

Specifications

Type		PS3L-A (10W)	PS3L-B (15W)	PS3L-C (30W)	PS3L-D (50W)	PS3L-E (100W)	PS3L-F (150W)	PS3L-G24 (300W)	
Input	Input Voltage (Single-phase two-wire)	100 to 240V AC (Voltage range: 85 to 264V AC/105 to 370V DC)			100 to 240V AC (Voltage range: 85 to 264V AC/105 to 350V DC)				
	Frequency (AC input only)	47 to 63 Hz							
	Input Current (Typical)	100V	0.25A	0.37A	0.68A	0.68A	1.4A	2.0A	3.8A
		200V	0.16A	0.23A	0.45A	0.34A	0.65A	0.95A	2.0A
	Inrush Current (Cold start)	100V	20A max.	20A max.	20A max.	30A max.	30A max.	30A max.	30A max.
		200V	40A max.	40A max.	40A max.	60A max.	60A max.	60A max.	60A max.
	Leakage Current	0.75 mA max. (60Hz; UL, CSA, VDE)							
Power Factor (Typical)	—				0.99 (100V AC input, rated output), 0.95 (200V AC, rated output)				
Efficiency (Typical)	5V DC: 70%	5V DC: 73%	5V DC: 75%	—	—	—	—	—	
	12V DC: 74%	12V DC: 75%	12V DC: 77%	12V DC: 76%	12V DC: 78%	12V DC: 80%	—	—	
	24V DC: 78%	24V DC: 78%	24V DC: 79%	24V DC: 79%	24V DC: 81%	24V DC: 83%	24V DC: 81%	—	
Output	Rated Voltage/Current	5V/2A 12V/0.9A 24V/0.5A	5V/3A 12V/1.4A 24V/0.7A	5V/6A 12V/2.5A 24V/1.3A	— 12V/4.3A 24V/2.2A	— 12V/8.5A 24V/4.5A	— 12V/13A 24V/6.5A	— — 24V/12.5A	
	Adjustable Voltage Range	±10% (V.ADJ control on front)							
	Output Holding Time	20 msec minimum (at the rated input and output)							
	Start Time	200 msec maximum (at the rated input and output)				500 msec maximum (at the rated input and output)			
	Rise Time	100 msec maximum (at the rated input and output)				200 msec maximum (at the rated input and output)			
	Regulation	Input Fluctuation	5V: 20 mV maximum, 12V: 48 mV maximum, 24V: 96 mV maximum						
		Load Fluctuation	5V: 40 mV maximum, 12V: 100 mV maximum, 24V: 150 mV maximum						
		Temperature Change (-10 to +50°C)	5V	50 mV maximum		5V: 60 mV maximum		—	
			12V	120 mV maximum		12V: 150 mV maximum		—	
	Ripple Voltage	-10 to 0°C	5V: 160 mV maximum, 12V/24V: 180 mV maximum (Note 1)						200 mV maximum (Note 1)
0 to +50°C		5V: 120 mV maximum, 12V/24V: 150 mV maximum (Note 1)						—	
Supplementary Functions	Overcurrent Protection	105% (Typical), Automatic reset (Note 2)							
	Overvoltage Protection	120% min. (Note 3)	Output off at 120%, reset when input voltage is restored. (Note 4)						
	Operation Indicator	Provided (Green LED)							
Dielectric Strength	Between input and output terminals:3,000V AC, 1 minute Between input terminal and housing:2,000V AC, 1 minute Between output terminal and housing:500V AC, 1 minute								
Insulation Resistance	Between input and output terminals:100MΩ minimum (500V DC megger) Between input terminal and housing:100MΩ minimum (500V DC megger)								
Operating Temperature (Note 5)	-10 to +70°C					-10 to +60°C		-10 to +65°C	
Storage Temperature	-30 to +75°C								
Operating Humidity	20 to 90% RH (no condensation, no freezing)								
Vibration Resistance	10 to 55 Hz, 20 m/s ² constant, sweep cycle 1 minute, 2 hours each in 3 axes								
Shock Resistance	200 m/s ² , 11 ms, 1 shock each in 3 axes								
Dimensions H X W X D (mm)	97 × 35 × 86	97 × 35 × 86	96 × 35 × 114.5	97 × 37 × 147.5	97 × 54 × 200	97 × 62 × 200	158 × 63 × 230		
Weight (Approx.)	240g	250g	340g	350g	630g	730g	1550g		
Terminal Screw	M4 slotted-Phillips head screw (screw terminal type)								

