

Switching Power Supplies

PS5R-V Series



STANDARDS COMPLIANCE

Applicable Standards	Mark	File No. or Organization
UL508 UL1310 ¹ ANSI/ISA 12.12.01 CSA C22.2 No.107.1 CSA C22.2 No.213 CSA C22.2 No.223 ¹		UL/c-UL Listed File No. E467154, E177168
EN60950-1 EN50178 EN61204-3 EN50581	 	TÜV SÜD ² EU Low Voltage Directive, EMC Directive RoHS Directive
SEMI F47	—	EPRI

Note 1: PS5R-VA/VB/VC/VD/VE only

Note 2: EN60950-1, EN50178 only

PART NUMBERS

Output Capacity	Part Number	Input Voltage	Output Voltage	Output Current
7.5W	PS5R-VA05	100 to 240V AC (Voltage range: 85 to 264V AC / 100 to 370V DC)	5V	1.5A
	PS5R-VA12		12V	0.6A
	PS5R-VA24		24V	0.3A
10W	PS5R-VB05		5V	2.0A
	PS5R-VB12		12V	1.3A
15W	PS5R-VB24		24V	0.65A
	PS5R-VC12		12V	2.5A
30W	PS5R-VC24		24V	1.3A
	PS5R-VD24		24V	2.5A
60W	PS5R-VE24		24V	3.75A
90W	PS5R-VF24		24V	5.0A
120W	PS5R-VF24		24V	5.0A
240W	PS5R-VG24		24V	10.0A

Part Number Structure

PS5R - V ☐ ☐

Output Capacity

A: 7.5W
B: 10W/15W
C: 30W
D: 60W
E: 90W
F: 120W
G: 240W

Output Voltage

05: 5V³
12: 12V⁴
24: 24V

Note 3: PS5R-VA/VB only

Note 4: PS5R-VA/VB/VC only

Use only for interpreting part numbers.

Do not use for developing part numbers.

PRODUCT DESCRIPTION

DIN-rail mount switching power supplies with global approvals for both industrial and hazardous locations

KEY FEATURES

- Compact size preserves panel space
- Slim size (width):
22.5mm (10W/15W/30W)
36mm (60W/90W)
46mm (120W)
60mm (240W)
- Universal Voltage Input:
85-264V AC/100-370V DC
- Wide operating temperature range
- Spring-up terminals accept ring & fork terminals
- Approved for use in Class I Division 2 hazardous locations
- Can be installed in 6 directions
- 10W ~ 90W meet NEC Class 2 output ratings
- Overcurrent protection with auto-reset
- Meets SEMI F47 Sag Immunity (208V AC input)
- RoHS compliant
- Five-year factory warranty



