

DPS Series 240W AC/DC DIN Rail Power Supplies

IMO

AC - DC DIN rail mountable
240W power supplies

- Compact design
- High efficiency up to 89%
- PFC function available
- Parallel function available (switch)
- Input voltage 115/230VAC auto select
- 3 Year warranty



Specifcaton

Model	DPS-1-240-24
Input Voltage	115/230VAC
Output Wattage	240W
Output Voltage	24VDC
Output Current	10A
Efficiency (min/typ)	87/89%
General Specification	
Isolation voltage	3000VAC
Isolation resistance	100M Ω @ 500VDC
Ambient temperature	-10 to +71°C
Derating (from 61 to 71°C)	2.5%/°C
Storage temperature	-25 to +85°C
Relative humidity	20 to 95% RH
Cooling	Free air convection
Dimensions	L125 x W83 x D126 mm
Weight	1000g
Case material	Metal

Input Specifications

Rated input voltage	115/230VAC
Input voltage range	115V: 93 to 132VAC, 230V: 186 to 264VDC
Rated input current	5.4/2.2A
Line frequency	47 to 63Hz
Inrush current	30A @ 115VAC, 60A @ 230VAC
PFC	0.7 @ 230VAC

Output Specifications

Output voltage accuracy	0 to 1% (adjusted pre-shipment)
Minimum load	0%
Line regulation	$\pm 0.5\%$
Load regulation	$\pm 1\%$ single mode, $\pm 5\%$ parallel mode
Hold up time	25mS @ 115VAC, 30mS @ 230VAC
Temperature coefficient	$\pm 0.02\%/^{\circ}\text{C}$
Ripple & noise	100mV
Voltage trim range	22.5 to 28.5VDC
DC ON indicator threshold at start up	17.6 to 19.4VDC
DC LO indicator threshold after start up	17.6 to 19.4VDC
Parallel operation	up to 3 units

Control and Protection

Input fuse	T6.3A/250VAC internal
Rated over load protection	120 to 145%
Power Rdy	Electrical isolation: 500VDC Threshold volt. contact closed (start up): 17.6 to 19.4VDC Contact rating: 0.3A @ 60VDC

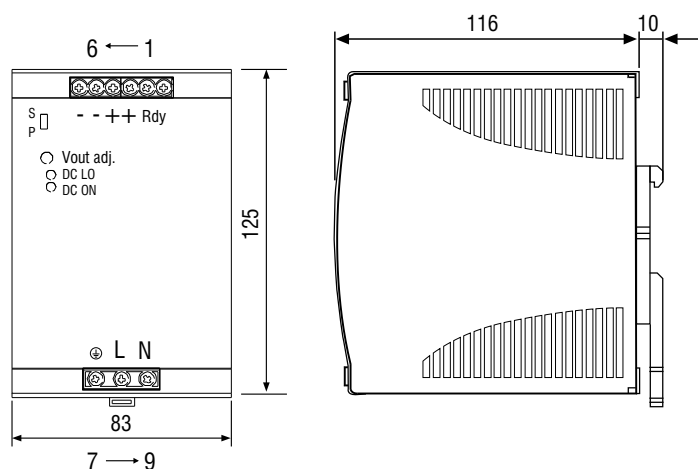
Over voltage protection	120 to 145%
Output short circuit	Current limited

Approvals and Standards	CE, UL/cUL
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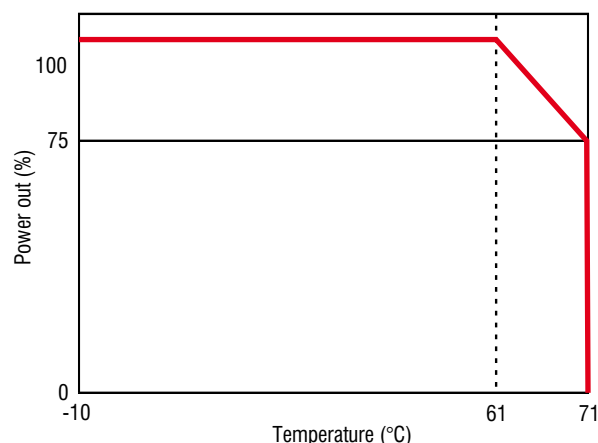
Dimensions (mm)



Pin connections

Key	Description
Rdy(1,2)	DC ON output for relay (24V models only)
+	(3) Positive output terminal
+	(4) Positive output terminal
-	(5) Negative output terminal
-	(6) Negative output terminal
≡	(7) Ground terminal to minimize high-frequency emissions
L	(8) Input terminals (phase conductor, no polarity at DC input)
N	(9) Input terminals (neutral conductor, no polarity at DC input)
DC ON	Operation indicator LED
DC LO	DC low voltage indicator LED
Vout adj.	Trimmer-potentiometer for Vout adjustment
S/P	Single/Parallel select switch

Derating



Installation

Ventilation/Cooling

Normal convection
All sides 25mm free space
for cooling recommended

Screw Terminal

10-24AWG flexible/solid cable
Strip cable ends by 8mm

Construction

Easy, safe and secure
snap-on, snap-off
DIN-Rail mounting
(TS35/7.5 or TS35/15)

Connections

