

## DPS50

60 Watts

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



## Electrical Specifications

### Input

|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| Input range                   | 90 - 264 Vac (wide range)<br>127 - 300 Vdc                  |
| Frequency                     | 47-440 Hz                                                   |
| Inrush current                | < 60 A @ 230 Vac, cold start @ 25 °C                        |
| Input current                 | < 2.0 A rms @ 115 Vac; < 1 A @ 230 Vac                      |
| 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<br>Latching type, recycle AC to reset.                        |
| Overload protection    | Output short circuit protection auto recover<br>Overload protected @ 120 - 150% above maximum rating |
| Cable/connector        | DC cable with 2.5 mm center plug<br>DC plug center +v<br>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 °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 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                                        |

## 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
- WEEE & CeC IV compliant

## Safety

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



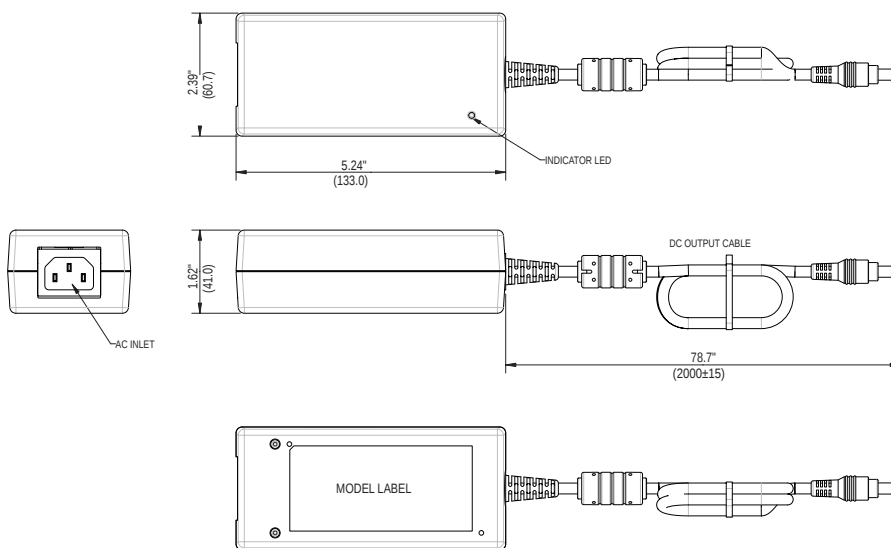
## Ordering Information

| 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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