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SPECIFICATIONS

Model		5V DC output	PS5R-VA05	PS5R-VB05	-	-	-	-	-										
		12V DC output	PS5R-VA12	PS5R-VB12	PS5R-VC12	-	-	-	-										
		24V DC output	PS5R-VA24	PS5R-VB24	PS5R-VC24	PS5R-VD24	PS5R-VE24	PS5R-VF24	PS5R-VG24										
Output Capacity		7.5W		15W (5V Model is 10W)		30W		60W		90W		120W		240W					
Input	Rated Input Voltage (Single-phase two-wire) ¹		100 to 240V AC (Voltage range: 85 to 264V AC/100 to 370V DC) (Load ≤ 80% at 100-105V DC)																
	Frequency		50/60 Hz																
	Input Current (Typ.)	100V AC	5V: 0.20A 12V, 24V: 0.18A		5V: 0.25A 12V, 24V: 0.35A		0.7A		1.3A		1.1A		1.4A		2.7A				
		230V AC	5V: 0.12A 12V, 24V: 0.10A		5V: 0.14A 12V, 24V: 0.19A		0.3A		0.8A		0.6A		0.7A		1.2A				
	Inrush Current (Typ.) (Ta=25°C, cold start)	100V AC	15A		18A										14A				
		230V AC	36A		45A										41A		30A		
	Leakage Current	120V AC	0.5mA max.																
		230V AC	1.0mA max.																
	Efficiency (Typ.) (at rated output) ²	100V AC	5V: 74%, 12V: 79%, 24V: 80%		5V: 77%, 12V: 82%, 24V: 84%		12V: 83%, 24V: 85%		86%				88%		89%				
		230V AC	5V: 73%, 12V: 77%, 24V: 76%		5V: 73%, 12V: 80%, 24V: 81%		12V: 85%, 24V: 87%		86%				89%		90%				
Power Factor (Typ.)	100V AC	—		—		—		—				0.99							
	230V AC	—		—		—		—		0.86		0.92		0.96					
Rated Voltage/Current		5V/1.5A, 12V/0.6A, 24V/0.3A		5V/2.0A ³ , 12V/1.3A, 24V/0.65A		12V/2.5A, 24V/1.3A		24V/2.5A		24V/3.75A		24V/5A		24V/10A					
Adjustable Voltage Range		±10%												±5%		±10%			
Output Holding Time (Typ.) (at rated output)	100V AC	45ms		5V: 53ms, 12V: 34ms, 24V: 36ms		12V: 13ms, 24V: 15ms		13ms		20ms		30ms							
	230V AC	285ms		5V: 330ms 12V: 215ms 24V: 230ms		12V: 110ms 24V: 110ms		105ms		30ms		33ms		40ms					
Start Time (at rated input and output)		500ms max.		500ms max.		600ms max.		800ms max.				700ms max.		800ms max.					
Rise Time (at rated input and output)		5V, 12V: 200ms max 24V: 250ms max		5V, 12V: 200ms max. 24V: 250ms max.		200ms max.													
Output	Regulation	Input Fluctuation						0.4% max.											
		Load Fluctuation		5V: 2.5% max. 12V, 24V: 1.0% max.				1.0% max.											
		Temperature Change		0.04%/°C max. (-10 to +65°C)		0.05%/°C max. (-10 to +65°C)		12V: 0.05%/°C max. (-10 to +50°C) 24V: 0.05%/°C max. (-10 to +55°C)		0.05%/°C max. (-10 to +55°C)		0.05%/°C max. (-10 to +50°C)		0.05%/°C max. (-25 to +55°C)		0.05%/°C max. (-25 to +50°C)			
		Ripple (including noise)		5V: 8% p-p max. (-25 to -10°C) 12V: 6% p-p max. (-25 to -10°C) 24V: 4% p-p max. (-25 to -10°C)		5V: 8% p-p max. (-25 to -10°C) 12V: 6% p-p max. (-25 to -10°C) 24V: 4% p-p max. (-25 to -10°C)		12V: 6% p-p max. (-25 to -10°C) 24V: 4% p-p max. (-25 to -10°C)		4% p-p max. (-25 to -10°C)									
				5V: 5% p-p max. (-10 to +0°C) 12V: 2.5% p-p max. (-10 to +0°C) 24V: 1.5% p-p max. (-10 to +0°C)		5V: 5% p-p max. (-10 to +0°C) 12V: 2.5% p-p max. (-10 to +0°C) 24V: 1.5% p-p max. (-10 to +0°C)		12V: 2.5% p-p max. (-10 to +0°C) 24V: 1.5% p-p max. (-10 to +0°C)		1.5% p-p max. (-10 to +0°C)									
				5V: 2.5% p-p max. (0 to +65°C) 12V: 1.5% p-p max. (0 to +65°C) 24V: 1% p-p max. (0 to +65°C)		5V: 2.5% p-p max. (0 to +65°C) 12V: 1.5% p-p max. (0 to +65°C) 24V: 1% p-p max. (0 to +65°C)		12V: 1.5% p-p max. (0 to +50°C) 24V: 1% p-p max. (0 to +55°C)		1% p-p max. (0 to +55°C)		1% p-p max. (0 to +50°C)		1% p-p max. (0 to +55°C)		1% p-p max. (0 to +50°C)			
		Overcurrent Protection		105% min. (auto reset)								101% min. (auto reset)				105% min. (auto reset)			
		Operation Indicator		LED (green)															
Dielectric Strength	Between input and output terminals		3,000V AC, 1 minute																
	Between input and ground terminals		2,000V AC, 1 minute																
	Between output and ground terminals		500V AC, 1 minute																
Insulation Resistance		Between input and output terminals: 100MΩ min. (500V DC megger) Between input and ground terminals: 100MΩ min. (500V DC megger)																	
Operating Temperature ⁴ (No freezing)		-25 to +75°C				-25 to +70°C				-25 to +65°C									
Operating Humidity (no condensation)		20 to 90% RH																	
Storage Temperature (No freezing)		-25 to +75°C																	
Storage Humidity (no condensation)		20 to 90% RH																	
Vibration Resistance		10 to 55Hz, amplitude 0.375mm, 2 hours each in 3 axes (when used with BNL6 end clips)				10 to 55Hz, amplitude 0.33mm, 2 hours each in 3 axes (when used with BNL6 end clips) 10 to 55Hz, amplitude 0.375mm, 2 hours each in 3 axes (when used with BNL8 end clips)				10 to 55Hz, amplitude 0.21mm, 2 hours each in 3 axes (when used with BNL6 end clips) 10 to 55Hz, amplitude 0.375mm, 2 hours each in 3 axes (when used with BNL8 end clips)				10 to 55 Hz, amplitude 0.375mm, 2 hours each in 3 axes (when used with part no. BNL6 mounting clips)					
Shock Resistance		300 m/s ² (30G), 3 times each in 6 directions																	
Expected Life ⁵		8 years minimum (at the rated input, 50% load, operating temperature +40°C, standard mounting direction)																	
EMC	EMI	EN61204-3 (Class B)																	
	EMS	EN61204-3 (industrial)																	
Safety Standards		UL508 (Listing), UL1310 Class 2, ANSI/ISA-12.12.01 CSA C22.2 No. 107.1, 213, 223 EN60950-1, EN50178												UL508 (Listing) ANSI/ISA-12.12.01 CSA C22.2 No. 107.1, 213 EN60950-1, EN50178					
Other Standard		SEMI F47 (at 208V AC input only)																	
Degree of Protection		IP20 (EN60529)																	
Dimensions (mm)		75H × 45W × 70D		90H × 22.5W × 95D				95H × 36W × 108D				115H × 46W × 121D				125H × 60W × 125D			
Weight (approx.)		130g		140g		150g		260g		310g		470g		960g					
Terminal Screw		M3.5																	

