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# **DPS50** 60 Watts

Total Power: Input Voltage: # of Outputs: 30 - 60 Watts 90 - 264 Vac 127 - 300 Vdc 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
UL	01 00 9 9 0 - 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) 127 - 300 Vdc				
Frequency	47-440 Hz < 60 A @ 230 Vac, cold start @ 25 °C < 2.0 A rms @ 115 Vac; < 1 A @ 230 Vac				
Inrush current					
Input current					
Efficiency	80% @ full load typical, @115 Vac				
EMI/RFI	FCC Part 15, Subpart B Class B & EN55022 (CISPR 22) Class B				
Safety ground leakage current	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.				
Overload 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. Derate each output as 2.5% per degree from 40 °C to 60 °C20 °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 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

Ordennig								
Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load <sup>1</sup>	<b>Regulation</b> <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		

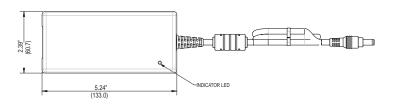
1. Peak current lasting < 15 seconds with a maximum 10% duty cycle.

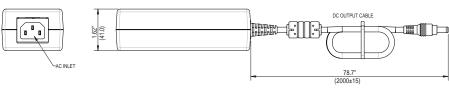
2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.

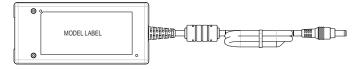
3. Peak-to-peak with 20 MHz bandwidth and 10  $\mu$ F (tantalum capacitor) in parallel with a 0.1  $\mu$ F capacitor at rated line voltage and load ranges.

\* 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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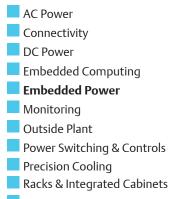
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