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Find the *IDEC PS5R-SD24* at our website: *Click HERE*

PS5R Standard Series
Switching Power Supplies

Key features of the PS5R standard series include:

- Wide power range: 7.5W-240W
- Universal input :
  7.5W-50W: 85-264V AC/105-370V DC
  100W: 85-132V AC/170-264V AC
  240-370V DC (selectable)
  75W, 120W, 240W: 85-264V AC/110-350V DC
- Overcurrent/overvoltage protection
- Power Factor Correction (75W, 120W, 240W models)
  EN61000-3-3
  EN61000-3-2
- Voltage adjustment +10%
- Spring-up crew terminal, IP20 (finger-safe)
- DIN rail or panel surface mount
- Approvals:
  CE marked
  UL 508 Listed
  UL, c-UL
  TÜV approved
  EMC Directives:
  EN50081-2
  EN50082-2
  EN61000-6-2
  LVD EN60950:2000

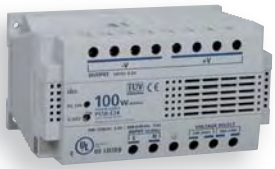


UL 508 Listed
File #E177168

Cert No.
BL980213332392

Part Numbers

Item	Watts	Rated Voltage	Rated Current	Part Number
	7.5	5V DC	1.5A	PS5R-A05
		12V DC	0.6A	PS5R-A12
		24V DC	0.3A	PS5R-A24
	15	5V DC	2.5A	PS5R-B05
		12V DC	1.2A	PS5R-B12
		24V DC	0.6A	PS5R-B24
	30	12V DC	2.5A	PS5R-C12
		24V DC	1.3A	PS5R-C24
	50	24V DC	2.1A	PS5R-D24

Item	Watts	Rated Voltage	Rated Current	Part Number
	75	24V DC	3.1A	PS5R-Q24
	100	24V DC	4.2A	PS5R-E24
	120	24V DC	5A	PS5R-F24
	240	24V DC	10A	PS5R-G24

