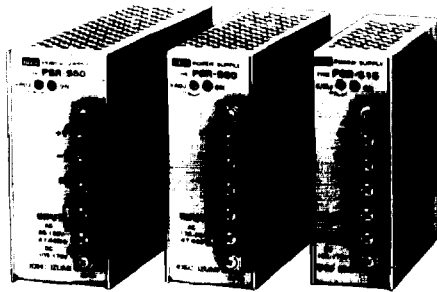


## Compact, General Purpose 15W, 30W, and 50W Switching Power Supplies



### Features

- Ideal for general power switching applications
- Compact, lightweight and energy efficient
- High performance and reliability
- A variety of output capacities combined with the most widely-used input and output voltages
- Wide input voltage ranges, 100V nominal units also accept DC power
- Features short-circuit (overcurrent) protection
- Includes an LED operation indicator
- Parallel operation for the 30W and 50W units

### PSR-S Series Part List

Output	Part No.	Output Rating		Input Voltage
15W	PSR-S15-05-AC100	5V	3A	100V nominal:
	PSR-S15-12-AC100	12V	1.2A	85-132V AC,
	PSR-S15-15-AC100	15V	1A	105-170V DC
	PSR-S15-24-AC100	24V	0.6A	compatible
	PSR-S15-05-AC200	5V	3A	200V nominal:
	PSR-S15-12-AC200	12V	1.2A	170-264V AC
	PSR-S15-15-AC200	15V	1A	
	PSR-S15-24-AC200	24V	0.6A	
30W	PSR-S30-05-AC100	5V	6A	100V nominal:
	PSR-S30-12-AC100	12V	2.5A	85-132V AC,
	PSR-S30-15-AC100	15V	2A	105-170V DC
	PSR-S30-24-AC100	24V	1.3A	compatible
	PSR-S30-05-AC200	5V	6A	200V nominal:
	PSR-S30-12-AC200	12V	2.5A	170-264V AC
	PSR-S30-15-AC200	15V	2A	
	PSR-S30-24-AC200	24V	1.3A	
50W	PSR-S50-05-AC100	5V	10A	100V nominal:
	PSR-S50-12-AC100	12V	4.5A	85-132V AC,
	PSR-S50-15-AC100	15V	3.6A	105-170V DC
	PSR-S50-24-AC100	24V	2.3A	compatible
	PSR-S50-05-AC200	5V	10A	200V nominal:
	PSR-S50-12-AC200	12V	4.5A	170-264V AC
	PSR-S50-15-AC200	15V	3.6A	
	PSR-S50-24-AC200	24V	2.3A	

### Mounting Brackets (Optional)

Mtg Plate	Small L-Bracket	Long L-Bracket	DIN Rail Mtg Bkt	Used With	
PSR-SA15	PSR-SB15	PSR-SC15	PSR-SD25	PSR-S15	15W
PSR-SA30	PSR-SB30	PSR-SC30	PSR-SD25	PSR-S30	30W
PSR-SA50	PSR-SB50	PSR-SC50	PSR-SD55	PSR-S50	50W

### Front Panel (Terminals)

Terminal	Name	Description
V. ADJ	Voltage Adjustment	Adjust $\pm 10\%$ . Turn clockwise to increase output voltage.
ON	Op. Indicator	Red LED is lit when output voltage is on.
+V, -V	DC Output Terminals	+V: Positive output terminal. -V: Negative output terminal.
FG	Frame Ground	Ground FG terminal to reduce high-frequency currents caused by switching.
INPUT	Input Term.	Accepts wide range of voltages, frequencies.

Note: See page L-3 for installation and operation details.

### Specifications

Part No.	PSR-S15, 15W	PSR-S30, 30W	PSR-S50, 50W
Input	<b>Input Voltage (Sng-phase, 2-wire)</b>		
	100V nom: 85-132V AC, 105-170V DC compatible 200V nom: 170-264V AC		
	<b>Frequency</b>		
	47 to 440Hz		
	<b>Input Current</b>		
	0.35A @ 100V 0.2A @ 200V		
Output	<b>Input Current</b>		
	0.65A @ 100V 0.4A @ 200V		
	<b>Input Current</b>		
	1.1A @ 100V 0.75A @ 200V		
	<b>Inrush Current</b>		
	100V nominal: 20A maximum 200V nominal: 40A maximum		
<b>Leakage Current</b>			
100V nominal: 0.5 mA maximum 200V nominal: 1 mA maximum			
<b>Efficiency</b>			
68% min.    72% min.    76% min.			
Output	<b>Voltage and Current Ratings</b>		
	5V, 3A    5V, 6A    5V, 10A 12V, 1.2A    12V, 2.5A    12V, 4.5A 15V, 1A    15V, 2A    15V, 3.6A 24V, 0.6A    24V, 1.3A    24V, 2.3A		
	<b>Adjustments</b>		
	Voltage Range: $\pm 10\%$ (V.ADJ term. - front)		
	<b>Output Holding Time</b>		
	10 msec minimum (at rated input and output)		
	<b>Rise Time</b>		
	200 msec maximum (at rated input/output)		
	<b>Input Fluctuation</b>		
	0.4% maximum		
<b>Load Fluctuation</b>			
0.6% maximum			
<b>Temp. Change</b>			
0.02% per °C maximum (0 to 50°C)			
<b>Ripple Voltage</b>			
1% + 50 mV p-p maximum (including noise)			
<b>Overcurrent Protection</b>	Short-circuit auto reset	120% (typ.), inverted-L drop, auto reset	
<b>Parallel Operation</b>	Not Possible	Possible	Possible
<b>Operation Indicator</b>	LED		
<b>Dielectric Strength</b>	Between input terminal and output terminal or housing: 1,500V AC, 1 minute Betw. output term. and housing: 500V AC, 1 min.		
<b>Insulation Resistance</b>	Between input terminal and output terminal or housing: 100M $\Omega$ min. (500V DC megger)		
<b>Operating Temperature</b>	0 to 50°C (up to 60°C by derating)		
<b>Storage Temperature</b>	-30 to 80°C		
<b>Operating Humidity</b>	20 to 90% RH		
<b>Vibration Resistance</b>	1G (10 to 55Hz)		
<b>Shock Resistance</b>	100N (approx. 10G)		
<b>Dimensions All: 3.86"H (99mm)</b>	1.37"W x 3.51"D (35 x 90mm)	1.56"W x 4.68"D (40 x 120mm)	1.76"W x 5.46"D (45 x 140mm)
<b>Terminal Screw</b>	M3.5 slotted, Phillips-head screw		
<b>Housing Color</b>	Light gray		