

PS3L Switching Power Supplies

Universal AC Input (100 to 240V AC) for worldwide applications. (EN61000-3-2/-3, EN61000-6-2/-4)

- Universal AC input (DC compatible)
- Finger-safe terminal available
- Complete protection against induced current - FCC Class A, VCCI Class A
- CE marked (conforming to low voltage and EMC directives)
- Limits for harmonic current (50 to 300W)



Applicable Standards	Mark	File No. or Organization
UL 508 CSA C22.2 No.14 (Screw Terminal)		UL/c-UL Listing File No. E177168
UL 1950 CSA C22.2 No.60950-1 (Connector)		UL/c-UL Recognition File No. E141913
EN60950-1 EN50178 EN55011 Class A EN61000-3-2/-3 EN61000-6-2/-4 EN50081-2	 	TÜV SÜD EU Low Voltage and EMC Directives

PS3L

Output Capacity	Open Frame/Right-angle Screw Terminal	Enclosed/Finger-safe Terminal	Input Voltage
30W	PS3L-C①AF	PS3L-C①AFF	100 to 240V AC (Voltage range: 85 to 264V AC/105 to 370V DC)
50W	PS3L-D①AF	PS3L-D①AFF②	100 to 240V AC (Voltage range: 85 to 264V AC/105 to 350V DC)
100W	PS3L-E①AF③	PS3L-E①AFF②③	
150W	PS3L-F①AF③	PS3L-F①AFF②③	
300W	PS3L-G24AF③	PS3L-G24AFF②③	

Note: In place of ①, specify an output voltage code from the chart below.
 In place of ②, specify R if remote control is required.
 In place of ③, specify T if DIN rail mount housing type is required.

Part No. Development

PS3L- AF

(Power Supply)

Output Capacity

Code
 C: 30W
 D: 50W
 E: 100W
 F: 150W
 G: 300W

Option

Blank: No option

R: Remote control (Enclosed type, 50W or over)
 T: DIN rail mount housing type (100W or over)

Enclosure and Terminal Style Code

Blank: Open frame/Right-angle screw terminal
 A: Open frame/Pin terminal
 C: Enclosed/Right-angle screw terminal
 D: Enclosed/Pin terminal
 E: Open frame/Straight screw terminal
 F: Enclosed/Finger-safe terminal
 G: Enclosed/Straight screw terminal
 H: Fully-enclosed/Right-angle screw terminal

Input Voltage Code

AF: 100 to 240V AC

Output Voltage Code

05: 5V (PS3L-A, -B, -C only)
 12: 12V (except for PS3L-G)
 24: 24V

Terminal Style

Horizontal terminal

Vertical terminal

Enclosure Style

Type C
(Enclosed)

Type H
(Fully-enclosed)

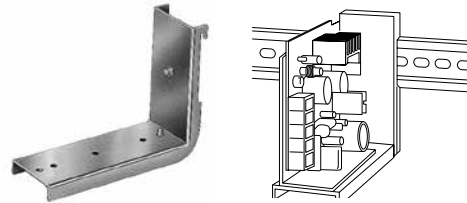
PS3L Switching Power Supplies

Mounting Bracket (Optional)

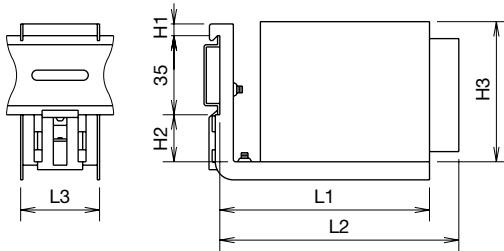
Applicable Model	Mounting Plate	L-shaped Bracket (1)	L-shaped Bracket (2)	Dimensions
PS3L-C	PS9Z-3E1C	PS9Z-3E2C	PS9Z-3E3C	See page 7.
PS3L-D	PS9Z-3E1D	PS9Z-3E2D	PS9Z-3E3D	
PS3L-E	PS9Z-3L1F	PS9Z-3E2E	PS9Z-3E3E	
PS3L-F	PS9Z-3L1F	PS9Z-3E2F	PS9Z-3E3F	
PS3L-G	PS9Z-3L1G	—	—	

DIN-Rail Mounting Bracket (Optional)

Applicable Model	Part No.
PS3L-C	PS9Z-3E4C
PS3L-D	PS9Z-3E4D
PS3L-E	PS9Z-3E4F
PS3L-F	

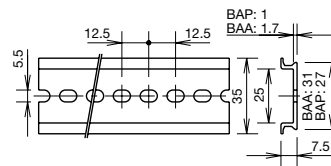
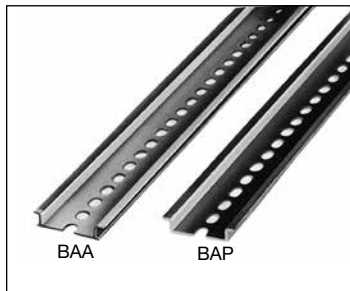


Note: DIN-rail mounting brackets are ordered separately from switching power supplies.
Adding "T" to the part no. specifies the housing with a built-in bracket for DIN rail mounting (applicable to 100W units and larger).



