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OMRON

Switch Mode Power Supply S8VK-C (60/120/240/480-W Models)



Model Number Structure

Model Number Legend

Note: Not all combinations are possible. Refer to List of Models in Ordering Information, below.



1. Power Ratings

060: 60 W 120: 120 W 240: 240 W 480: 480 W 2. Output voltage (VDC) 24: 24 V

Ordering Information

Note: For details on normal stock models, contact your nearest OMRON representative.

Power ratings	Input voltage	Output Voltage (VDC)	Output current *1	Model number
60 W	Single phase 100 to 240 VAC 90 to 350 VDC	24 V	2.5 A	S8VK-C06024
120 W		24 V	5 A	S8VK-C12024
240 W		24 V	10 A	S8VK-C24024
480 W		24 V	20 A	S8VK-C48024

***1.** For rated output current of DC input, refer to Derating Curve on Page 4.

Specifications

Ratings, Characteristics, and Functions

		Power ratings	60 W	120 W	240 W	480 W		
ltem		Output voltage (VDC)	24 V	24 V	24 V	24 V		
Efficiency (230 VAC input	88%	88%	87%	91%		
	Voltage *1		100 to 240 VAC, 90 to 350 VDC (allowable range: 85 to 264 VAC) *6					
	Frequency *1		50/60 Hz (47 to 450 Hz) 50/60 Hz (47 to 63 Hz)					
	Current (Typical)	115 VAC input	1.0 A	2.2 A	2.5 A	4.8 A		
	Current (Typical)	230 VAC input	0.7 A	1.4 A	1.3 A	2.4 A		
nput	Power factor (Typical) *7	230 VAC input	0.44	0.45	0.92	0.97		
-	Harmonic current emissions			ш	Conforms to EN6100	0-3-2		
	Leakage current 115 VAC input		0.19 mA	0.19 mA	0.24 mA	0.26 mA		
	(Typical)	230 VAC input	0.34 mA	0.36 mA	0.54 mA	0.65 mA		
	Inrush current	115 VAC input	16 A	1		L		
	(Typical) *2	230 VAC input	32 A					
	Voltage adjustme	nt range *3	-10% to 15% (with V.A	DJ) (guaranteed)				
	Ripple at 20 MHz (Typical) *4	230 VAC input	70 mV	120 mV	150 mV	130 mV		
	Input variation inf	luence	0.5% max. (at 85 to 264	4 VAC input, 100% load)			
	•	ence (Rated Input voltage)	1.5% max., at 0% to 10		,			
Output	Temperature varia		0.05%/°C max.					
	Start up time	115 VAC input	530 ms	800 ms	790 ms	770 ms		
	(Typical) *2	230 VAC input	410 ms	760 ms	750 ms	670 ms		
	Hold time	115 VAC input	24 ms	27 ms	34 ms	21 ms		
	Hold time (Typical) *2	230 VAC input	117 ms	128 ms	36 ms	22 ms		
	Overload protecti		105% to 160% of rated	-	001110	22 110		
	Overvoltage protection *2		Yes *5					
Additional functions	Parallel operation		No					
unotiono	-			awar Cumplian (with out	arnal diada)			
	Series operation Ambient operating temperature		Possible for up to two Power Supplies (with external diode) -25 to 60°C (Refer to Engineering Data)					
	•			ingineering Data)				
	Storage temperat		-25 to 65°C					
	Ambient operating humidity Dielectric strength (detection current: 20 mA)		20% to 90% (Storage humidity: 10% to 95%) 3.0 kVAC for 1 min. (between all inputs and outputs) 2.0 kVAC for 1 min. (between all inputs and PE terminal) 1.0 kVAC for 1 min. (between all outputs and PE terminal)					
	Insulation resista	nce		•	ts/ PE terminals) at 500 VD	С		
	Vibration resistance		10 to 55 Hz, 0.375-mm single amplitude for 2 h each in X, Y, and Z directions 10 to 150 Hz, 0.35-mm single amplitude (5 G max for 60W, 120W, 240 W, 3 G max for 480 W) for 80 min. each in X, Y, and Z directions					
	Shock resistance		150 m/s ² , 3 times each in ±X, ±Y, and ±Z directions					
	Output indicatior		Yes (color: green), lighting from 80% to 90% or more of rated voltage					
Others		Conducted Emission		0	I based on FCC Class A			
	EMI	Radiated Emission	Conforms to EN61204-					
	EMS		Conforms to EN61204-					
	Safety standards		UL Listed: UL508 (Listing) UL UR: UL No. 62368-1 (Recognition) cUL: CSA C22.2 No.107.1 cUR: CSA C22.2 No.62368-1 EN: EN 62477-1, EN 62368-1 BIS: IS 13252 (Part1)					
	Fulfilled Standard	s	SELV (EN 62368-1/EN 62477-1/UL No. 62368-1)					
	Degree of protect		IP20 by EN / IEC60529					
	SEMI		F47-0706 (200 to 240 \					
	Weight		260 g 580 g 940 g 1,550 g					

