

Selection Guide

Appearance		PS5R Slim Line	PS5R	PS3L	
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Page		107	113	118	
Housing			Plastic	Metal	
Mounting		DIN Rail or surface mount		Panel or bracket mount	
Wattage Range		10W to 240W	7.5W to 240W	10W to 300W	
Input Voltage		85 to 264 V AC, 100-370 V DC (100-350V DC, 120W & 240W)	85 to 264V AC, 105 to 370V DC	85 to 264V AC, 105 to 370V DC	
	5VDC	2.0A	1.5A, 2.5A	2A, 3A, 6A	
Output Current Ratings	12VDC	1.2A, 2.5A	0.6A, 1.2A, 2.5A	0.90A, 1.4A, 2.5A, 4.3A, 8.5A, 13A	
output ourroin natingo	24VDC	0.65A, 1.3A, 2.5A, 3.75A, 5A, 10A	0.30A, 0.60A, 1.3A, 2.1A, 3.1A, 4.2A, 5A, 10A	0.50A, 0.70A, 1.3A, 2.2A, 4.5A, 6.5A, 12.5A	
	5VDC	69%	69%	70-75%	
Typical Efficiency	12VDC	75%, 78%	73% to 75%	74% to 80%	
Typical Efficiency	24VDC	80% to 84%	75% to 85%	78% to 82%	
Voltage Adjustments		+/-10% (V.ADJ control on front)			
Ripple Voltage		2% peak to p	to peak max (including noise) 160mV maximum		
Overvoltage Protection (input)		120% or more, auto reset	120% typical		
Overcurrent Protection (or	ıtput)	105% min shutdown	105% minimum (Zener or auto reset)		
Operating Temperature		-10° to +60°C (14° to 140°F)			
Termination		M3.5 phillip/slotted, spring loaded, captive (fingersafe) IEC Style screw terminals (fingersafe)			
Approvals		UL1604 Listed File#E234997	UL508 Listed File #E177168 TUY PRODUCT SERVICE Cert No. BL980213332392	UL508 Listed File #E177168	

PS5R Slim Line Series Switching Power Supplies

Key features of the PS5R Slim Line series include:

- · Lightweight and compact in size
- Wide power range: 10W-240W
- Universal input: 10W to 90W: 85-264V AC/100-370V DC 120W and 240W: 85-264V AC/100-350V DC
- Power Factor Correction for 60W to 240W (EN61000-3-2)
- Meets SEMI F47 Sag Immunity (120W & 240W only)
- Approved for Class 1, Div. 2 Hazardous Locations
- Overcurrent protection, auto-reset
- Overvoltage protection, shut down
- Spring-up screw terminal type, IP20
- DIN rail or panel surface mount

Approvals:
 CE Marked
 TÜV
 c-UL, UL508

UL1310 (PS5R-SB, -SC, -SD)

UL1604 (Hazardous locations) EN50178:1997

LVD: EN60950:2000

EMC: Directive EN61204-3:2000 (EMI: Class B, EMS: Industrial)











Designed with Accessibility & Convenience in Mind!

DEC

S5R-SG24

DC Low Indicator (15W, 120W & 240W Slim Line Only) ------

The indicator turns on when the output voltage drops below 80% of the rated value. This assists in troubleshooting power supply problems.

DC ON Indicator

The indicator turns on when the unit is powered up. This is a convenient way to know when the power supply is receiving power.

Output Voltage Adjustment

The output voltage can be easily adjusted within ± 10% of the rated voltage.



Fingersafe, Spring-up Screw Terminals

Don't worry about losing screws or getting an inadvertent shock from a terminal. The terminals are captive spring-up screws, which makes using them as easy as pushing a screw down and tightening it. They are shock and vibration resistant, and work with ring lugs, fork connectors or stripped wire connections. The terminals are rated IP20 (when tightened) meaning they are recessed to keep fingers and objects from touching the input contacts.

Universal Input Power

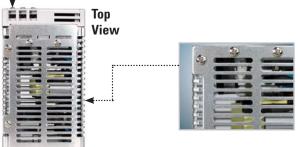
The applied input power has a range of 85-264V AC (100-350V DC) without the use of jumpers or slide switches. This makes IDEC power supplies suitable for use anywhere in the world.

Long Life Expectancy

IDEC power supplies are very reliable, with a life expectancy of 70,000 hrs. (minimum) or longer, depending on usage. Power factor correction has also been included to minimize harmonic distortion, resulting in a longer operating life and increased reliability.

Output Channel

With very low output ripples of less than 1% peak to peak, the 120W and 240W power supplies are some of the best in the industry. The output comes with overload protection that avoids damaging the power supply and the spring-up, fingersafe, screw terminals add a level of safety and ease for the user. The 240W power supply also has the convenience of two output terminals.



Ventilation Grill

Provides cooling for the power supply and prevents small objects from falling into the power supply circuitry.

