



POWER SUPPLIES

SWITCHING POWER SUPPLIES

PS5R SERIES

DESCRIPTION

The **PS5R Series of Switching Power Supplies** is available with an output of 12 or 24 VDC and output power from 7.5-240W. The output is short-circuit protected and regulated. These switching power supplies, which minimize the heat generated in control panels, have a much higher efficiency than linear power supplies. They are small and completely enclosed, and they can be DIN rail or surface mounted.

FEATURES

- **Universal AC input, 100-240 VAC or 110-340 VDC**
- **Output power from 7.5-240W**
- **Small size to save panel space**
- **DIN rail/surface mount enclosure**
- **Slim-line models to save valuable space**
- **High efficiency operation for minimizing heat generation in control panels**
- **Time-saving, spring-loaded screw terminals**



POWER SUPPLIES

SPECIFICATIONS

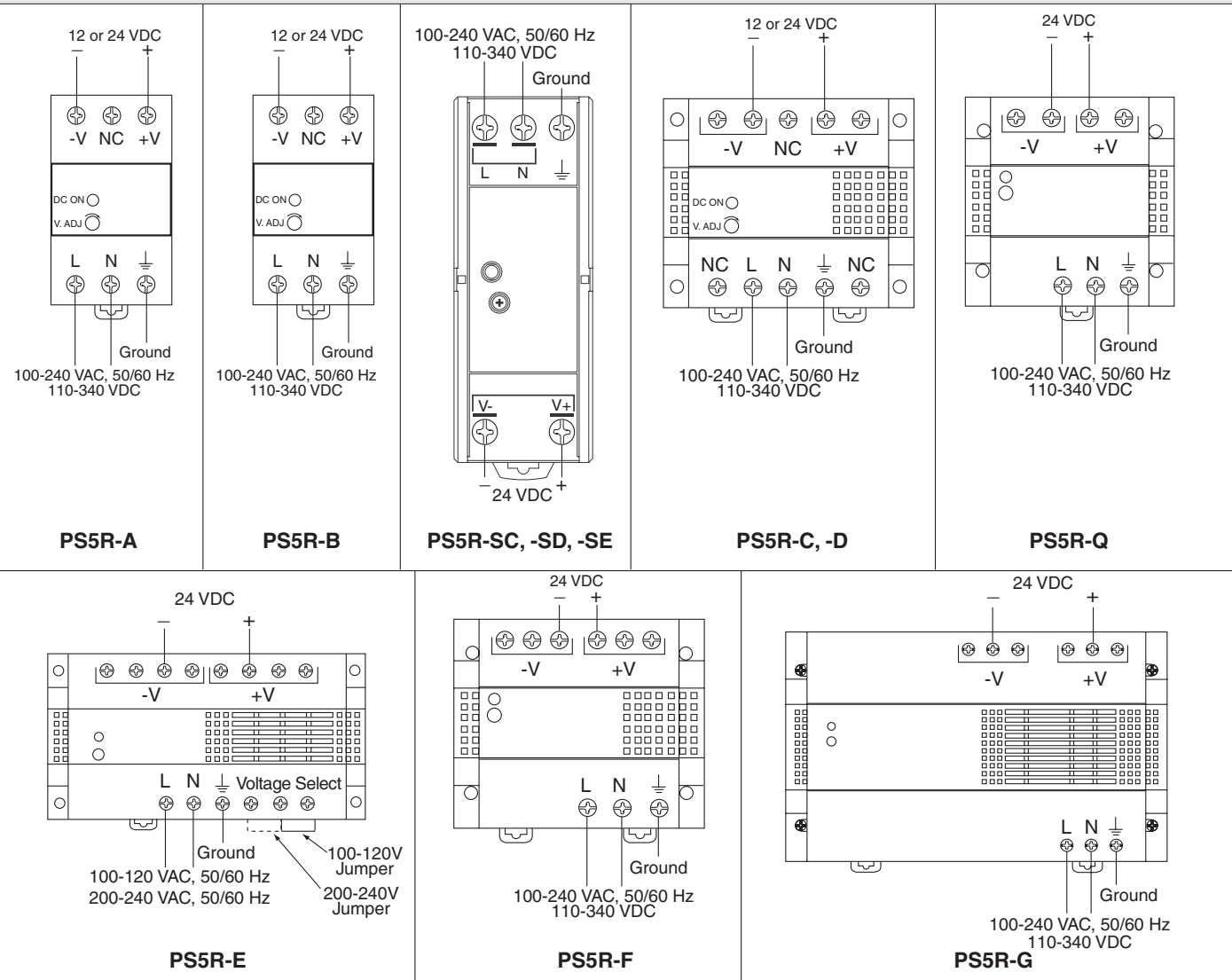
Input Voltage	100-240 VAC nominal, 50/60 Hz, 110-340 VDC	Voltage adjustment	±10%
PS5R-E	100-120 VAC, 200-240 VAC (jumper selectable)	Regulation	
Current (typical @100V)		Line	0.4% max
PS5R-A	0.17A	Load	1.5% max
PS5R-B	0.3A	Temp	0.05% max
PS5R-C	0.68A	Ripple voltage	2% max peak to peak (including noise)
PS5R-SC	0.9A	Over-voltage protection	120% typical
PS5R-D	1.15A	Over-current protection	105% auto-reset
PS5R-SD	1.7A	General	
PS5R-Q	1.1A	Operating temp	14° to 140°F (-10° to 60°C)
PS5R-E	2.5A	Operating humidity	20% to 90% RH noncondensing
PS5R-SE	2.3A	Connections	Spring-loaded, finger-safe terminals with captive M3.5 screws
PS5R-F	1.8A	Dimensions	
PS5R-G	4A	PS5R-A	2.76"D x 1.77"W x 2.95"H (7.01 x 4.50 x 7.49 cm)
Inrush current	50A max (cold start at 200V)	PS5R-B	3.74"D x 1.77"W x 2.95"H (9.50 x 4.50 x 7.49 cm)
Leakage current @ no load	0.75 mA	PS5R-C, -D	3.74"D x 3.54"W x 2.95"H (9.50 x 8.99 x 7.49 cm)
Typical efficiency @ 24 VDC		PS5R-SC, -SD	4.25"D x 1.42"W x 3.74"H (10.8 x 3.6 x 9.5 cm)
PS5R-A, -C	75%	PS5R-Q	5.51"D x 3.35"W x 4.72"H (14.0 x 8.5 x 12.0 cm)
PS5R-B, -D	79%	PS5R-E	3.74"D x 5.7"W x 2.95"H (9.50 x 14.5 x 7.49 cm)
PS5R-SC, -SD	80%	PS5R-SE	4.76"D x 1.81"W x 4.53"H (12.1 x 4.6 x 11.5 cm)
PS5R-Q, -F, -G	83%	PS5R-F	5.51"D x 4.53"W x 4.72"H (14.0 x 11.5 x 12.0 cm)
PS5R-E	85%	PS5R-G	5.51"D x 7.87"W x 4.72"H (14.0 x 19.99 x 12.0 cm)
PS5R-SE	82%	Weight	
Output Current rating @ 12 VDC		PS5R-A	0.33 lb (0.15 kg)
PS5R-A	0.6A, 7.5W	PS5R-B	0.37 lb (0.17 kg)
PS5R-B	1.2A, 15W	PS5R-C	0.79 lb (0.36 kg)
PS5R-C	2.5A, 30W	PS5R-SC	0.55 lb (0.25 kg)
Current rating @ 24 VDC		PS5R-D	0.86 lb (0.39 kg)
PS5R-A	0.3A, 7.5W	PS5R-SD	0.63 lb (0.29 kg)
PS5R-B	0.6A, 15W	PS5R-Q	1.7 lb (0.8 kg)
PS5R-C, -SC	1.3A, 30W	PS5R-E	1.3 lb (0.59 kg)
PS5R-D	2.1A, 50W	PS5R-SE	1.0 lb (0.44 kg)
PS5R-SD	2.5A, 60W	PS5R-F	2.6 lb (1.2 kg)
PS5R-Q	3.1A, 75W	PS5R-G	4.4 lb (1.9 kg)
PS5R-E	4.2A, 100W	Approvals	UL and CUL listed, File #E177168; CE certified; PS5R-SC/SD/SE; UL1604 listed for Hazardous Locations; PS5R-SC/SD Class 2 rated
PS5R-SE	3.75A, 90W		
PS5R-F	5A, 120W		
PS5R-G	10A, 240W		