*1. Do not use an inverter output for the Power Supply. Inverters with an output frequency of 50/60 Hz are available, but the rise in the internal temperature of the Power Supply may result in ignition or burning.

*2. For a cold start at 25°C. Refer to Engineering Data on page 5 for details.

***3.** If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than +15% of the voltage adjustment range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that the load is not damaged.

*4. A characteristic when the ambient operating temperature is between -25 to 60°C.

***5.** To reset the protection, turn OFF the input power for three minutes or longer and then turn it back ON.

*6. Safety Standard for a DC Input

The following safety standards apply to a DC input: UL No. 62368-1, cUR (CSA C22.2 No.62368-1), EN 62477-1, EN62368-1.

For a DC input, safety is ensured by external fuse.

Select an external fuse the meets the following conditions.

S8VK-C06024: 350 VDC min, 6A

S8VK-C12024: 350 VDC min, 8A

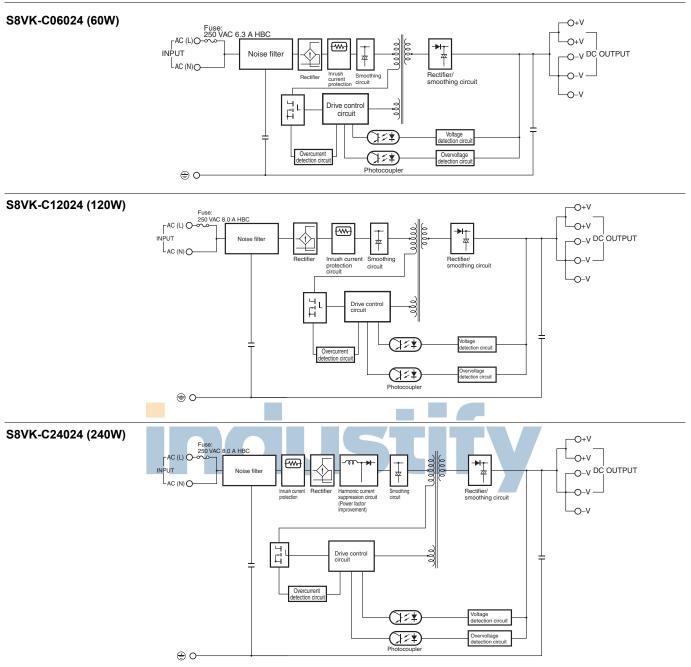
S8VK-C24024: 350 VDC min, 8A

S8VK-C48024: 350 VDC min, 12A

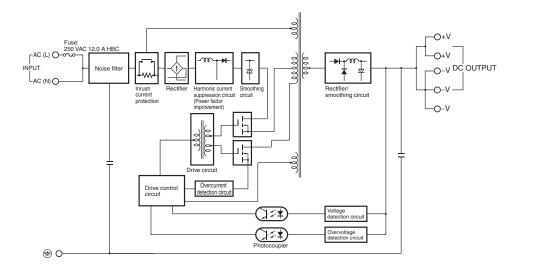
***7.** The value is when both rated output voltage and rated output current are satisfied.

