



### SPECIAL FEATURES

- CE Mark EMC & LVD (except DPS52)
- Universal AC input
- Fully regulated output
- Overload and short circuit protection
- Internal remote sense to the output plug
- Constant voltage
- Level V efficiency (except DPS52)
- 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
- Meets Energy Star

### SAFETY

- UL UL 60950-1
- CSA CSA-C22.2 no.60950-1
- VDE EN60950-1
- CE EMC, LVD & ErP 2011 (except DPS52)
- CB Certificate and report
- PSE Denan 06-03051012

### Electrical Specifications

Input	
Input range	90 - 264 Vac (wide range)
Frequency	127 - 300 Vdc
Inrush current	47-440 Hz
Input current	< 60 A @ 230 Vac, cold start @ 25 °C
Efficiency	< 2.0 A rms @ 115 Vac; < 1 A @ 230 Vac
EMI/RFI	80% @ full load typical, @115 Vac
Safety ground leakage current	FCC Part 15, Subpart B Class B & EN55022 (CISPR 22) Class B 0.5 mA @ 50/60 Hz, 264 Vac input
Output	
Maximum Power (Po)	60 W (DPS52, 30 W)
Hold-up time	10ms. typical at full load @ 115 Vac
Overvoltage protection	20% - 45% above nominal output maximum Latching type, recycle AC to reset.
Overcurrent protection	Output short circuit protection auto recover Overload protected @ 120 - 150% above maximum rating
Cable/connector	DC cable with 2.5 mm center plug DC plug center +v DC plug outer -v

### Environmental Specifications

Operating temperature:	0° to +40 °C ambient. -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 5% to 90% RH
Vibration:	Three orthogonal axes, 3 sweeps per axe at 1 oct/min. 2G peak 8 Hz to 500 Hz, operational
MTBF demonstrated:	> 550,000 hours at full load and 25 °C ambient conditions

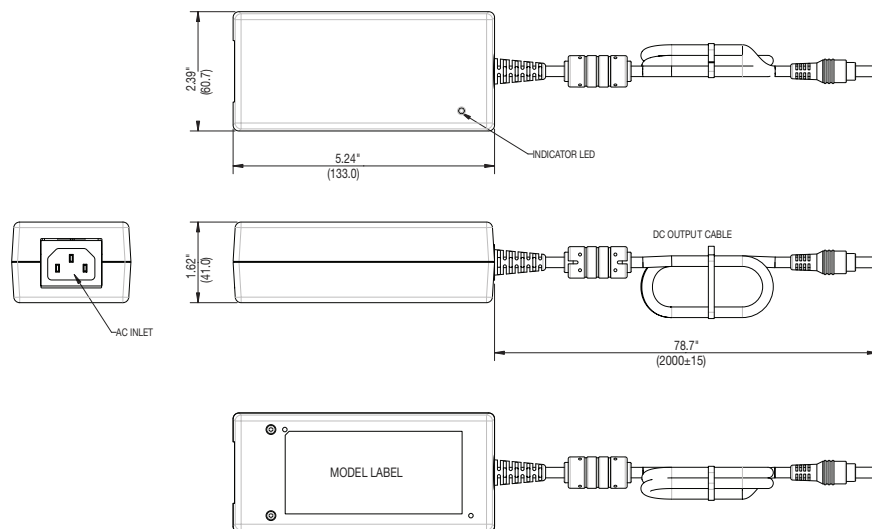
## Ordering Information

Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
DPS52*	30 W	5 V	6 A	6.5 A	± 2%	50 mV
DPS53	60 W	12 V	5 A	5.4 A	± 2%	120 mV
DPS54	60 W	15 V	4 A	4.3 A	± 2%	150 mV
DPS55	60 W	24 V	2.5 A	2.7 A	± 2%	240 mV
DPS58	60 W	48 V	1.25 A	1.35 A	± 2%	480 mV

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.

\* No CE approval under new EUP directive

## Mechanical Drawing



### Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ± 0.02" (± 0.5 mm)
3. Warranty: 2 year
4. Weight: 1.06 lb./.48 kg
5. AC input power cord sold separately.
6. Specifications are for convection rating at factory settings at 115 Vac input, 25 °C unless otherwise stated

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