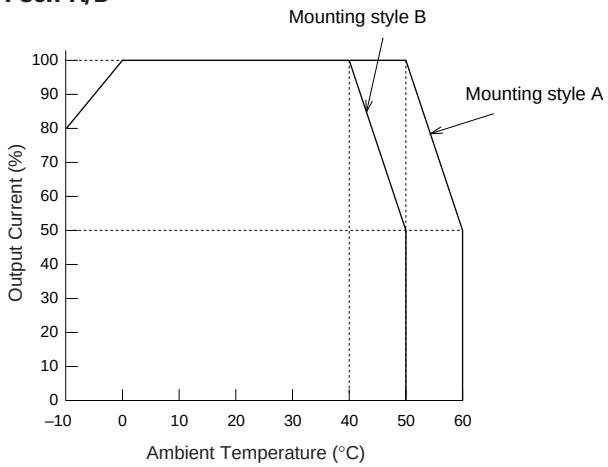
Specifications

Part Numbers		**PS5R-A05**	**PS5R-B05***	—	—		—		—
		PS5R-A12	**PS5R-B12**	**PS5R-C12**	—		—		—
		PS5R-A24	**PS5R-B24**	**PS5R-C24**	**PS5R-D24**	**PS5R-Q24**	**PS5R-E24**	**PS5R-F24**	**PS5R-G24**
Output Capacity		7.5W	15W	30W	50W	75W	100W	120W	240W
Input	**Input Voltage (single-phase, 2-wire)**	100 to 240V AC nominal (85 to 264V AC), 50/60Hz (47 to 63Hz) 110 to 340V DC nominal (105 to 370V DC)					100 to 120V AC, 50/60Hz 200 to 240V AC, 50/60Hz (jumper selectable) 240 to 370V DC	100 to 240V AC, 50/60Hz, 110 to 340V DC	
	Input Current (typical)	0.17A at 100V AC	0.3A at 100V AC	0.68A at 100V AC	1.15A at 100V AC	1.1A at 100V AC	2.5A at 100V AC 1.5A at 200V AC	1.8A at 100V AC	4A at 100V AC
	Internal Fuse Rating	2A	2A	3.15A	3.15A	3.15A	4A	4A	6.3A
	Inrush Current	50A maximum (at cold start at 200V AC)				70A maximum (at cold start at 230V AC)	50A maximum (at cold start at 200V AC)	70A maximum (at cold start at 230V AC)	
	Leakage Current (at no load)	0.75mA maximum (60Hz, measured in conformance with UL, CSA, VDE)							
	Typical Efficiency	69% at 5V 75% at 12V 79% at 24V		75% at 12V 75% at 24V	79% at 24V	83% at 24V	85% at 24V	83% at 24V	
	Overvoltage Protection	Outputs turns off at 105% (typical)							
Output	**Voltage and Current Ratings**	5V, 1.5A 12V, 0.6A 24V, 0.3A	5V, 2.5A 12V, 1.2A 24V, 0.6A	12V, 2.5A 24V, 1.3A	24V, 2.1A	24V, 3.1A	24V, 4.2A	24V, 5A	24V, 10A
	Voltage Adjustments	±10% (V.ADJ screw on top)							
	Output Holding Time	20ms minimum (at full rated input and output)							
	Rise Time	200ms maximum (at full rated input and output)							150ms max.
	Line Regulation	0.4% maximum							
	Load Regulation	1.5% maximum							
	Fluctuation due to Ambient Temperature Change	0.05% maximum							
	Ripple Voltage	2% peak to peak maximum (including noise)							
	Overload Protection	120% typical (Zener-limiting)		120% typical, auto reset					
Operation Indicator		LED (green)							
Parallel Operation Allowed		PS5R-A	PS5R-B	PS5R-C	PS5R-D	PS5R-Q	PS5R-E	PS5R-F	PS5R-G
		No				Yes	No	Yes	
Dielectric Strength		Between input and output terminals: 3,000V AC, 1 minute Between input terminals and housing: 2,000V AC, 1 minute Between output terminal and housing: 500V AC, 1 minute							
Insulation Resistance		Between input and output terminals/input terminals and housing: 100MΩ minimum (500V DC megger)							
Operating Temperature		–10˚ to +60˚C (14˚ to 140˚F) (see derating curves)							
Storage Temperature		–30˚ to +85˚C (-22˚ to 185˚F)							
Operating Humidity		20 to 90% relative humidity (no condensation)							
Vibration Resistance		45m/s^2, 10 to 55Hz, 2 hours on each of 3 axes				10 to 50Hz, 0.75mm p-p, 2 hrs on each of 3 axes			
Shock Resistance		300m/s^2 (30G), 3 shocks in each of 6 directions							
Approvals		Conforms to EMC Directives EN50081-2 & EN50082-2. LVD Directive EN60529 — Certified to EN60950. UL508 listed. UL, c-UL, TUV approved. CE marked. EN61000-3-2							
Weight		150g	170g	360g	390g	800g	600g	1200g	2000g
Termination		Spring-up, fingersafe terminals with captive M3.5 screws							
IP protection		IP20 (finger safe)							
Dimensions H x W x D (mm)		75 x 45 x 70	75 x 45 x95	75 x 90 x 95	75 x 90 x 95	120 x 85 x 140	75 x 145 x 95	120 x 115 x140	120 x 200x 140
Dimensions H x W x D (inches)		2.95 x 1.77 x 2.76	2.95 x 1.77 x 3.74	2.95 x 3.54 x 3.74	2.95 x 3.54 x 3.74	4.72 x 3.35 x 5.52	2.95 x 5.71 x 3.74	4.72 x 4.53 x 5.52	4.72 x 7.87 x 5.51

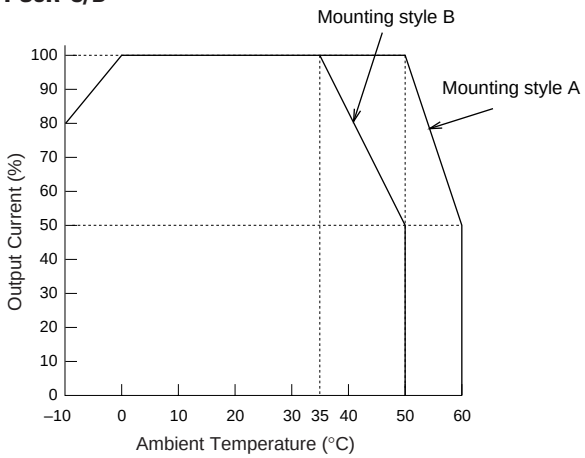
1. For dimensions, see page 117.
2. For usage instructions, see page 116.
3. *12.5W for 5VDC model.