Connections

Block Diagrams



S8VK-C48024 (480W)



S8VK-C

Construction and Nomenclature

Nomenclature

60-W Models

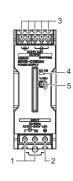
S8VK-C06024

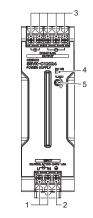
120-W Models

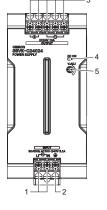
S8VK-C12024

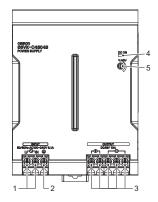
240-W Models S8VK-C24024

480-W Models S8VK-C48024









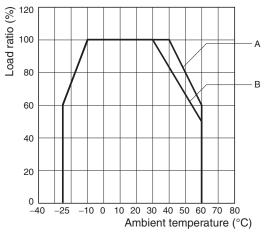
No.	Name	Function
1	Input terminals (L), (N)	Connect the input lines to these terminals. *1
2	Protective Earth terminal (PE)	Connect the ground line to this terminal. *2
3	DC Output terminals (–V), (+V)	Connect the load lines to these terminals.
4	Output indicator (DC ON: Green)	Lights while a direct current (DC) output is ON.
5	Output voltage adjuster (V.ADJ)	Use to adjust the voltage.

*1. The fuse is located on the (L) side. It is not user-replaceable. For a DC input, connect the positive voltage to the L terminal.
 *2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.

Engineering Data

Derating Curve

60, 120, 240, 480 W



Note: 1. At less than 90 VAC, the derating is 2.5%/V

 For a DC power input, reduce the load given in the above derating curve by multiplying the following coefficients. S8VK-C06024/S8VK-C12024: 0.8 S8VK-C24024/S8VK-C48024: 0.7

- A. Standard mounting 40°C and over: the derating is 2.0%/°C
- **B.** Face-up mounting 30°C and over: the derating is 1.67%/°C

Mounting



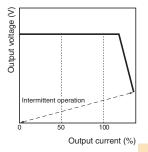
(B) Face-up mounting

Overload Protection

The load and the power supply are automatically protected from overcurrent damage by this function.

Overload protection is activated if the output current rises above 105% of the rated current.

When the output current returns within the rated range overload protection is automatically cleared.

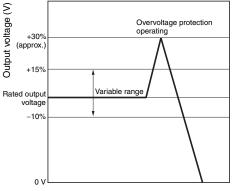


The values shown in the above diagrams are for reference only.

- Note: 1. Internal parts may occasionally deteriorate or be damaged if a short-circuited or overcurrent state continues during operation.
 - Internal parts may possibly deteriorate or be damaged if the Power Supply is used for applications with frequent inrush current or overloading at the load end. Do not use the Power Supply for such applications.

Overvoltage Protection

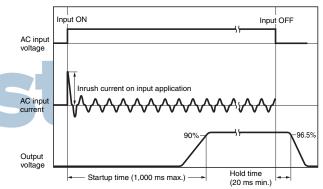
Consider the possibility of an overvoltage and design the system so that the load will not be subjected to an excessive voltage even if the feedback circuit in the Power Supply fails. If an excessive voltage that is approximately 130% of the rated voltage or more is output, the output voltage is shut OFF. Reset the input power by turning it OFF for at least three minutes and then turning it back ON again.



The values shown in the above diagram is for reference only. **Note:** Do not turn ON the power again until the cause of the

overvoltage has been removed.

Inrush Current, Startup Time, Output Hold Time



Note: Twice the input current or above will flow during the redundant system.

Therefore, check the fusing characteristics of fuses and operating characteristics of breakers making sure that the external fuses will not burn out and the circuit breakers will not be activated by the inrush current.

