

# PWR-PS5R Series

## Switching Power Supplies



### Description

Dataforth's new PWR-PS5R series sets new standards for switching power supply technology. Combining rugged, compact enclosures, incorporating all international standards and approvals, and offering customers a broad selection of inputs and outputs, the PWR-PS5R series makes your power supply choice a simple one. The PWR-PS5R series is UL, C-UL and TUV Approved, CE Compliant, and UL 508 Listed. Models are available with output ratings from 7.5W to 100W with 24VDC output voltages. Customers may choose from a very wide range of input voltages (85 to 264VAC, and 105 to 370VDC compatible), making the PWR-PS5R series an unbeatable package of versatility.

### ► Features

- Universal AC Input (85 to 264VAC)
- DC Compatible Input (105 to 370VDC)
- Unique Spring-Up Terminals
- DIN Rail or Panel Mount
- Five Different Output Capacities: 7.5W to 100W
- UL, C-UL, and TUV Approvals
- CE Compliant, UL 508 Listed
- Certified to EN60950
- IP20 Protection (EN60529)
- Compliant with EMC Directives EN50081-2 and EN50082-2

### Specifications PWR-PS5R Series

Model	PWR-PS5RA	PWR-PS5RB	PWR-PS5RC	PWR-PS5RD	PWR-PS5RE
Input	100 to 240VAC nominal; 85 to 264VAC, 105 to 370VDC compatible				100 to 120VAC 200 to 240VAC (Jumper Selectable)
Frequency	47 to 63Hz				
Input Current	0.17A at 100V 0.11A at 200V	0.3A at 100V 0.2A at 200V	0.68A at 100V 0.45A at 200V	1.15A at 100V 0.75A at 200V	2.5A at 100V 1.5A at 200V
Output Voltage & Current Ratings	24V, 0.3A	24V, 0.6A	24V, 1.3A	24V, 2.1A	24V, 4.2A
Temperature Change	0.05%				
Ripple Voltage	2% p-p maximum (including noise)				
Overcurrent Protection	105% minimum				
Overvoltage Protection	120% minimum (Zener-limiting)		120% minimum, auto reset		
Dielectric Strength	Between input and output terminals: 3,000VAC, 1 minute Between input terminals and housing: 2,000VAC, 1 minute Between output terminal and housing: 500VAC, 1 minute				
Insulation Resistance	Between input and output terminals/input terminal and housing: 100MΩ minimum (500VDC megger)				
Operating Temperature	-10 to +60°C				
Storage Temperature	-30 to +85°C				
Operating Humidity	20 to 90% RH (avoid condensation)				
Dimensions (w x d)	1.77" x 2.76" (45mm x 70mm)	1.77" x 3.74" (45mm x 95mm)	3.54" x 3.74" (90mm x 95mm)	3.54" x 3.74" (90mm x 95mm)	5.71" x 3.74" (145mm x 95mm)
All H = 2.95" (75mm)					
Terminal Screw	M3.5 Phillips screws in spring-up terminals				

### Ordering Information

Model	Power	Output
PWR-PS5RA	7.5W	24VDC/0.3A
PWR-PS5RB	15W	24VDC/0.6A
PWR-PS5RC	30W	24VDC/1.3A
PWR-PS5RD	50W	24VDC/2.1A
PWR-PS5RE	100W	24VDC/4.2A

### PWR-PS5RC/D