Part No.	Applicable Model	L1 (mm)	L2 (mm)	L3 (mm)	H1 (mm)	H2 (mm)	H3 (mm)
	PS3L-C	134	156	35	5.2	20.8	96
PS9Z-3E4D	PS3L-D	186	178.8	39.5			
PS9Z-3E4F	PS3L-E	216.8	233.3	65	11.2	20	97
	PS3L-F						

DIN Rail (Optional)

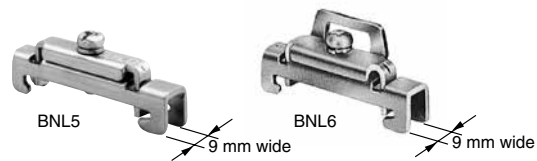


Part No.	Ordering No.	Length	Material	Weight	Package Quantity
BAA1000	BAA1000PN10	1000 mm	Aluminum	Approx. 200g	10
BAP1000	BAP1000PN10	1000 mm	Steel	Approx. 320g	10

End Clip (Optional)

Item	Part No.	Ordering No.	Package Quantity
End Clip	BNL5	BNL5PN10	10
	BNL6	BNL6PN10	10

Installed on a DIN rail, the end clips prevent power supplies from sliding sideways.



Ordering Information

When ordering, specify the Part No. and required quantity.

[Example]

When ordering 10 pieces of PS3L switching power supplies; output capacity 100W, output voltage 24V, enclosed/finger-safe terminal, DIN rail mount housing type, specify the following Part No.

PS3L-E24AFFT 10 pcs

PS3L Switching Power Supplies

Specifications

Part No.		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 (Note 1) (Voltage range: 85 to 264V AC/105 to 370V DC)		100 to 240V AC (Note 1) (Voltage range: 85 to 264V AC/105 to 350V DC)				
	Frequency (AC input only)	47 to 63 Hz						
	Input Current (Typical) (at rated output)	100V AC	0.68A	0.68A	1.4A	2.0A	3.8A	
		200V AC	0.45A	0.34A	0.65A	0.95A	2.0A	
	Inrush Current (Cold start)	100V AC	20A max.	30A max.	30A max.	30A max.	30A max.	
		200V AC	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, rated output), 0.95 (200V AC, rated output)					
Efficiency (Typical)	5V DC: 75% 12V DC: 77% 24V DC: 79%		— 12V DC: 76% 24V DC: 79%		— 12V DC: 78% 24V DC: 81%			
	— — —		— — —		— — —			
Output	Rated Voltage/Current		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 min. (at rated input and output)					
	Start Time		200 msec max. (at rated input and output)	500 msec max. (at rated input and output)				
	Rise Time		100 msec max. (at rated input and output)	200 msec max. (at rated input and output)				
	Regulation	Input Fluctuation		5V: 20 mV max., 12V: 48 mV max., 24V: 96 mV max.				
		Load Fluctuation		5V: 40 mV max., 12V: 100 mV max., 24V: 150 mV max.				
		Temperature Change (-10 to +50°C)		5V: 60 mV max. 12V: 150 mV max. 24V: 290 mV max.				
		Ripple Voltage	-10 to 0°C	5V: 160 mV max., 12V/24V: 180 mV max. (Note 2)				200 mV max. (Note 2)
			0 to +50°C	5V: 120 mV maximum, 12V/24V: 150 mV maximum (Note 2)				
	Supplementary Functions	Overcurrent Protection		105% min., Automatic reset (Note 3)				
Overvoltage Protection		Output off at 120%, reset when input voltage is restored. (Note 4)						
Operation Indicator		LED (green)						
Dielectric Strength		Between input and output terminals: 3,000V AC, 1 minute (at 25°C, 70% RH) Between input and ground terminals: 2,000V AC, 1 minute (at 25°C, 70% RH) Between output and ground terminals: 500V AC, 1 minute (at 25°C, 70% RH)						
Insulation Resistance		Between input and output terminals: 100MΩ minimum (500V DC megger) (at 25°C, 70% RH) Between input terminal and housing: 100MΩ minimum (500V DC megger) (at 25°C, 70% RH)						
Operating Temperature (Note 5)		-10 to +70°C (no freezing)		-10 to +60°C (no freezing)		-10 to +65°C (no freezing)		
Storage Temperature		-30 to +75°C (no freezing)						
Operating Humidity		20 to 90% RH (no condensation)						
Storage Humidity		20 to 90% RH (no condensation)						
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 (mm)		96H × 35W × 114.5D	97H × 37W × 147.5D	97H × 54W × 200D	97H × 62W × 200D	158H × 63W × 230D		
Weight (Approx.)		340g	350g	630g	730g	1550g		
Terminal Screw								

Note 1: DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC. When using on DC input, connect a fuse to the input terminal for DC input protection.

