Selection Guide

			PS5R Slim Line	PS5R	PS3L				
	Appearance		NEW Models CL NI Without Starts CL NI Without Starts CONTRACT CONT						
	Page		107 113 Plastic		118				
	Housing			Metal					
	Mounting		DIN R	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				
	Output Current Ratings	5VDC	2.0A	1.5A, 2.5A	2A, 3A, 6A				
1		12VDC	1.2A, 2.5A	0.6A, 1.2A, 2.5A	0.90A, 1.4A, 2.5A, 4.3A, 8.5A, 13A				
		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				
	5V		69%	69%	70-75%				
	Typical Efficiency	12VDC	75%, 78% 73% to 75%		74% to 80%				
	Typical Enterency	24VDC	80% to 84% 75% to 85%		78% to 82%				
	Voltage Adjustments		+/-10% (V.ADJ control on front)						
	Ripple Voltage		2% peak to	160mV maximum					
	Overvoltage Protection (input)		120% or more, auto reset	120% typ					
	Overcurrent Protection (ou	itput)	105% min shutdown	105% minimum (Zene	er or auto reset)				
	Operating Temperature		-10° to +60°C (14° to 140°F)						
	Termination		M3.5 phillip/slotted	IEC Style screw terminals (fingersafe)					
			CE CUDus UL1604 Listed File#E234997	CCC COUS UL508 Listed File #E177168	CE cubus UL508 Listed File #E177168				
	Approvals		(SEMI F47 120W & 240W only)	PRODUCT SERVICE Cert No. BL980213332392					



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PSSR-SC2

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 ΤÜV 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)



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OCE

IDEC

Designed with Accessibility & Convenience in Mind!

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.

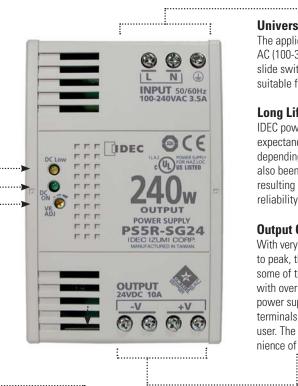
Output Voltage Adjustment

The output voltage can be easily adjusted within \pm 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.



Top

View

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.

Sensors

PLCs

				Part N	umbers				
tem	Watts	Rated Voltage	Rated Current	Part Number	Item	Watts	Rated Voltage	Rated Current	
6	10	5V DC	2.0A	PS5R-SB05					PS5F
		12V DC	1.2A	PS5R-SB12		90	24V DC	3.75A	
	15	24V DC	0.65A	PS5R-SB24					
C C C C C C C C C C C C C C C C C C C		12V DC	2.5A	PS5R-SC12		120	24V DC	5A	
	30	30	24V DC	1.3A	Protection 1974				
C C C C C C C C C C C C C C C C C C C	60	24V DC	2.5A	PS5R-SD24		240	24V DC	10A	

Accessories

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

Specifications

		5V DC output	PS5R-SB05	_	_	-	_	_			
Part Numbers 24V DC output 24V DC output			PS5R-SB12	PS5R-SC12	_	_	_	_			
			PS5R-SB24	PS5R-SC24	PS5R-SD24	PS5R-SE24	PS5R-SF24	PS5R-SG24			
Uuq	put Capacity		15W (5V Model is 10W) 30W 60W 90W 120W 240W								
Input	Input Voltage (single-phase, 2	-wire)	85 to 264V AC, 85 to 264V AC, 100 to 370V DC 100 to 350V DC								
	Input Current	100VAC	0.45A	0.9A	1.7A	2.3A	1.8A	3.5A			
	(maximum)	200VAC	0.3A	0.6A	1.0A	1.4A	1.0A	1.7A			
	Internal Fuse Rating		2A	3.	15A	4A					
	Inrush Current (cold start)		50A maximum (at 200V AC)								
	Leakage Curren	t (at no load)	132V AC: 0.38 mA maximum 264V AC: 0.75 mA maximum		0.75mA ma	ximum	1mA	maximum			
	Typical Efficiency	5V DC	69%	-	-	-	-	-			
		12V DC	75%	78%	-	-	-	-			
		24V DC	79%	80%	83%	82%		84%			
	Querret Comment	5V DC	2.0A	-	-	-	-	-			
	Output Current Ratings	12V DC	1.2A	2.5A	-	-	-	-			
		24V DC	0.65A	1.3A	2.5A	3.75A	5A	10A			
	Voltage Adjustn	ient	±10% (V. ADJ control on front)								
	Output Holding Time		20ms minimum (at rated input and output)								
	Starting Time		200ms maximum	-	-	-	650ms maximum	500ms maximum			
Ħ	Rise Time		100ms maximum (at rated input and output) 200ms maximum								
Output	Line Regulation		0.4% maximum								
	Load Regulation		1.5% maximum 0.8% max								
	Temperature Re	gulation	0.05% degree C maximum								
	Ripple Voltage		2% peak to peak maximum (including noise) 1% peak to peak maximum (including nois								
	Overcurrent Protection		105% or more, auto reset 105 to 130%, auto reset 103 to 110%, auto reset 120% min. SHUTDOWN								
	Overvoltage Pro										
	Operation Indicator					LED (green)) (
Voltage Low Indication		ation	LED (amber)		-	— Creared: 2000.V/ A.C. 1 aria) (amber)			
Dielectric Strength		Between Input and Ground: 2000 V AC, 1 minute Between input and output: 3000V AC, 1 minute; Between output and ground: 500V AC, 1 minute.									
nsu	lation Resistance)	Between Input & Output Terminals: 100 MΩ Min								
)pe	rating Temperatu	re	-10 to +65°C (14 to 149°F) -10 to 60°C (14 to 140°F)								
Stor	age Temperature		-25 to 75°C (-13 to +167°F)								
Ope	rating Humidity		20 to 90% relative humidity (no condensation)								
/ibr	ation Resistance		Frequency 10 to 55Hz, Amplitude 0.375mm								
Sho	ck Resistance		300m/s ² (30G) 3 times each in 6 axes								
Approvale		EMC: EN61204-3 (EMI: Class B, EMS: Industrial), c-UL (CSA 22.2 No. 14), UL1604, UL508, LVD: EN60950, EN50178									
Approvals			UL1310 Class 2, c-UL (C	CSA 22.2 No. 213	3 and 223)	– SEMI F47					
Harmonic Directive		N/A EN61000-3-2 A14 class A									
Weight (approx.) Terminal Screw		160g 250g 285g 440g 630g 1000g									
		M3.5 slotted-Phillips head screw (screw terminal type) IP20 fingersafe									
IP protection											
	ensions H x W x	• •	90 x 22.5 x 95	95 x 36 x 108		115 x 46 x 121	115 x 50 x 129 125 x 80 x 149.5				
Dimensions H x W x D (inches)			3.54 x 0.89 x 3.74 3.74 x 1.42 x 4.25 4.53 x 1.81 x 4.76 4.53 x 1.97 x 5.08 4.92 x 3.15 x 5.85								