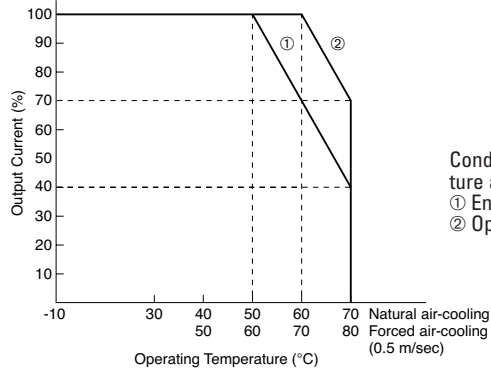


1. Including noise. Measured at the terminal block according to EIAJ.
2. Protection against short-circuit and overcurrent of 30 seconds maximum. Overload for 30 seconds or longer may damage the internal elements.
3. Zener limiter method
4. Turn the input off and after one minute, turn the input on again.
5. Refer to the derating characteristics. No freezing. The maximum temperature is the temperature at 100% output current (natural air-cooling) in the derating characteristics.

Characteristics

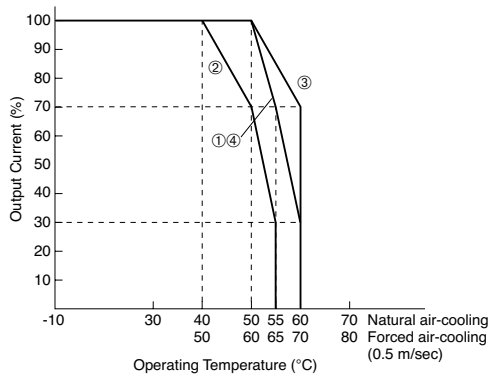
Operating Temperature vs. Output Current Characteristics (Derating Curves)

PS3L-A/B/C/D

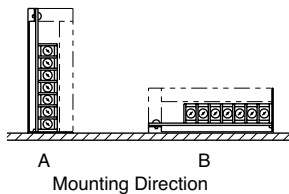


Conditions: At rated input/output (operating temperature is the temperature around the power supply)
 ① Enclosed (Mounting Directions A and B)
 ② Open frame (Mounting Directions A and B)

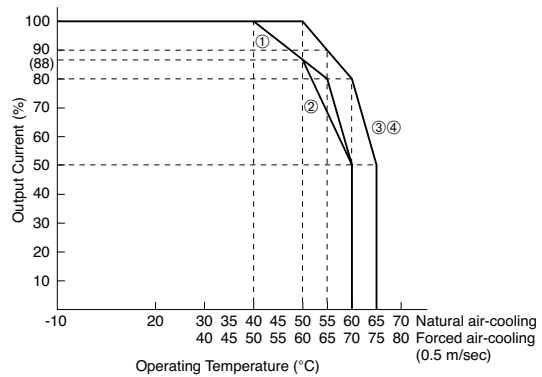
PS3L-E/F



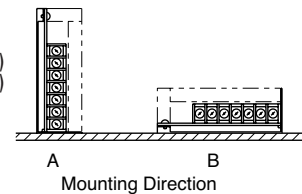
Conditions: At rated input/output (operating temperature is the temperature around the power supply)
 ① Enclosed (Mounting Direction A)
 ② Enclosed (Mounting Direction B)
 ③ Open frame (Mounting Direction A)
 ④ Open frame (Mounting Direction B)



PS3L-G24

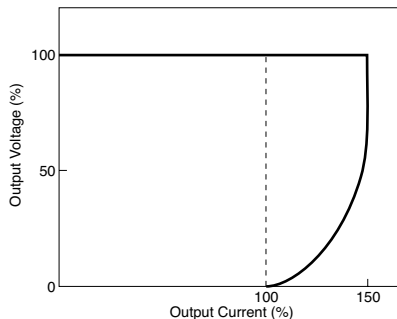


Conditions: At rated input/output (operating temperature is the temperature around the power supply)
 ① Enclosed (Mounting Direction A)
 ② Enclosed (Mounting Direction B)
 ③ Open frame (Mounting Direction A)
 ④ Open frame (Mounting Direction B)



Overcurrent Protection Characteristics

PS3L-A/B



PS3L-C/D/E/F/G