Note 2: Including noise. Measured at the terminal block according to EIAJ.

Note 3: Protection against short-circuit and overcurrent of 30 seconds maximum. Overload for 30 seconds or longer may damage the internal elements.

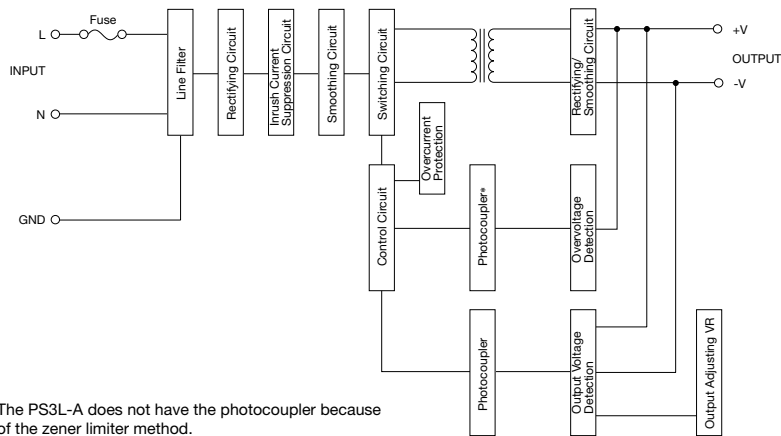
Note 4: Turn the input off and after one minute, turn the input on again.

Note 5: Refer to the derating characteristics. The maximum temperature is the temperature at 100% output current (natural air-cooling) in the derating characteristics.

PS3L Switching Power Supplies

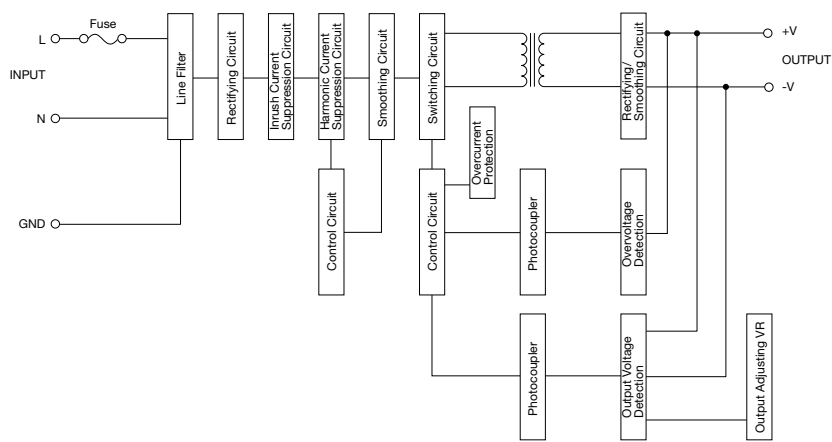
Internal Schematic Diagrams

PS3L-C

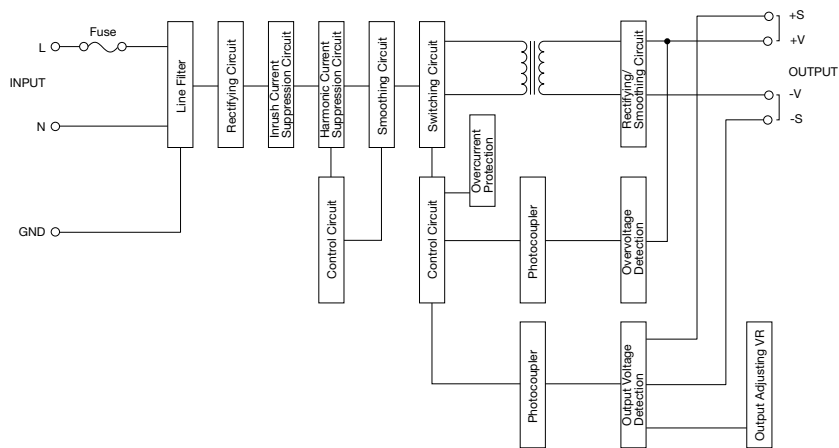


Note*: The PS3L-A does not have the photocoupler because of the zener limiter method.