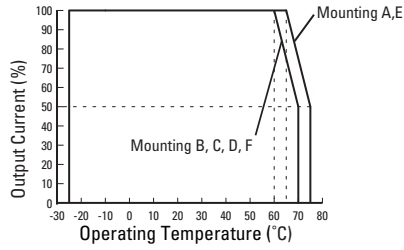
*At normal temperature and humidity unless otherwise specified.
Note 1: DC input voltage is not subject to safety standards. When using on DC input, connect a fuse to the input terminal for DC input protection.
Note 2: Under stable state.
Note 3: PS5R-VB05 (5V DC/2.0A) is 10W (Up to 3.0A at Ta = 0 to 40°C. Not subject to safety standards above 2.0A.)
Note 4: See the output derating curves.
Note 5: Calculation of the expected life is based on the actual life of the aluminum electrolytic capacitor. The expected life depends on operating conditions.

CHARACTERISTICS

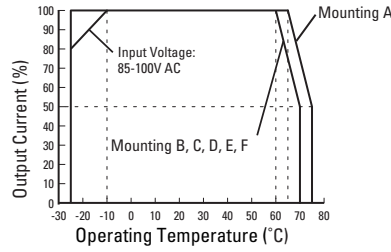
Operating Temperature vs. Output Current (Derating Curves)

Conditions: Natural air cooling (Operating temperature is the temperature around the switching power supply.)