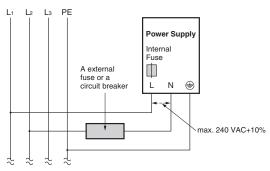
⁽A) Standard (Vertical) mounting

Two phases application for Single phase models For All Single phase Models, S8VK-C

Basically OMRON single phase power supply can be used on twophases of a 3–phase-system when some of conditions satisfy like below.

- The supplying voltage is below the maximum rated input. OMRON Power supply allows the input voltage equivalent or less than 240 VAC+10%. Please confirm the input voltage between two lines if the input
- Please confirm the input voltage between two lines if the input voltage satisfies this condition before connecting.
 The external protector is needed on N input line to secure a safety. N line has no protection of a fuse internally. An appropriate fuse or circuit breaker should be connected on N.

An appropriate fuse or circuit breaker should be connected on N input line like the following.



Reference Value

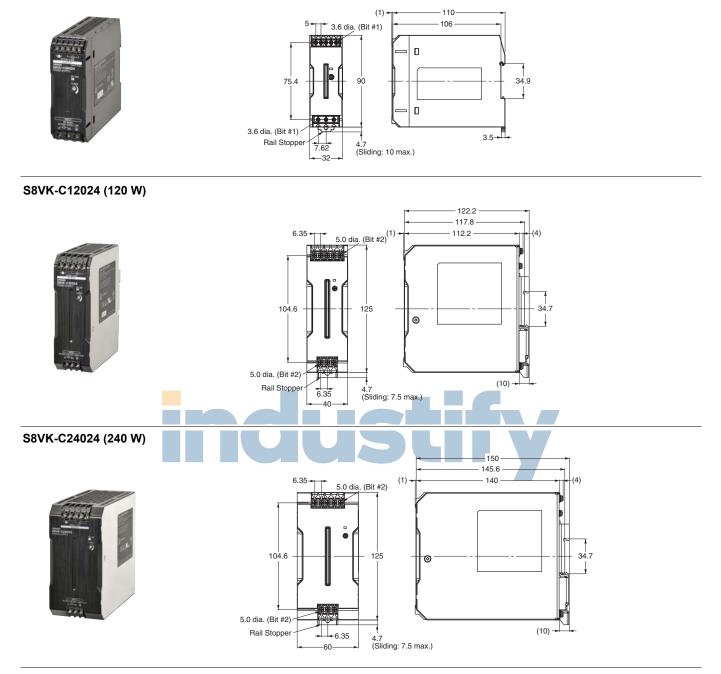
	Value	
Reliability (MTBF)	Single phase model 60 W: 630,000 hrs 120 W: 490,000 hrs 240 W: 270,000 hrs 480 W: 190,000 hrs	istifv
Definition	MTBF stands for Mean Time Between Failures, which is calculated according to the probability of accidental device failures, and indicates reliability of devices. Therefore, it does not necessarily represent a life of the product.	
Life expectancy	10 yrs. Min.	
Definition	The life expectancy indicates average operating hours under the ambient temperature of 40°C and a load rate of 50%. Normally this is determined by the life expectancy of the built-in aluminum electrolytic capacitor.	

S8VK-C

(Unit: mm)

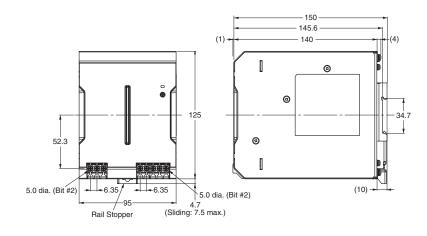
Dimensions

S8VK-C06024 (60 W)



S8VK-C48024 (480 W)

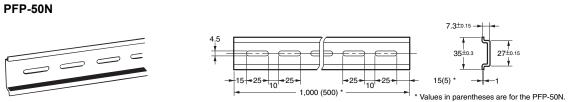




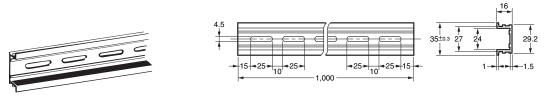
DIN Rail (Order Separately)

Note: All units are in millimeters unless otherwise indicated.