Temperature Derating Curves

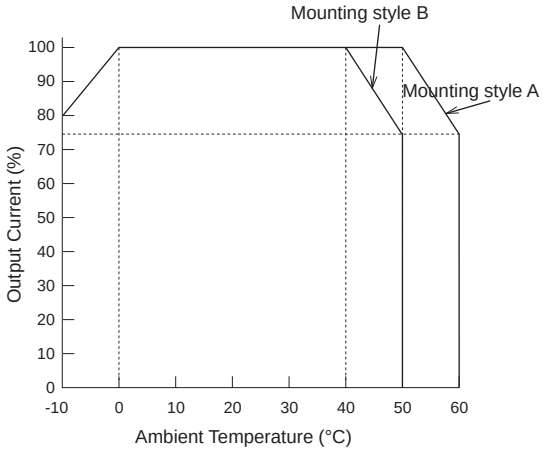
PS5R-A/B



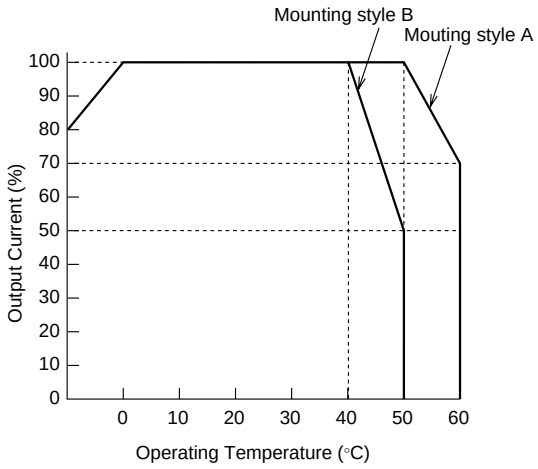
PS5R-C/D



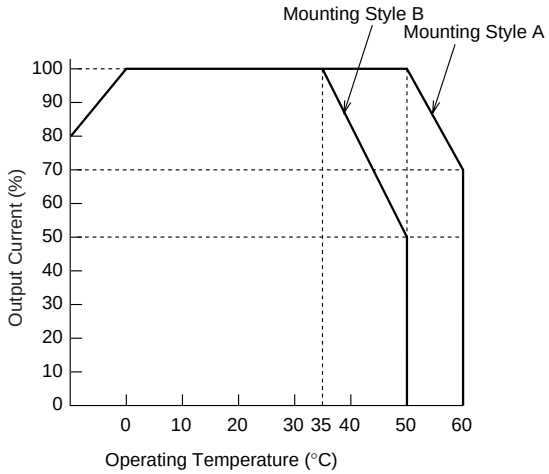
PS5R-E



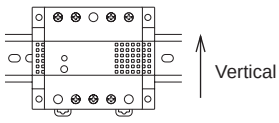
PS5R-Q



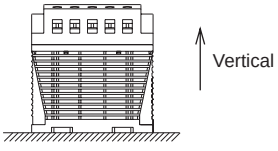
PS5R-F/G



A Mounting (standard)



B Mounting (Facing Upward)



Accessories

Part Numbers: PS5R Accessories

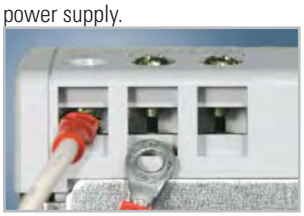
Appearance	Description	Part Number
	DIN rail (1000mm)	BNDN1000
	DIN rail end clip	BNL5

Installation Instructions

Time-Saving Spring-up Terminals

The innovative terminals on the PS5R series use a special, spring-loaded screw. This makes installation as easy as pushing down and turning with a screwdriver. Installation time is cut in half since the screws do not need to be backed out to install wiring. The screws are held captive once installed and are 100% finger-safe. Screw terminals accept bare wire or ring or fork connectors.

1. Insert the wire connector into the slot on the side of the power supply.



2. Using a flat head or Phillips screwdriver, push down and turn the screw.

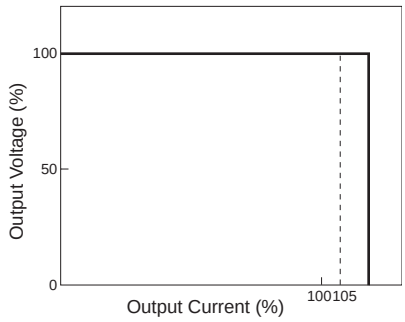
The wire is now connected, and the screw terminal is finger-safe!