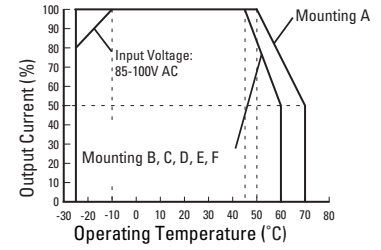
PS5R-VA05, -VA12, -VA24



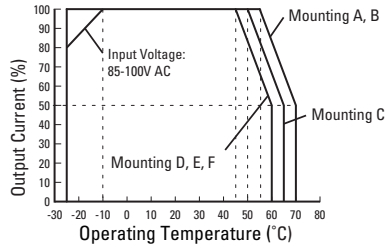
PS5R-VB05, -VB12, -VB24



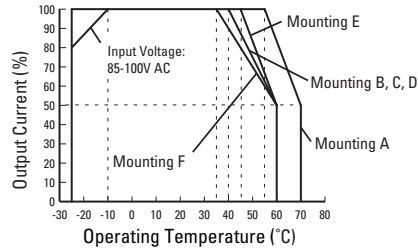
PS5R-VC12



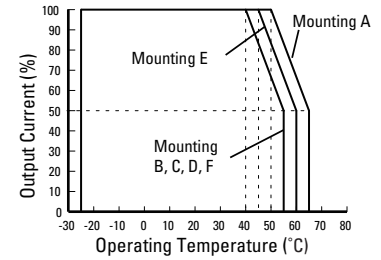
PS5R-VC24



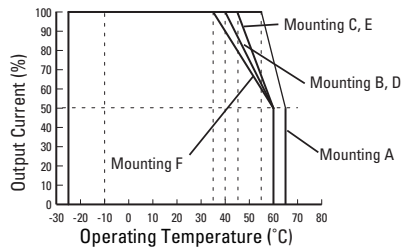
PS5R-VD24



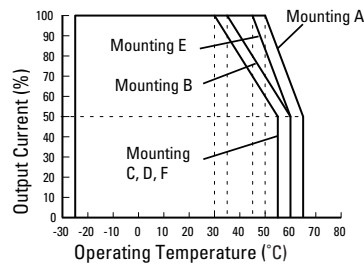
PS5R-VE24



PS5R-VF24

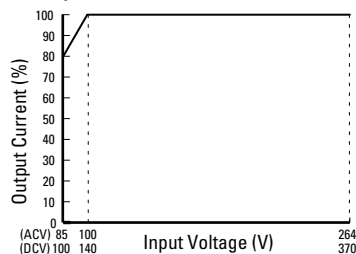


PS5R-VG24

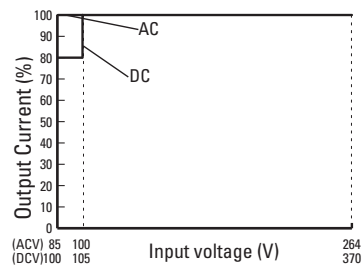


Input Voltage vs. Output Current (Derating Curves) Ta=25°C

PS5R-VB05, -VB12, -VB24, -VC12, -VC24, -VD24, -VE24, -VF24

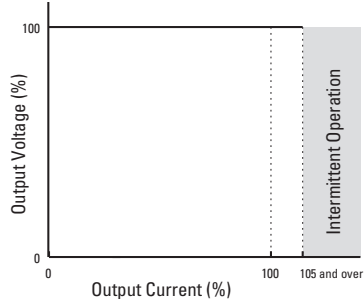


PS5R-VA05, -VA12, -VA24, -VG24

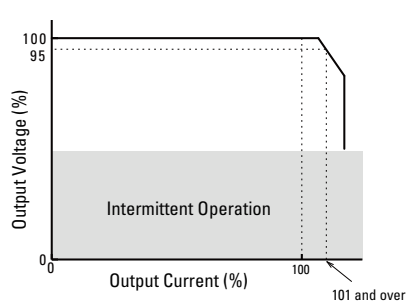


Overcurrent Protection Characteristics

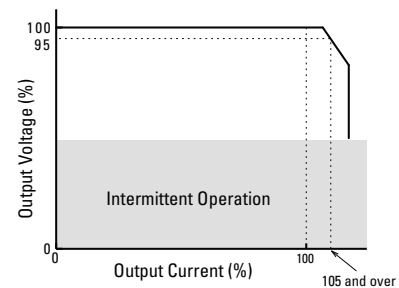
PS5R-VA/VB/VC/VD/VE



PS5R-VE24



PS5R-VG24



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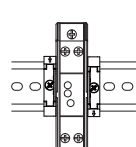
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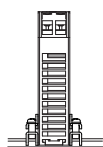
Operating Temperature Approved by Safety Standards

Part Number	UL508, CSA C22.2 No.107.1, ANSI/ISA12.12.01, EN60950-1, EN50178					
	Mounting A	Mounting B	Mounting C	Mounting D	Mounting E	Mounting F
PS5R-VA05, -VA12, -VA24	65	60	60	60	65	60
PS5R-VB05, -VB12, -VB24	65	60	60	60	60	60
PS5R-VC12	50	45	45	45	45	45
PS5R-VC24	55	55	50	45	45	45
PS5R-VD24	55	40	40	40	45	35
PS5R-VE24	50	40	40	40	45	40
PS5R-VF24	55	40	45	40	45	35
PS5R-VG24	50	35	30	30	45	30

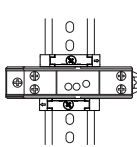
MOUNTING STYLE



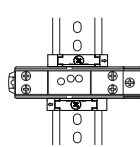
Mounting A
(Vertical, standard)



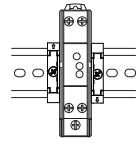
Mounting B
(Upright)



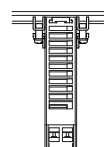
Mounting C
(Right side up)



Mounting D
(Left side up)



Mounting E
(Upside down)

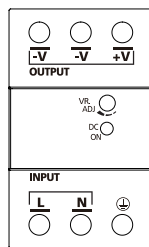


Mounting F
(Downward)

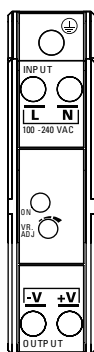


Front Panel

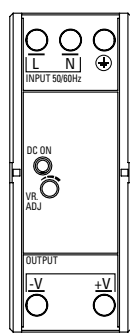
PS5R-VA



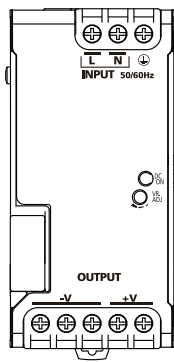
PS5R-VB/VC



PS5R-VD/VE/VF



PS5R-VG



Marking	Name	Description
L, N	AC Input Terminal	Voltage range: 85 to 264V AC/100 to 370V DC
⏏	Ground Terminal	Be sure to connect this terminal to a proper ground.
+V, -V	DC Output Terminals	+V: Positive output terminal -V: Negative output terminal
VR.ADJ	Output Voltage Adjustment	Allows adjustment within $\pm 10\%$. (VE = $\pm 5\%$) Turning clockwise increases the output voltage. Turning counterclockwise decreases the output voltage.
DC ON	Operation Indicator (green)	Illuminates when the output voltage is on.