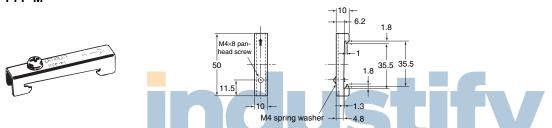
Mounting Rail (Material: Aluminum) PFP-100N



Mounting Rail (Material: Aluminum) PFP-100N2



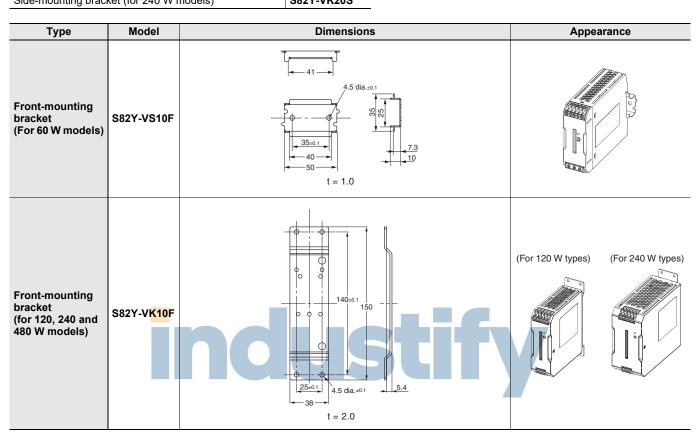
End Plate PFP-M



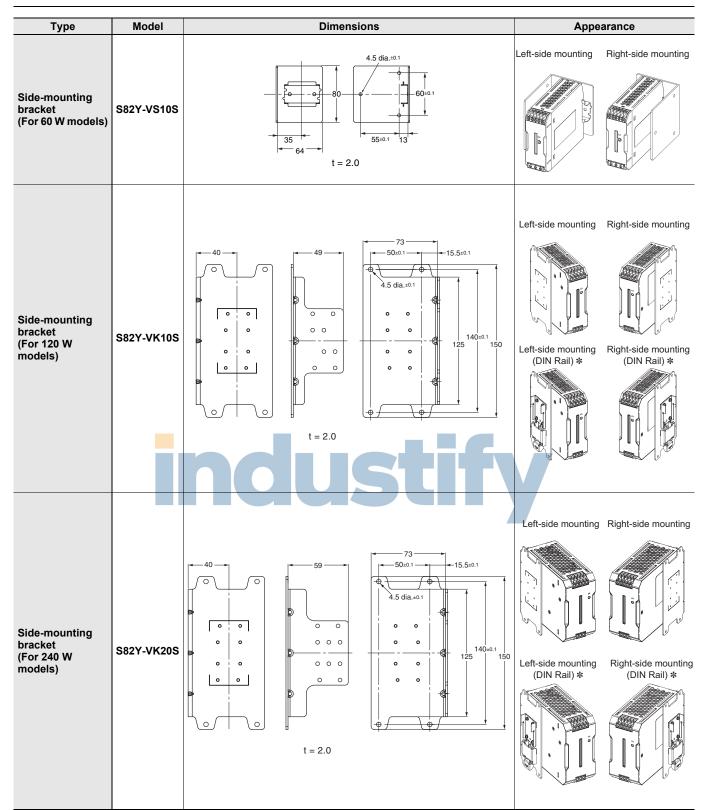
Note: If there is a possibility that the Unit will be subject to vibration or shock, use a steel DIN Rail. Otherwise, metallic filings may result from aluminum abrasion.

Mounting Brackets

Name	Model
Front-mounting bracket (for 60 W models)	S82Y-VS10F
Front-mounting bracket (for 120, 240 and 480 W models)	S82Y-VK10F
Side-mounting bracket (for 60 W models)	S82Y-VS10S
Side-mounting bracket (for 120 W models)	S82Y-VK10S
Side-mounting bracket (for 240 W models)	S82Y-VK20S



S8VK-C



* You can mount the side of the Power Supply to a DIN Rail by removing the DIN Rail Back-mounting Bracket and then attaching a Side-mounting Bracket to the Power Supply.

