POWER

DPS50

60 Watts

Data Sheet

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

RoHS 6/6 COMPLIANT

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

ARTESYN™ EMBEDDED TECHNOLOGIES

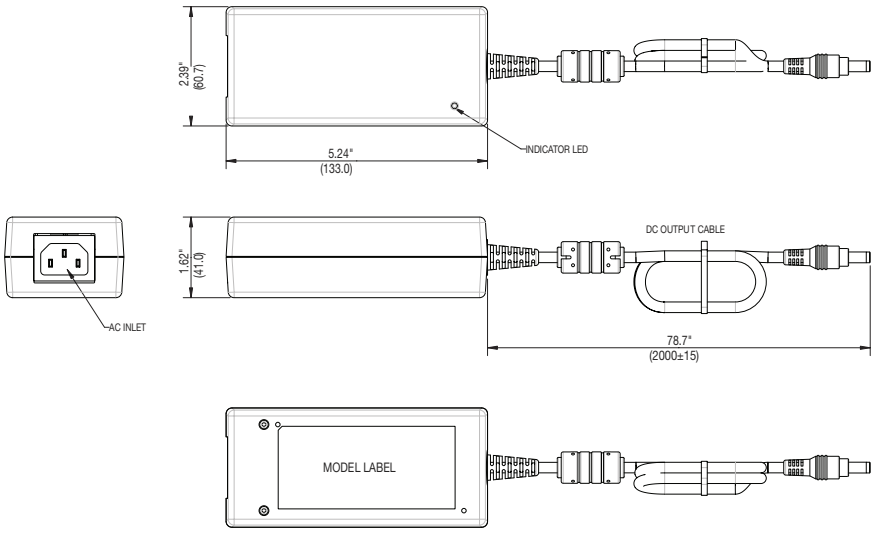
Ordering Information

Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load[1]	Regulation[2]	Ripple P/P (PARD)[3]
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 ºC 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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