ACCESSORIES

Panel Mounting Bracket²

Applicable Switching Power Supply	Part Number	Remarks
PS5R-VB	PS9Z-5R1B	—
PS5R-VC	PS9Z-5R2B	For side mounting
PS5R-VD	PS9Z-5R1C	—
PS5R-VE	PS9Z-5R1E	—
PS5R-VF	PS9Z-5R1E	—
PS5R-VG	PS9Z-6R1F	—
	PS9Z-6R2F	For side mounting

Note 2: Used when installing on a panel directly, PS5R-VA model does not require panel mounting bracket.

DIN Rail (35mm-wide)

Length	Part Number	Material
1000mm	BNDN1000	Aluminum

End Clip

Part Number
BNL6
BNL8



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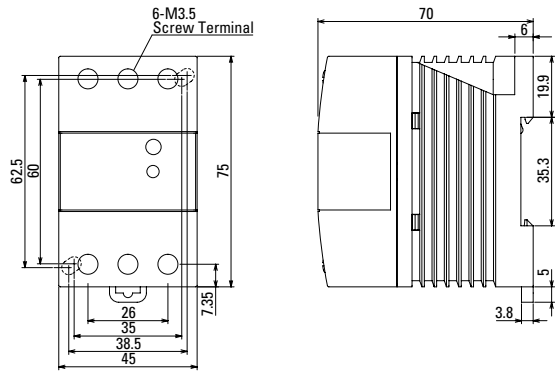
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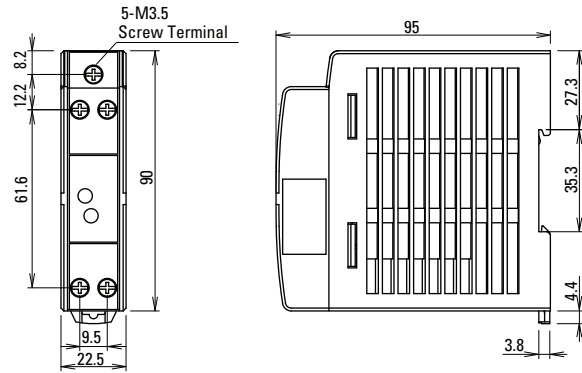
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DIMENSIONS (MM)

