

DPS Series 30W ~ 60W

AC-DC DIN Rail Power Supplies

- 5, 12, 24 & 48VDC
- Class 2
- UL, cUL, UR, cUR, CE
- Universal input 90~264VAC
- High efficiency
- Short circuit protection
- Internal input filter
- 3 Year warranty
- IP20



Specification - 30W Output

Model	DPS-1-030-5DC*	DPS-1-030-12DC	DPS-1-030-24DC	DPS-1-030-48DC
Input Voltage	85 ~ 264VAC			
Output Wattage	30W			
Output Voltage	5VDC	12VDC	24VDC	48VDC
Output Current	6A	2.5A	1.25A	0.625A
Efficiency (min/typ)	77/79%	82/84%	83/86%	83/86%
General Specification				
Approval	cURus - Class 2			
Isolation Voltage	3000VAC/4242VDC			
Isolation Resistance	100MΩ @ 500VDC			
Ambient Temperature	-41 to +71°C			
Derating	(61 to 71°C) 2.5%/°C			
Storage Temperature	-40 to +85°C			
Relative Humidity	20 to 95% RH			
Cooling	Free air convection			
Dimensions	L90 x W40.5 x D114 mm			
Weight	270g			
Case Material	Plastic			
Input Specifications				
Rated Input Voltage	120 ~ 240VAC			
Input Voltage Range	85 to 264VAC, 90 to 375VDC			
Line Frequency	47 ~ 63Hz			
Inrush Current (115 / 230VAC)	20 / 40A			
Output Specifications				
Output Voltage Accuracy	+1%			
Minimum Load	0%			
Line Regulation	±0.5%			
Load Regulation	±0.5%			
Turn On Time	1000ms after AC applied to input at full resistive load			
Voltage Fall Time	150ms			
Voltage Rise Time	150ms			
Hold Up Time (115 / 230VAC)	25 / 30ms			
Temperature Coefficient	±0.03%/°C			
Ripple & Noise	50mV			
Voltage Trim Range	5 ~ 5.5VDC	12 ~ 14VDC	24 ~ 28VDC	48 ~ 55VDC
DC ON & LOW Indicator (Green & Red LED)	3.5 ~ 4.5VDC	9 ~ 10.8VDC	18 ~ 21.6VDC	37 ~ 43VDC
Control & Protection				
Rated Overload Protection	110 ~ 150%			
Over Voltage Protection	6 ~ 6.8VDC	15 ~ 16.5VDC	30 ~ 33VDC	60 ~ 66VDC
Output Short Circuit	Fold Forward			

* Not Class 2 listed

DPS Series 30W ~ 60W

AC-DC DIN Rail Power Supplies

- 5, 12, 24 & 48VDC
- Class 2
- UL, cUL, UR, cUR, CE
- Universal input 90~264VAC
- High efficiency
- Short circuit protection
- Internal input filter
- 3 Year warranty
- IP20