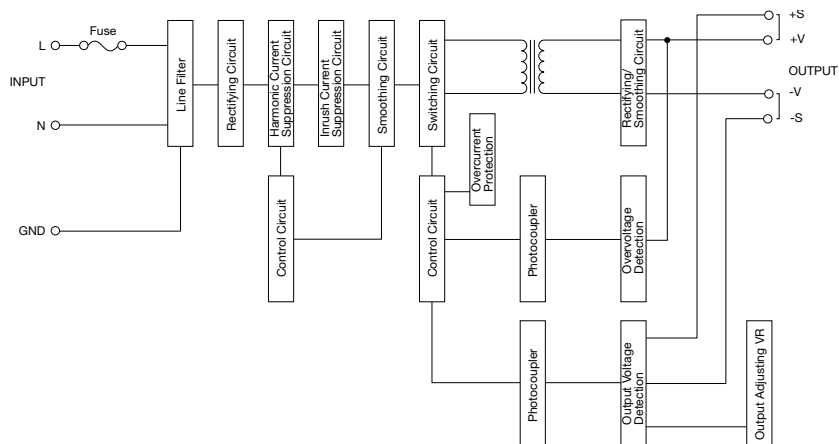
PS3L-D



PS3L-E/F

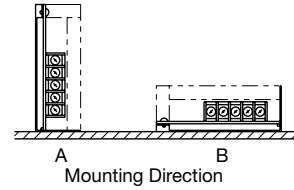
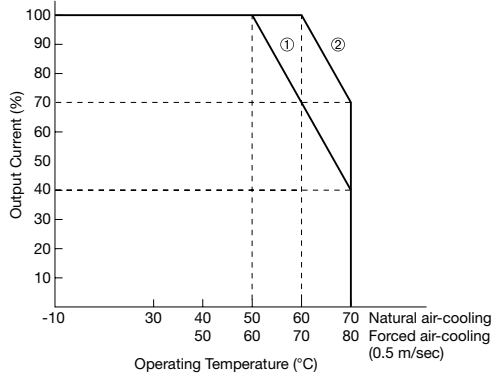


PS3L-G



Characteristics

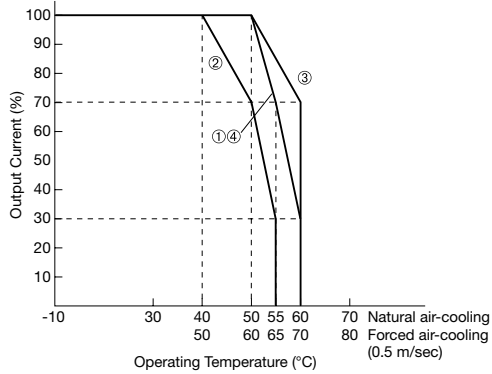
Operating Temperature vs. Output Current Characteristics (Derating Curves) (PS3L-C/D)



Conditions: At rated input/output (operating temperature is the temperature around the power supply)

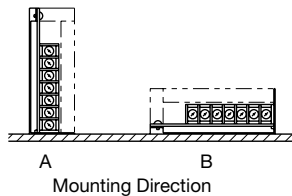
- ① Enclosed (Mounting Directions A and B)
- ② Open frame (Mounting Directions A and B)

(PS3L-E/F)

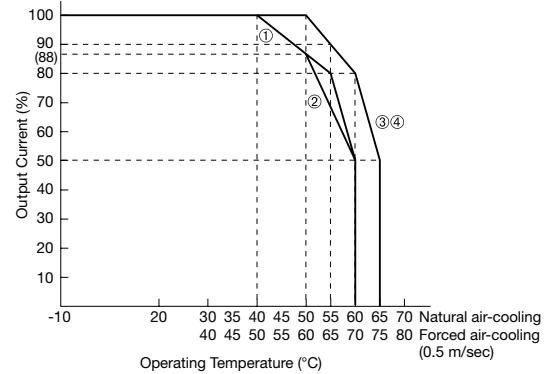


Conditions: At rated input/output (operating temperature is the temperature around the power supply)

- ① Enclosed (Mounting Direction A)
- ② Enclosed (Mounting Direction B)
- ③ Open frame (Mounting Direction A)
- ④ Open frame (Mounting Direction B)

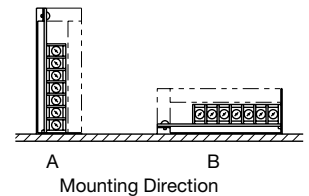


(PS3L-G24)



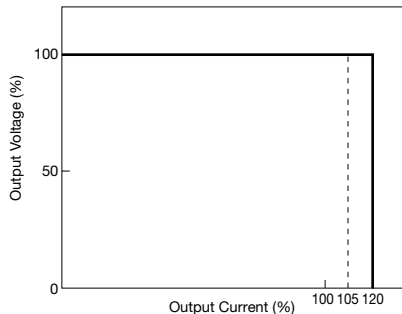
Conditions: At rated input/output (operating temperature is the temperature around the power supply)

- 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 (Ta = 25°C)

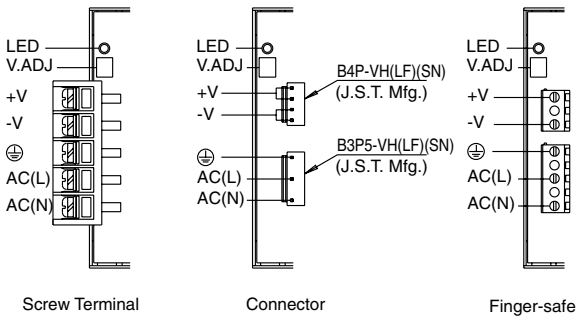
(PS3L-C/D/E/F/G)