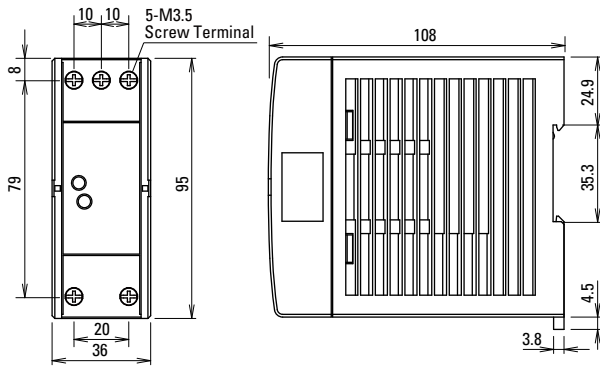
PS5R-VA



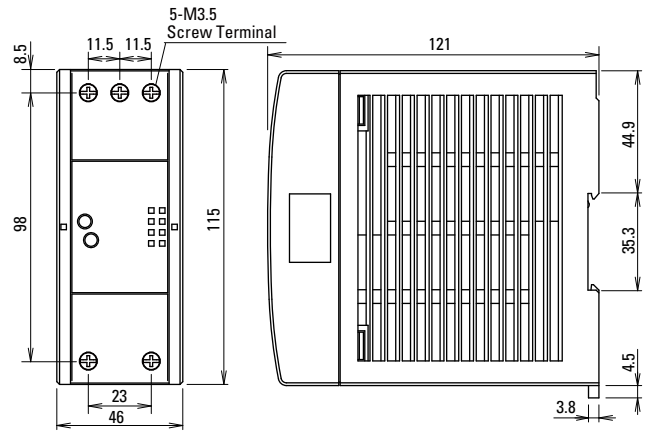
PS5R-VB/VC



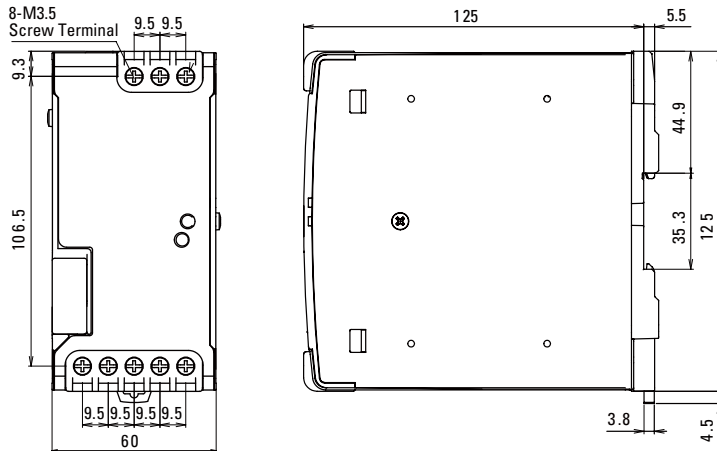
PS5R-VD/VE



PS5R-VF



PS5R-VG



MTBF*

PS5R-VA:	1,150,000H minimum
PS5R-VB:	900,000H minimum
PS5R-VC:	650,000H minimum
PS5R-VD:	450,000H minimum
PS5R-VE:	380,000H minimum
PS5R-VF:	350,000H minimum
PS5R-VG:	290,000H minimum

MIL-HDBK-217FN2
(GB, 30°C)

*MTBF stands for Mean Time Between Failure, which is calculated according to statistical device failures, and indicates reliability of a device. It is the statistical representation of the likelihood of the unit to fail and does not necessarily represent the expected life of a product.



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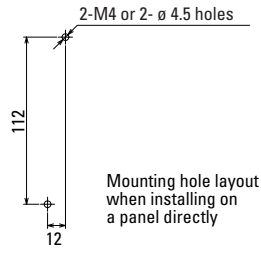
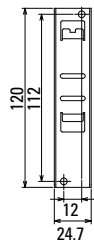
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Panel Mounting Bracket

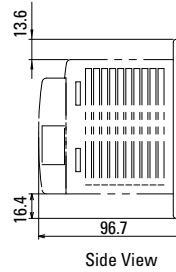
PS9Z-5R1B



When installed on switching power supply

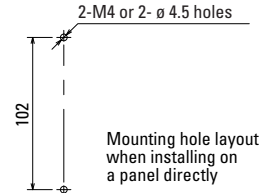
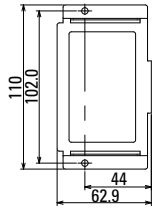


Front View

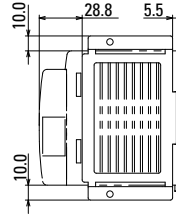


Side View

PS9Z-5R2B Side-mount

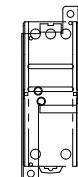
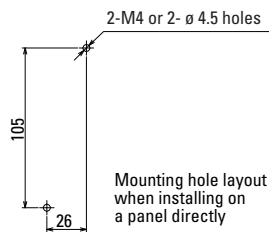
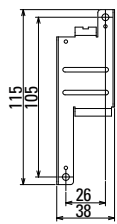


Side View

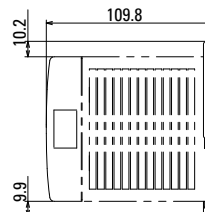


Front View

PS9Z-5R1C

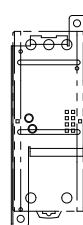
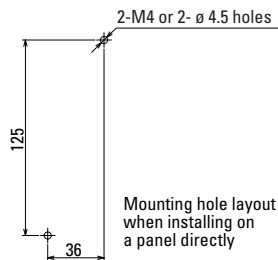
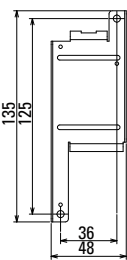


Front View

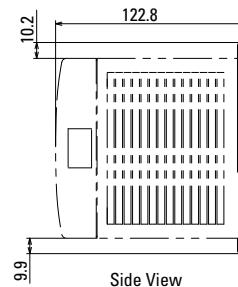


Side View

PS9Z-5R1E

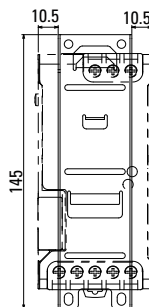
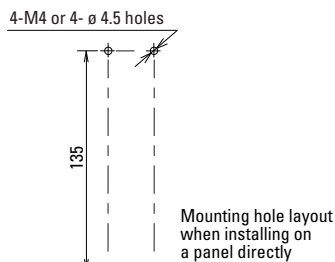
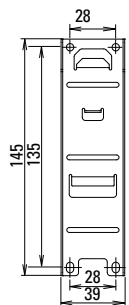


Front View

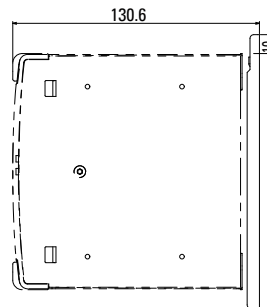


Side View

PS9Z-6R1F

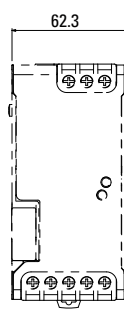
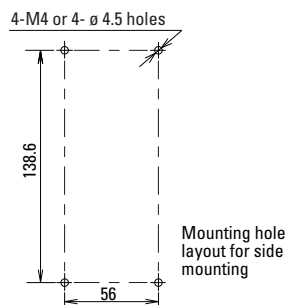
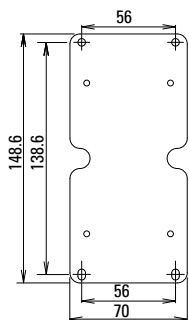