Specification - 50/60W Output

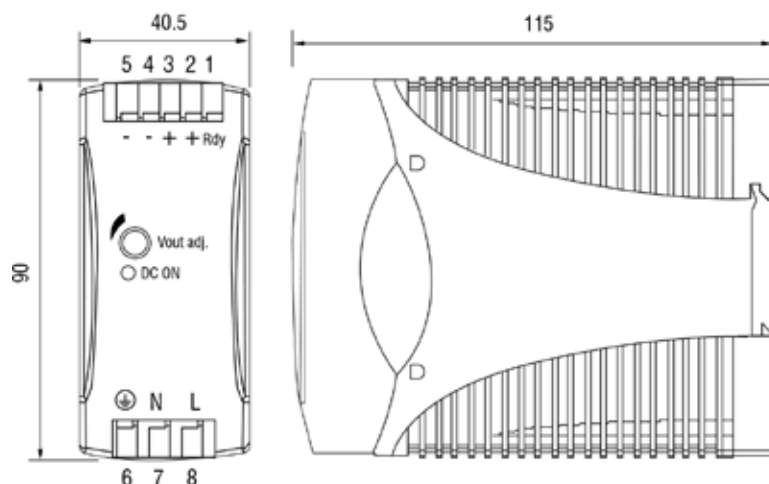
Model	DPS-1-050-5DC*	DPS-1-060-12DC*	DPS-1-060-24DC	DPS-1-060-48DC
Input Voltage	85 ~ 264VAC			
Output Wattage	50W	60W		
Output Voltage	5VDC	12VDC	24VDC	48VDC
Output Current	10A	5A	2.5A	1.25A
Efficiency (min/typ)	77/79%	84/86%	86/89%	86/89%
General Specification				
Approval	cURus - Class 2			
Isolation Voltage	3000VAC/4242VDC			
Isolation Resistance	100MΩ @ 500VDC			
Ambient Temperature	-41 to +71°C			
Derating	(61 to 71°C) 2.5%/°C			
Storage Temperature	-40 to +85°C			
Relative Humidity	20 to 95% RH			
Cooling	Free air convection			
Dimensions	L90 x W40.5 x D114 mm			
Weight	340g			
Case Material	Plastic			
Input Specifications				
Rated Input Voltage	120 ~ 240VAC			
Input Voltage Range	85 to 264VAC, 90 to 375VDC			
Line Frequency	47 ~ 63Hz			
Inrush Current (115 / 230VAC)	20 / 40A			
Output Specifications				
Output Voltage Accuracy	+1%			
Minimum Load	0%			
Line Regulation	±0.5%			
Load Regulation	±0.5%			
Turn On Time	1000ms after AC applied to input at full resistive load			
Voltage Fall Time	150ms			
Voltage Rise Time	150ms			
Hold Up Time (115 / 230VAC)	25 / 30ms			
Temperature Coefficient	±0.03%/°C			
Ripple & Noise	50mV			
Voltage Trim Range	5 ~ 5.5VDC	12 ~ 14VDC	24 ~ 28VDC	48 ~ 55VDC
DC ON & LOW Indicator (Green & Red LED)	3.5 ~ 4.5VDC	9 ~ 10.8VDC	18 ~ 21.6VDC	37 ~ 43VDC
Control & Protection				
Rated Overload Protection	110 ~ 150%			
Over Voltage Protection	6 ~ 6.8VDC	15 ~ 16.5VDC	30 ~ 33VDC	60 ~ 66VDC
Output Short Circuit	Fold Forward			

* Not Class 2 listed

DPS Series 30W ~ 60W AC/DC DIN Rail Power Supplies

5, 12, 24 & 48 VDC Output Options

Dimensions (mm)



Pin connections

Key	Description
Rdy (1)	DC OK output for relay (24V models only)
+	(2) Positive output terminal
+	(3) Positive output terminal
-	(4) Negative output terminal
-	(5) Negative output terminal
⊥	(6) Ground terminal to minimize high-frequency emissions
N	(7) Input terminals (neutral conductor, no polarity at DC input)
L	(8) Input terminals (phase conductor, no polarity at DC input)
DC ON	Operation indicator LED
Vout adj.	Trimmer-potentiometer for Vout adjustment

Installation

Ventilation/Cooling

Normal convection
All sides 25mm free space
for cooling recommended

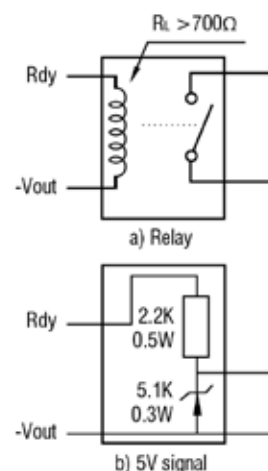
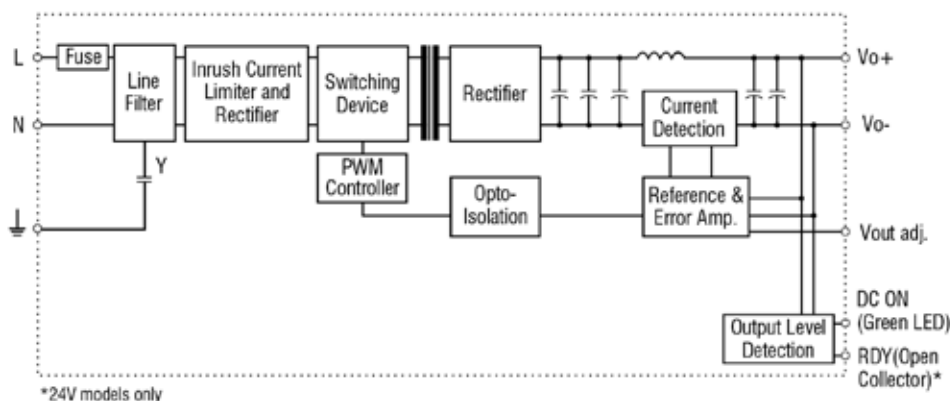
Terminal size range

2 Solid: 0.2-2.0mm (AWG24-14)
(use copper conductors only)

Construction

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

Connections



Rdy connections

Derating

