

DP150 Series | ITE & Medical Safety

150W/220W Peak

- Built-in +5Vsb / 10W module and remote control
- ITE & Medical (M) safety
- 3" x 5" industrial standard footprint
- Ultra slim with only 1.07" (27.1mm) height
- 2X MOPP approved per IEC/EN 60601-1, 3rd edition



GREEN POWER

Description

The **DP150 Series** is a low-profile, 150W, open-frame power supply. Size: 3.0" x 5.0" x 1.07". Safety approved for ITE and Medical (MOOP and MOPP) applications. Built-in +5V standby power module and a remote control functions. Eco-friendly design delivers 220W of peak-power. Ideal for in-rush currents found in ITE and Medical equipment applications, including MOOP and 2X MOPP.

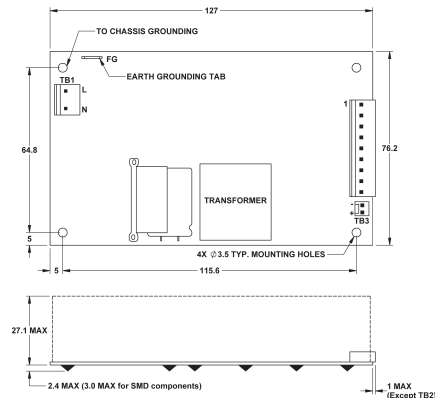
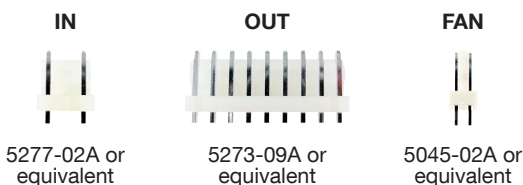
Specifications

Input voltage	• 90 VAC to 264 VAC	Remote control	• active low
Input frequency	• 47 Hz to 63 Hz	Operating temperature	• -20°C to 70°C derating: 2.5% / °C > 50°C
Green power (remote off status)	• < 0.5W at no load • < 1W at 5Vsb/0.1A	Cooling	• convection cooling
Inrush current (cold start at 25°C)	• < 30A at 115 VAC • or < 60A at 230 VAC	Storage temperature	• -40°C to +85°C
Efficiency	• 89%	EMI	• EN 55022 B, EN 61000-3-3
Hold up time	• 20ms	Harmonics	• EN 61000-3-2
Overload protection	• auto recovery	EMS	• EN 61000-4-2,-3,-4,-5,-6,-8,-11
Short circuit protection	• auto recovery	Safety	• ANSI/AMMI/CSA/EN 60601-1, 3rd edition • UL/CSA/EN 60950-1, 2nd edition
Over voltage protection	• latch off		

Mechanical Specifications

Notes

1. Dimensions shown in mm. Tolerance: ±0.4mm.
2. Size: 76.2 x 127 x 27.1 (mm)
3" x 5" x 1.07"
Net weight: 277 g approx. / unit
3. Connectors:



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Output Specifications

Model No.	Output Rail	Load				Voltage Accuracy	Ripple Noise	Line Reg.	Load Reg.
		Min	Rated	Max	Peak				
DP150-7S	+12V +5Vsb	0A 0A	12A 2A	-	18A	+11.9V~+12.1V +4.9V~+5.1V	100mVpp 50mVpp	±1% ±1%	±1% ±1%
DP150-8S	+15V +5Vsb	0A 0A	9.6A 2A	-	14.4A	+14.9V~+15.1V +4.9V~+5.1V	120mVpp 50mVpp	±1% ±1%	±1% ±1%
DP150-3S	+18V +5Vsb	0A 0A	8A 2A	-	12A	+17.9V~+18.1V +4.9V~+5.1V	150mVpp 50mVpp	±1% ±1%	±1% ±1%
DP150-9S	+24V +5Vsb	0A 0A	6A 2A	-	9A	+23.9V~+24.1V +4.9V~+5.1V	200mVpp 50mVpp	±1% ±1%	±1% ±1%
DP150-GS	+28V +5Vsb	0A 0A	5.1A 2A	-	7.7A	+27.9V~+28.1V +4.9V~+5.1V	200mVpp 50mVpp	±1% ±1%	±1% ±1%
DP150-JS	+36V +5Vsb	0A 0A	4A 2A	-	6A	+35.8V~+36.2V +4.9V~+5.1V	200mVpp 50mVpp	±1% ±1%	±1% ±1%
DP150-14S	+48V +5Vsb	0A 0A	3A 2A	-	4.5A	+47.8V~+48.2V +4.9V~+5.1V	200mVpp 50mVpp	±1% ±1%	±1% ±1%

Notes

1. Each output voltage is verified to be within the specified accuracy @ 60% of rated load.
2. Max. duration of peak load is 5 sec. with a 10% duty cycle. Average power should remain lower than rated power.
3. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
4. Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load at another output set to 60% rated load.
5. The ripple noise is measured by using 15MHz bandwidth limited oscilloscope with each output terminated with a 0.47uF capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time at which the main output drops down to the low limit of the main output at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.
8. For ordering, DP150-xS is for ITE safety, and DP150M-xS is for Medical safety