Front Panel (terminals)

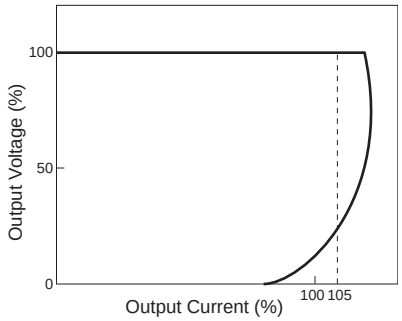
Markings	Name	Description
V. ADJ	Voltage adjustment	Adjusts within ±10%; turn clockwise to increase output voltage
DC ON	Operation indicator	Green LED is lit when output voltage is on
+V, –V	DC output terminals	+V: Positive output Terminal –V: Negative output terminal
⏚	Frame ground	Ground this terminal to reduce high-frequency currents caused by switching
L, N	Input terminals	Accept a wide range of voltages and frequencies (no polarity at DC input)
NC	No connection	Do not insert wires here, as this may damage the power supply

Overcurrent Protection Characteristics

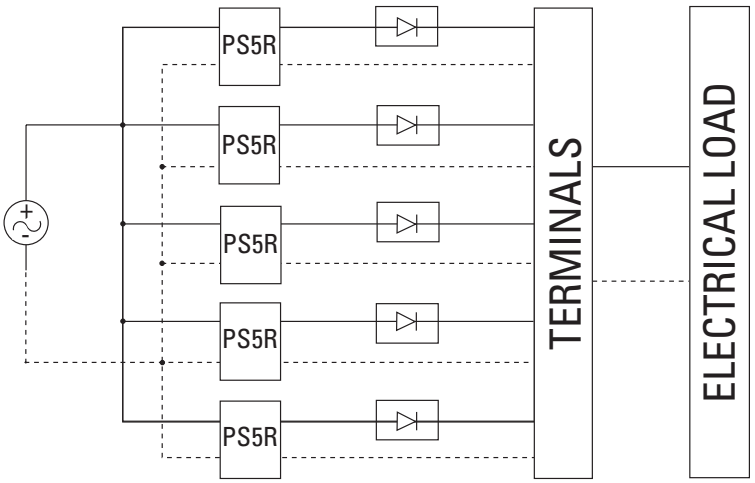
PS5R-A/B



PS5R-C/D/E



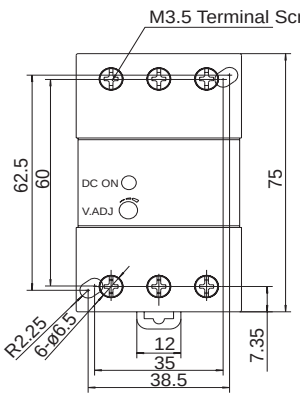
Parallel Operation



1. Parallel operation only recommended for PS5R-Q24, PS5R-F24 and PS5R-G24.
2. Factory recommended diode ST Microelectronics BYV54V-50, BYV54V-100, BYV54V-200, BYV541V-200 or with equivalent electrical specifications.
3. Using the voltage adjustment make sure out-voltage is the same for all power supplies.

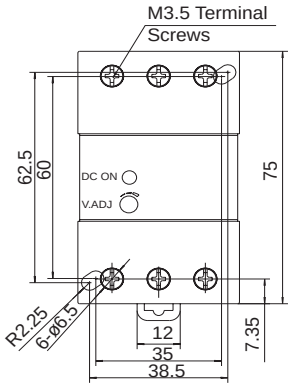
Dimensions

PS5R-A (7.5W)



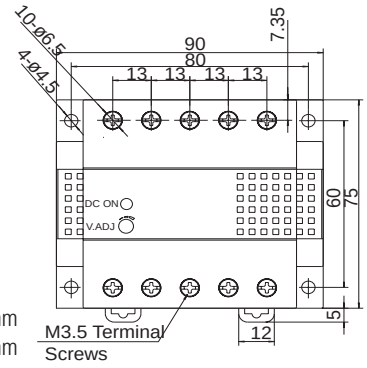
Height 75.0mm
Width 45.0mm
Depth 70.0mm

PS5R-B (15W)