Front View

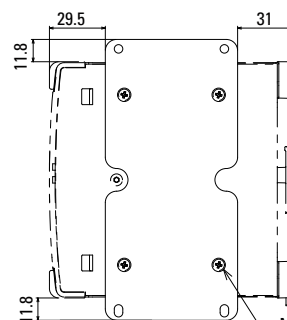


Side View

PS9Z-6R2F Side-mount



Side View



Back View

Mounting Screws
(4 - M3×6 countersunk screws)

SAFETY PRECAUTIONS

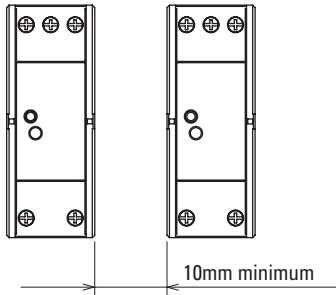
The PS5R-V should be placed in a proper enclosure. It is designed to be used with general electrical equipment and industrial electric devices

- 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 touch the terminals of the switching power supply 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 malfunction of the switching power supply.
- 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.
- Do not overload or short-circuit the switching power supply for a long period of time, otherwise the internal elements may be damaged.
- Do not disassemble, repair, or modify the power supplies, otherwise the high voltage internal part may cause electric shock, fire, or malfunction.
- The fuse inside the PS5R-V switching power supply is for AC input. Use an external fuse for DC input.

OPERATING INSTRUCTIONS

Notes for installation

- Do not close the top or bottom openings of the PS5R-V to allow for heat radiation by convection.
- When mounting multiple PS5R-V switching power supplies side by side, maintain a minimum of 10 mm clearance. Observe the derating curves in consideration of the ambient temperature.

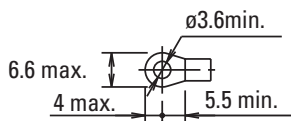


- When the derating voltage may exceed the recommended value, provide forced air-cooling.
- Make sure to wire the ground terminal correctly.
- For wiring, use wires of heat resistance of 60°C or higher (PS5R-VB: 80°C or higher). Use copper wire of the following sizes, according to the rated current.

Terminal	Wire Size (allowable current)	Wire Type
Input	AWG 18 to 14	Copper Solid/Stranded
Output	AWG18 to 14 (AWG18: 7A, AWG16: 10A, AWG14: 15A)	

Cross-Sectional are AWG18: 0.82mm², AWG16: 1.31mm², AWG14: 2.0mm²

Applicable crimp terminal (reference)



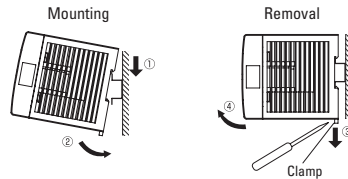
- Recommended tightening torque of the input and output terminals is 1.0 to 1.3Nm (0.8N-m for UL).

Mounting on DIN Rails

- Use a 35mm-wide DIN rail.
- Place the PS5R-V on the DIN rail as shown with input terminal side up (①), and press the PS5R-V towards the DIN rail (②). Make sure that the PS5R-V is installed firmly.
- Use BNL6 end clips to ensure power supplies do not slide off the end of the DIN rail. Use of BNL8 end clips is recommended when excessive vibration or shock is anticipated.

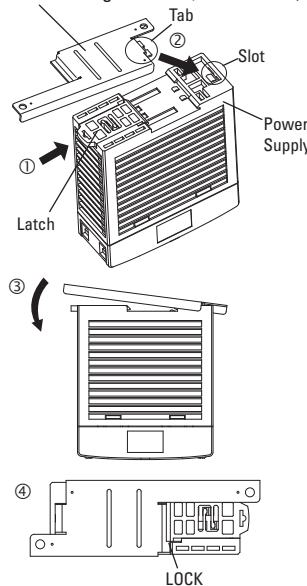
Removal

- Insert a flat screwdriver into the slot in the clamp, and pull out until it clicks (①). The lock mechanism is released and the PS5R-V can be removed (②). When mounting the PS5R-V again, push in the latch first.



Installing a Panel Mounting Bracket

Panel Mounting Bracket (PS9Z-5R1□, PS9Z-6R1F)



① Push in the latch to LOCK position.