PS3L Switching Power Supplies

Terminal Markings

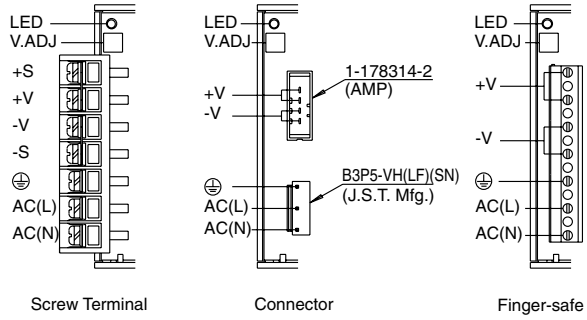
(PS3L-C/D)



Applicable connectors for the connector type.

Housing (supplied with power supply)
 Input connector: VHR-5N (J.S.T. Mfg.)
 Output connector: VHR-4N (J.S.T. Mfg.)
Lead wire: AWG #22 to #18
 SVH-21T-1.1/SVH-21T-P1.1 (J.S.T. Mfg.)

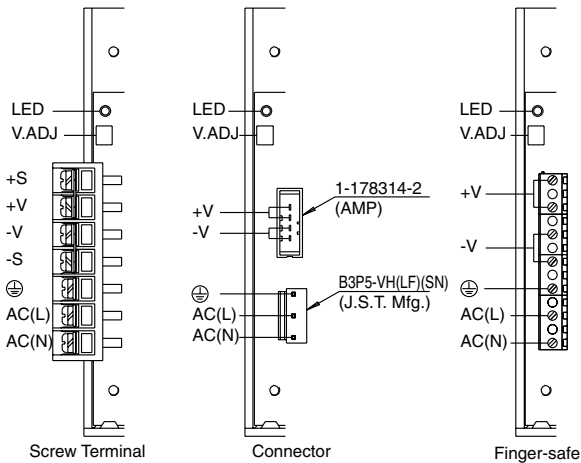
(PS3L-E/F)



Applicable connectors for the connector type.

Housing (supplied with power supply)
 Input connector: VHR-5N (J.S.T. Mfg.)
 Output connector: 1-178288-4 (AMP)
Lead wire: AWG #20 to #16
 For input connector: SVH-21T-1.1/SVH-21T-P1.1 (J.S.T. Mfg.)
 For output connector: 0-175218-2 (AMP)

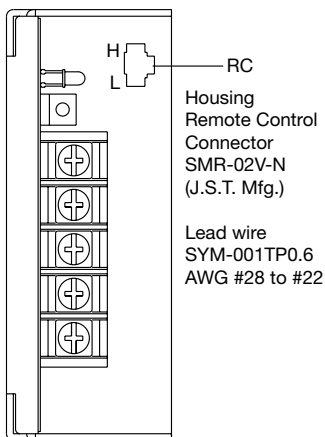
(PS3L-G)



Applicable connectors for the connector type.

Housing (supplied with power supply)
 Input connector: VHR-5N (J.S.T. Mfg.)
 Output connector: 1-178288-4 (AMP)
Lead wire: AWG #20 to #16
 For input connector: SVH-21T-1.1/SVH-21T-P1.1 (J.S.T. Mfg.)
 For output connector: 0-175218-2 (AMP)

Remote Control Option

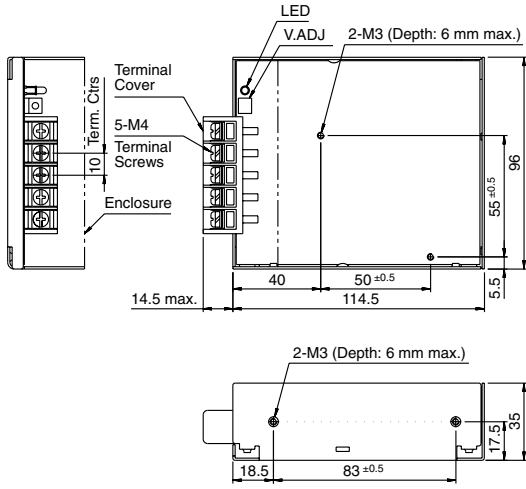


Marking	Name	Description
V.ADJ	Output Voltage Adjustment	• Allows adjustment within $\pm 10\%$. Turning clockwise increases the output voltage.
LED	Operation Indicator (Green)	• Lights on when the output voltage is on.
+S -S	Remote Sensing Terminal	• Compensates for voltage drops along the output line. Remove the jumpers when using remote sensing. • When remote sensing is not used, connect jumpers between terminals +S and +V and between terminals -S and -V. • Connect the load to terminals +V and -V. • Available on screw terminal types of 100W or over only.
+V -V	DC Output Terminals	• +V: Positive output terminal • -V: Negative output terminal
⊕	Ground Terminal	• Grounding the terminal reduces high-frequency currents caused by switching.
AC	Input Terminal	• Accepts a wide range of voltage and frequency. Polarity is irrelevant at DC input.
RC	Remote Control Terminal	• Turns output off while external voltage (4.5 to 12.5V) is applied (H: positive, L: negative). • Available on the remote control option type.