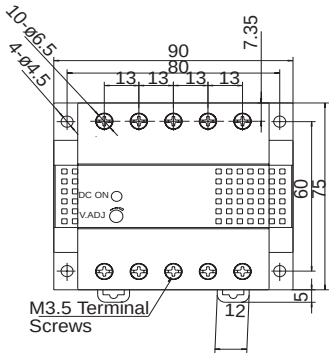
Height 75.0mm
Width 45.0mm
Depth 95.0mm

PS5R-C (30W)



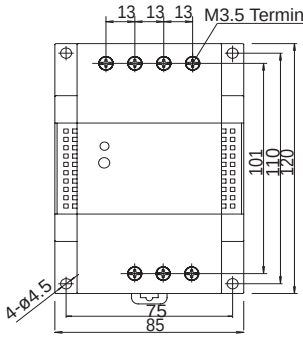
Height 75.0mm
Width 90.0mm
Depth 95.0mm

PS5R-D (50W)



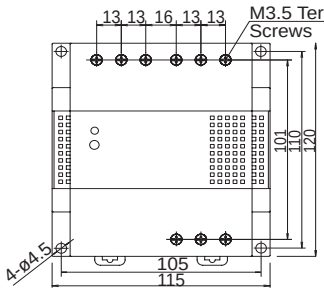
Height 75.0mm
Width 90.0mm
Depth 95.0mm

PS5R-Q (75W)



Height 120.0mm
Width 85.0mm
Depth 140.0mm

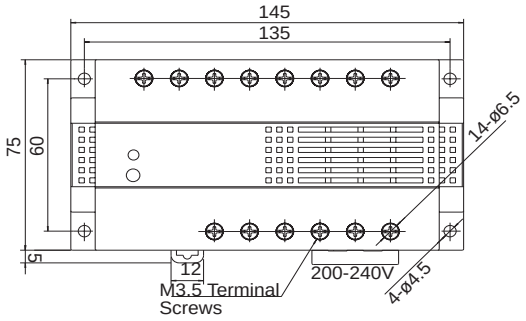
PS5R-F (120W)



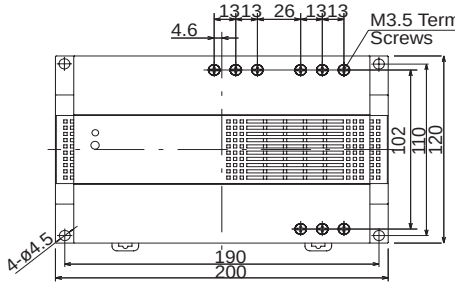
Height 120.0mm
Width 115.0mm
Depth 140.0mm

PS5R-E (100W)

Height 120.0mm
Width 115.0mm
Depth 140.0mm



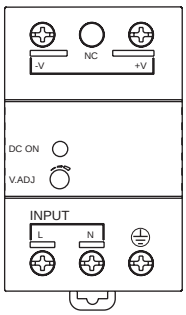
PS5R-G (240W)



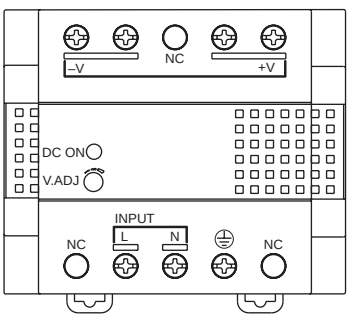
Height 120.0mm
Width 200.0mm
Depth 140.0mm

Terminal Markings

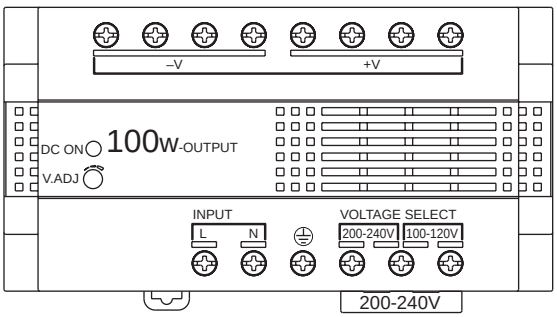
PS5R-A/B



PS5R-C/D/Q/F/G



PS5R-E



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