LOCK

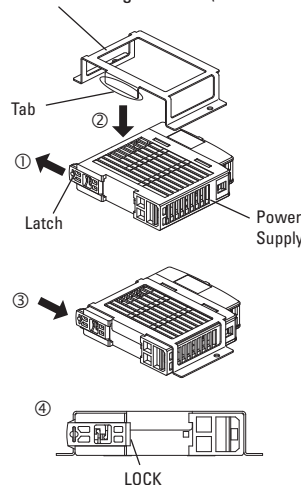
UNLOCK

② Install the tab on the panel mounting bracket into the slot on the power supply.

③ Install the brackets as shown on the left.

④ Ensure that the panel mounting bracket is locked by the latch.

Panel Mounting Bracket (PS9Z-5R2B)



① Pull out the latch to UNLOCK position.

LOCK

UNLOCK

② Insert the tab on the panel mounting bracket into the slot on the power supply.

③ Push in the latch to LOCK position.

④ Ensure that the panel mounting bracket is locked by the latch.



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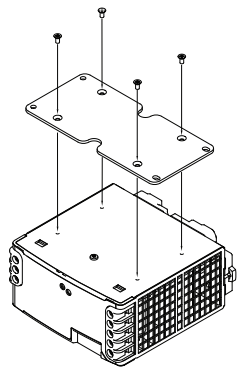
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Installing PS9Z-6R2F Side-mount Panel Mounting Bracket

Install the bracket on the switching power supply using four M3 × 6 countersunk screws supplied with the bracket. Recommended tightening torque is 0.5 to 0.6N.m (should be in the center positions)



Adjustment of Output Voltage

The output voltage can be adjusted within $\pm 10\%$ (VE: $\pm 5\%$) of the rated output voltage by using the VR.ADJ control on the front. Turning the VR.ADJ clockwise increases the output voltage. Turning the VR.ADJ counterclockwise decreases 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.

Insulation/Dielectric Test

When performing an insulation/dielectric test, short-circuit the input (between L and N) and output (between +V and -V). Do not apply or interrupt the voltage quickly, otherwise surge voltages may be generated and the PS5R-V may be damaged.

Notes for Operation

- Output interruption may indicate blown fuses. Contact IDEC.
- The PS5R-V switching power supply contains an internal fuse for AC input. When using DC input, install an external fuse. To avoid blown fuses, select a fuse in consideration of the rated current of the internal fuse.

Rated Current of Internal Fuses

Part Number	Internal Fuse Rated Current
PS5R-VB/VC	2A
PS5R-VD/VE/VF	4A
PS5R-VG	6.3A

- Avoid overload and short-circuit for a long period of time, otherwise the internal elements may be damaged.

WARRANTY

IDEC warrants the PS5R-V switching power supply for a period of five years from the date of shipment.

Scope

IDEC agrees to repair or replace the PS5R-V switching power supply if the product has been operated under the following conditions. The maximum value of output capacity is within the range shown in "Operating Temperature vs. Output Current" on page 3.

1. Average operating temperature (ambient temperature of switching power supply) is 40°C maximum.
2. The load is 80% maximum.
3. Input voltage is the rated input voltage.
4. Standard mounting style

- DC input operation is not subject to safety standards.

Rust and Scratches on Metal parts

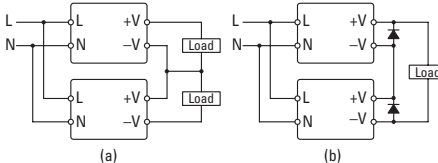
Bonded metal parts are used for the PS5R-V. Rust on the edge and scratches on the surfaces may be developed depending on the storage condition, but the performance of the PS5R-V is not affected.

Noise

Small acoustic noise inside the PS5R-V may be heard depending on the input voltage and load, but the performance of the PS5R-V is not affected.

Series Operation

Series operation is allowed. Connect Schottky barrier diodes D as shown below. Select a Schottky diode in consideration of the rated current. The diode's reverse voltage must be higher than the PS5R-V's output voltage.

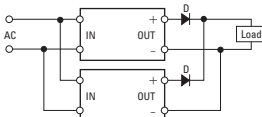


Parallel Operation

Parallel operation is not possible to increase the output capacity, because the internal elements and load may be damaged.

Backup Operation

Backup operation is a connection method of two switching power supplies in parallel for emergency. Normally one switching power supply has a sufficient output. If one switching power supply fails, another one operates to continue the output. Make sure that the sum of power consumption by load and diode is not greater than the rated wattage (rated voltage × rated current) of one switching power supply.



Select a diode in consideration of:

Diode's current must be more than double the PS5R-V's output current. Take heat dissipation into consideration.

IDEC shall not be liable for other damages including consequential, contingent or incidental damages. Warranty does not apply if the PS5R-V switching power supply was subject to:

1. Inappropriate handling, or operation beyond specifications.
2. Modification or repair by other than IDEC.
3. Failure caused by other than the PS5R-V switching power supply.
4. Failure caused by natural disasters.



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