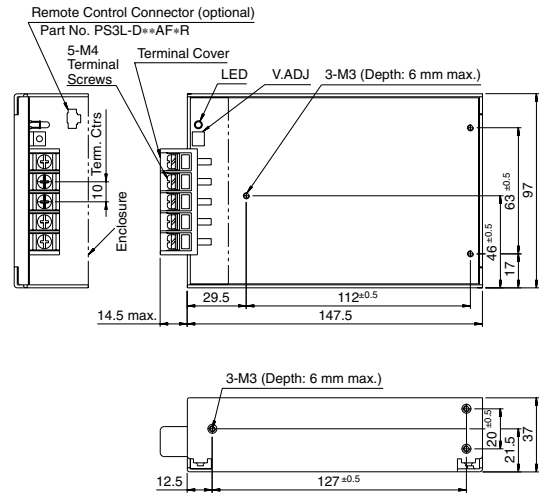
PS3L Switching Power Supplies

Dimensions (General Tolerance: ± 1 mm)

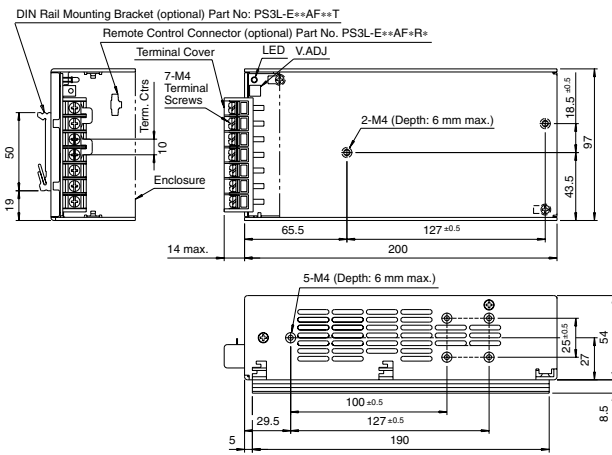
PS3L-C (30W)



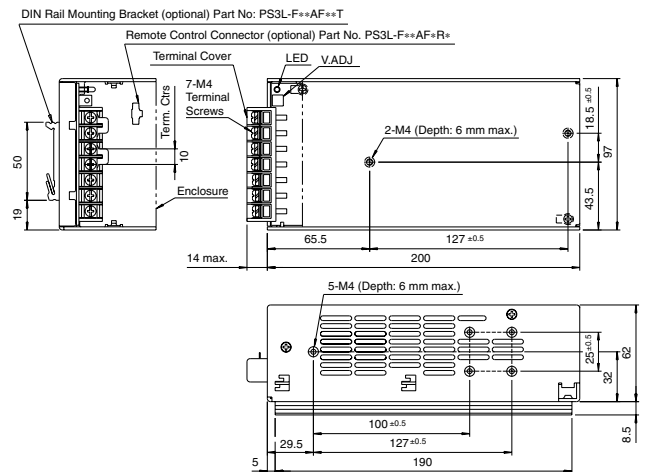
PS3L-D (50W)



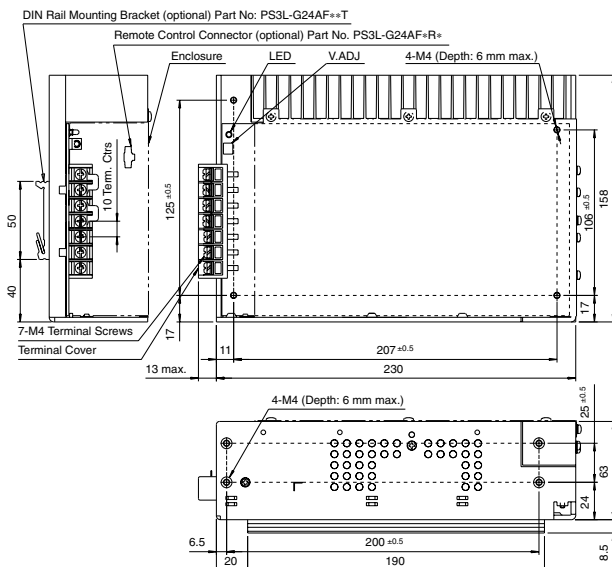
PS3L-E (100W)



PS3L-F (150W)



PS3L-G (300W)



Make sure that the mounting screws do not penetrate into the power supply unit for 6 mm or more.

All dimensions in mm.