PLCs

IDEC



DC Low

+V, -V

(-)

L, N

Output indicator

Frame ground

Input terminals

DC output terminals

below 80% of rated voltage +V: Positive output Terminal

-V: Negative output terminal

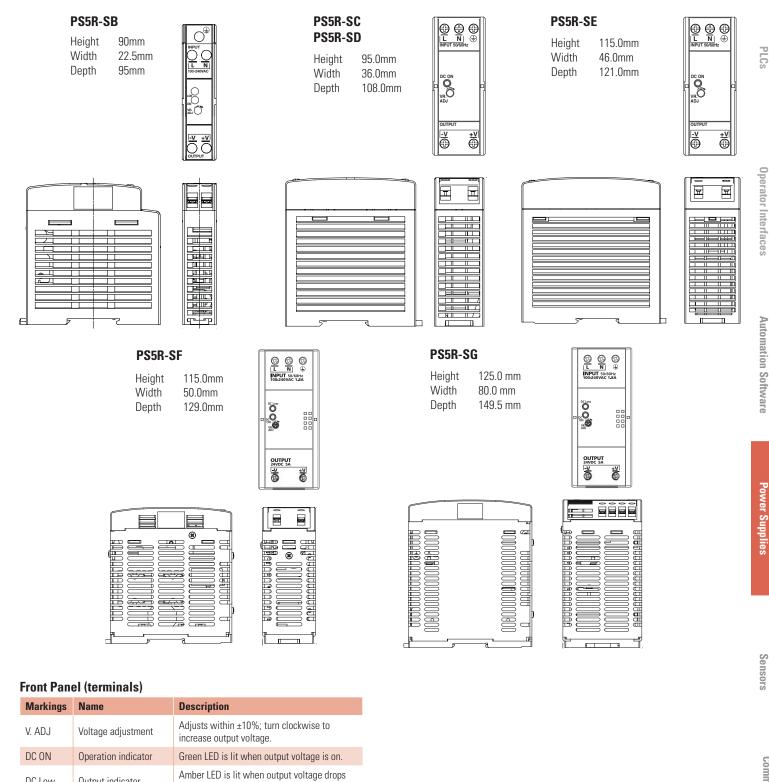
cies (no polarity at DC input).

Ground this terminal to reduce high-frequency

noise caused by switching power supply. Accept a wide range of voltages and frequen-



Dimensions and Terminal Markings



Mounting Bracket Dimensions (mm)

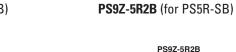
PS9Z-5R1B (for PS5R-SB)

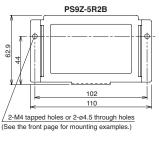
PS9Z-5R1B

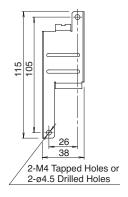
24.7

2-M4 tapped holes or 2-ø4.5 through holes

1120

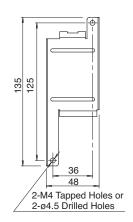




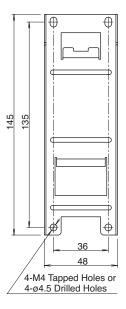


PS9Z-5R1C (for PS5R-SC & PS5R-SD)

PS9Z-5R1E (for PS5R-SE)



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



PLCs

Communication & Networking