Communication & Networking

Part Numbers

				Part IV
Item	Watts	Rated Voltage	Rated Current	Part Number
0 0	10	5V DC	2.0A	PS5R-SB05
TE TO THE TOTAL THE T		12V DC	1.2A	PS5R-SB12
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15	24V DC	0.65A	PS5R-SB24
© © © CC	30	12V DC	2.5A	PS5R-SC12
SOUTH STATE OF THE		24V DC	1.3A	PS5R-SC24
Dec OCTOT De CONTROL D	60	24V DC	2.5A	PS5R-SD24

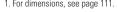
nders				
Item	Watts	Rated Voltage	Rated Current	Part Number
DIFFUT CONTROL OF THE PROPERTY	90	24V DC	3.75A	PS5R-SE24
The second of th	120	24V DC	5A	PS5R-SF24
BONDER STATE OF THE PARTY OF TH	240	24V DC	10A	PS5R-SG24

Accessories

Appearance	Description	Part Number
	Panel Mounting Bracket for PS5R-SB	PS9Z-5R1B
Page	Panel Mounting Bracket for PS5R-SB (flat side mounting)	PS9Z-5R2B
	Panel Mounting Bracket for PS5R-SC and PS5R-SD	PS9Z-5R1C
1 -	Panel Mounting Bracket for PS5R-SE	PS9Z-5R1E
-	Panel Mounting Bracket for PS5R-SF & PS5R-SG	PS9Z-5R1G
	DIN rail (1000mm)	BNDN1000
	DIN rail end clip	BNL5

Specifications

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0.4% maximum				
1.5% maximum 0.8% max				
0.05% degree C maximum				
cluding noise				
eset				
-10 to +65°C (14 to 149°F)				
-25 to 75°C (-13 to +167°F)				
EMC: EN61204-3 (EMI: Class B, EMS: Industrial), c-UL (CSA 22.2 No. 14), UL1604, UL508, LVD: EN60950, EN50178				
– SEMI F47				
x 149.5				
ature -25 to 75°C (-13 to +167°F) lity 20 to 90% relative humidity (no condensation) Frequency 10 to 55Hz, Amplitude 0.375mm 300m/s² (30G) 3 times each in 6 axes EMC: EN61204-3 (EMI: Class B, EMS: Industrial), c-UL (CSA 22.2 No. 14), UL1604, UL508, LVD: EN60950, EN50178				



Dimensions and Terminal Markings

PS5R-SB

Height 90mm Width 22.5mm Depth 95mm



PS5R-SC PS5R-SD

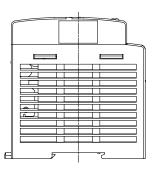
Height 95.0mm Width 36.0mm Depth 108.0mm



PS5R-SE

Height 115.0mm Width 46.0mm Depth 121.0mm









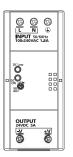






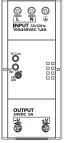
PS5R-SF

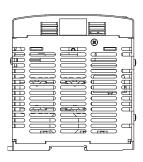
Height 115.0mm Width 50.0mm Depth 129.0mm

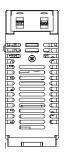


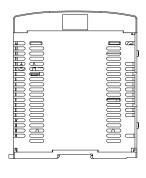


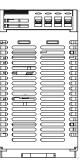
Height 125.0 mm Width 80.0 mm Depth 149.5 mm









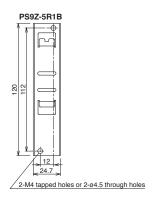


Front Panel (terminals)

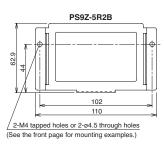
Markings	Name	Description	
V. ADJ	Voltage adjustment	Adjusts within ±10%; turn clockwise to increase output voltage.	
DC ON	Operation indicator	Green LED is lit when output voltage is on.	
DC Low	Output indicator	Amber LED is lit when output voltage drops below 80% of rated voltage.	
+V, -V	DC output terminals	+V: Positive output Terminal -V: Negative output terminal	
<u>+</u>	Frame ground	Ground this terminal to reduce high-frequency noise caused by switching power supply.	
L, N	Input terminals	Accept a wide range of voltages and frequencies (no polarity at DC input).	

Mounting Bracket Dimensions (mm)

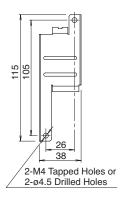
PS9Z-5R1B (for PS5R-SB)



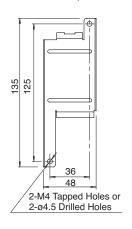
PS9Z-5R2B (for PS5R-SB)



PS9Z-5R1C (for PS5R-SC & PS5R-SD)



PS9Z-5R1E (for PS5R-SE)



PS9Z-5R1G (for PS5R-SF & PS5R-SG)