PS3L Switching Power Supplies

Dimensions of Mounting Brackets PS9Z-3E1/PS9Z-3E2/PS9Z-3E3/PS9Z-3L1

General tolerance: ±1 mm

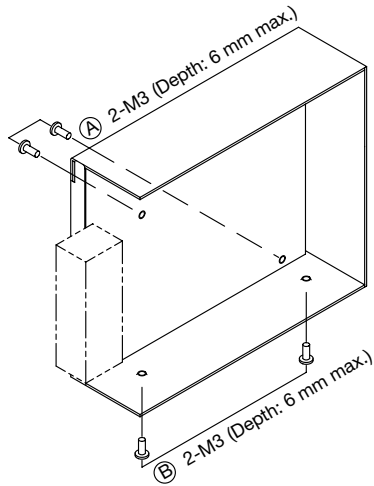
	Mounting Plate	L-shaped Bracket (1)	L-shaped Bracket (2)																																																																						
	<p>PS9Z-3E1C (For 30W)</p>	<p>PS9Z-3E2C (For 30W)</p>	<p>PS9Z-3E3C (For 30W)</p> <p>* PS9Z-3E3C: ø3.5</p>																																																																						
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	<p>PS9Z-3L1F (For 100W/150W)</p>	<p>PS9Z-3E2E/3E2F (For 100W/150W)</p>	<p>PS9Z-3E3E/3E3F (For 100W/150W)</p>																																																																						
	<p>PS9Z-3L1G (For 300W)</p>	<table border="1"> <thead> <tr> <th rowspan="2">Part No.</th> <th colspan="2">Dimensions (mm)</th> </tr> <tr> <th>W</th> <th>a</th> </tr> </thead> <tbody> <tr> <td>PS9Z-3E2E</td> <td>59</td> <td>34.5</td> </tr> <tr> <td>PS9Z-3E2F</td> <td>70</td> <td>40</td> </tr> </tbody> </table>	Part No.	Dimensions (mm)		W	a	PS9Z-3E2E	59	34.5	PS9Z-3E2F	70	40	<table border="1"> <thead> <tr> <th rowspan="2">Part No.</th> <th colspan="4">Dimensions (mm)</th> </tr> <tr> <th>W</th> <th>l</th> <th>a</th> <th>b</th> </tr> </thead> <tbody> <tr> <td>PS9Z-3E3E</td> <td>54</td> <td>32.5</td> <td>27</td> <td>12.5</td> </tr> <tr> <td>PS9Z-3E3F</td> <td>65</td> <td>40</td> <td>32.5</td> <td>20</td> </tr> </tbody> </table>	Part No.	Dimensions (mm)				W	l	a	b	PS9Z-3E3E	54	32.5	27	12.5	PS9Z-3E3F	65	40	32.5	20																																								
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PS9Z-3E2F	70	40																																																																							
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All dimensions in mm.

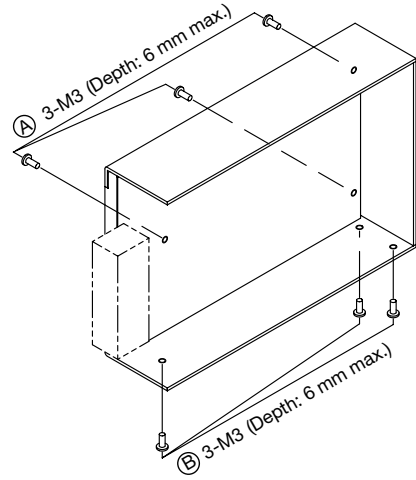
PS3L Switching Power Supplies

Installation

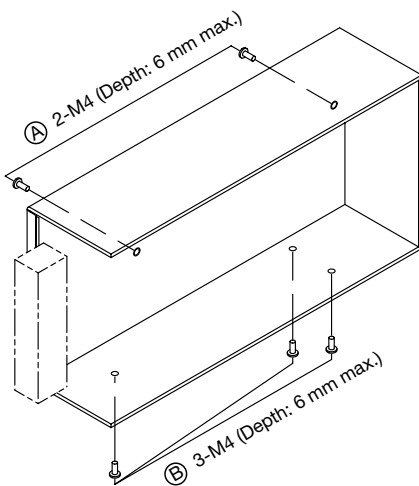
PS3L-C



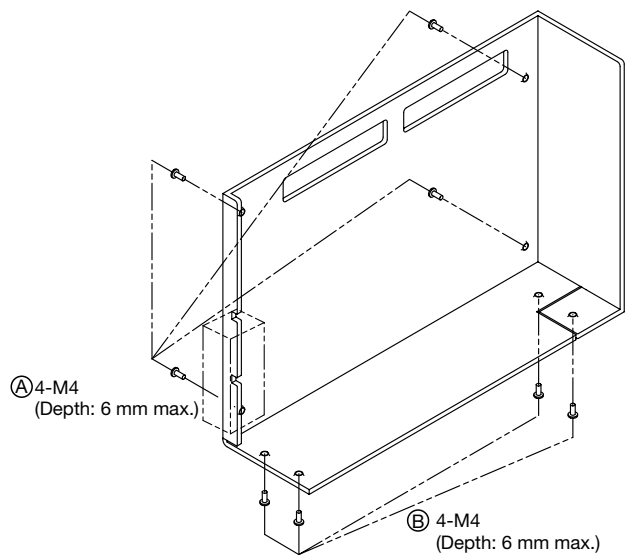
PS3L-D



PS3L-E/F



PS3L-G



Note: The figures above show the frames only. PC board and parts are omitted for illustration purposes.