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PS5R SERIES

WIRING



ORDERING INFORMATION

MODEL

PS5R-A12
 PS5R-A24
 PS5R-B12
 PS5R-B24
 PS5R-C12
 PS5R-C24
 PS5R-SC24
 PS5R-D24
 PS5R-SD24
 PS5R-Q24
 PS5R-E24
 PS5R-SE24
 PS5R-F24
 PS5R-G24

DESCRIPTION

Switching Power Supply, 12 VDC, 7.5W (0.6A)
 Switching Power Supply, 24 VDC, 7.5W (0.3A)
 Switching Power Supply, 12 VDC, 15W (1.2A)
 Switching Power Supply, 24 VDC, 15W (0.6A)
 Switching Power Supply, 12 VDC, 30W (2.5A)
 Switching Power Supply, 24 VDC, 30W (1.3A)
 Switching Power Supply, 24 VDC, 30W (1.3A), Slim-Line
 Switching Power Supply, 24 VDC, 50W (2.1A)
 Switching Power Supply, 24 VDC, 60W (2.5A), Slim-Line
 Switching Power Supply, 24 VDC, 75W (3.1A)
 Switching Power Supply, 24 VDC, 100W (4.2A)
 Switching Power Supply, 24 VDC, 90W (3.75A), Slim-Line
 Switching Power Supply, 24 VDC, 120W (5A)
 Switching Power Supply, 24 VDC, 240W (10A)