Installation	Mounting Hole Layout			
	PS3L-C	PS3L-D	PS3L-E/F	PS3L-G
A Side Mounting (screw from the back)				
B Side Mounting (screw from the back)				

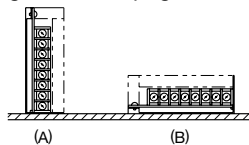
All dimensions in mm.

PS3L Switching Power Supplies

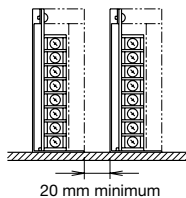
Operating Instructions

Notes for Installation

- PS3L switching power supplies can be installed in either (A) or (B) directions as shown below. For PS3L-E/F/G types, the operating temperature vs. output current characteristics vary with the mounting direction. See the derating curves on page 5.



- Mount the switching power supply on a metallic surface that provides adequate heat dissipation. Be sure to prevent heat built-up around the power supplies.
- Maintain 20 mm clearance between the power supplies.



- Use mounting screws of a proper length so that screws do not penetrate into the housing of the switching power supply for 6 mm or more.
- Mounting screws cannot be fastened on the PC board. Be sure to fasten the screws on the chassis side.

Adjustment of Output Voltage

The output voltage can be adjusted within $\pm 10\%$ of the rated output voltage by using the V.ADJ control on the front. Turning the V.ADJ clockwise increases the output voltage. When using a higher output voltage, reduce the output current to make sure that the output capacity is within the rating. Note that overvoltage protection may work when increasing the output voltage.

Overcurrent Protection

The output voltage drops automatically when an overcurrent flows due to an overload or short circuit. Normal voltage is automatically restored when the load returns to normal conditions.

Overvoltage Protection (PS3L-A)

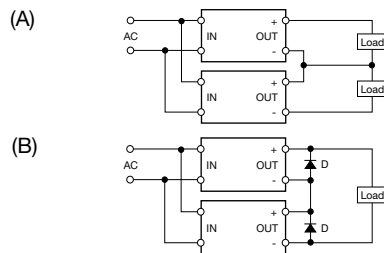
The PS3L-A uses a Zener diode for overvoltage protection. In case overvoltage damages the zener diode, contact IDEC for repair. Do not apply an external overvoltage to the output terminal.

(PS3L-B/C/D/E/F/G)

The output is turned off by overvoltage protection when an overvoltage is applied. When the output voltage has dropped due to an overvoltage (120% or more), turn the input off, and after one minute, turn the input on again.

Series Operation

The following series operations are allowed.



For the series operation (B), insert Schottky diodes D as shown in the figure. Select a Schottky diode in consideration of the rated current.

Notes for Operation

- Output interruption may indicate blown fuses. Contact IDEC.
- The internal fuse inside the power supply is for AC input. When using with DC input, install an external fuse for DC input. To avoid blown fuses, select fuses in consideration of the rated current of internal fuses.

Rated Current of Internal Fuses

Part No.	Rated Current of Fuse
PS3L-C	3.15A
PS3L-D	2A
PS3L-E	4A
PS3L-F	
PS3L-G	6.3A

- Avoid overload and short-circuit for a long period of time, otherwise the internal elements may be damaged.
- Not suitable for parallel operation.
- DC input operation is not subject to safety standards.

Insulation/Dielectric Test

When conducting an insulation/dielectric test, short-circuit the input (between AC) and output (between + and -). Do not apply or interrupt the voltage suddenly, otherwise the surge voltage may be generated and the power supply may be damaged.

⚠ Safety Precautions

- Do not use switching power supplies with electric equipment whose malfunction or inadvertent operation may damage the human body or life directly.
- Make sure that the input voltage and output current do not exceed the ratings. If the input voltage and output current exceed the ratings, electric shock, fire, or malfunction may occur.
- Do not disassemble, repair, or modify the power supplies, otherwise the high voltage internal part may cause electric shock, fire, or malfunction.
- Do not touch the switching power supplies while input voltage is applied, otherwise electric shock may occur.
- Provide the final product with protection against malfunction or damage that may be caused by the malfunction of switching power supplies.
- Operating temperatures should not exceed the ratings. Be sure to note the derating characteristics. If the operating temperature exceeds the ratings, electric shock, fire, or malfunction may occur.
- Blown fuses indicate that the internal circuits are damaged. Contact IDEC for repair. Do not just replace the fuse and reoperate, otherwise electric shock, fire, or malfunction may occur.
- Do not use the switching power supplies to charge rechargeable batteries.
- Connect all output terminals on the pin terminal type, otherwise fire may occur.

Specifications and other descriptions in this brochure are subject to change without notice.



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