Safety Precautions

Warning Indications

	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.
Precautions for Safe Use	Supplementary comments on what to do or avoid doing, to use the product safely.
Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction or undesirable effect on product performance.

Meaning of Product Safety Symbols

	Used to warn of the risk of electric shock specific conditions.	under	
	Used to warn of the risk of minor injury ca high temperatures.	used by	
0	Used for general mandatory action preca for which there is no specified symbol.	utions	
	Use to indicate prohibition when there is a minor injury from electrical shock or other if the product is disassembled.		
occasionally	CAUTION ic shock, fire, or Product failure may occur. Do not disassemble, modify, or roduct or touch the interior of the		ISUTY
the Product	may occasionally occur. Do not touch while power is being supplied or after power is turned OFF.		
•	asionally occur. Tighten terminal screws ïed torque (0.5 to 0.6 N·m).	0	
occur. Do no	due to electric shock may occasionally ot touch the terminals while power is ed. Always close the terminal cover after		

Μ occur. Do not touch the terminals while power is being supplied. Always close the terminal cover after wiring.

Minor electric shock, fire, or Product failure may occasionally occur. Do not allow any pieces of metal or conductors or any clippings or cuttings resulting from installation work to enter the Product.



Precautions for Safe Use

Wiring

- Connect the ground completely. A protective earthing terminal stipulated in safety standards is used. Electric shock or malfunction may occur if the ground is not connected completely.
- Minor fire may possibly occur. Ensure that input and output terminals are wired correctly.
- Do not apply more than 75-N force to the terminal block when tightening it.
- Be sure to remove the sheet covering the Product for machining before power-ON so that it does not interfere with heat dissipation.
- Use the following material for the wires to be connected to the S8VK-C to prevent smoking or ignition caused by abnormal loads.

Terminals and Wiring

	I	NPUT	OUTPUT PE		PE	
Model	American Wire Gauge	Solid Wire /Stranded Wire	American Wire Gauge	Solid Wire /Stranded Wire	American Wire Gauge	Solid Wire /Stranded Wire
S8VK-C06024	AWG22 to 12	0.35 to 4 mm ² /0.35 to 2.5 mm ²	AWG20 to 12	0.5 to 4 mm ² /0.5 to 2.5 mm ²	AWG14 to 12	
S8VK-C12024	AWG22 to 10	0.35 to 6 mm ² /0.35 to 4 mm ²	AWG18 to 10	0.75 to 6 mm ² /0.75 to 4 mm ²	2.5 AWG14 to 10	2.5 to 4 mm ²
S8VK-C24024	AWG20 to 10	0.5 to 6 mm ² /0.5 to 4 mm ²	AWG14 to 10	2.5 to 6 mm ² /2.5 to 4 mm ²		2.5 10 4 mm ²
S8VK-C48024	AWG16 to 10	1.5 to 6 mm ² /1.5 to 4 mm ²	AWG12 to 10	4 to 6 mm ² /4 mm ²		

• Strip I/O wires for 8 mm when using a screwless terminal block.

Note: The rated current for output terminals is 10 A per terminal.

Be sure to use multiple terminals simultaneously for current that exceeds the terminal rating.

When applying a current of 10 A or more, use at least two terminals each for the positive and negative wires.

Installation Environment

- Do not use the Power Supply in locations subject to shocks or vibrations. In particular, install the Power Supply as far away as possible from contactors or other devices that are a vibration source.
- Install the Power Supply well away from any sources of strong, high-frequency noise and surge.

Operating Life

• The life of a Power Supply is determined by the life of the electrolytic capacitors used inside. Here, Arrhenius Law applies, i.e., the life will be cut in half for each rise of 10°C or the life will be doubled for each drop of 10°C. The life of the Power Supply can thus be increased by reducing its internal temperature.

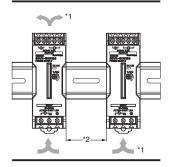
Ambient Operating and Storage Environments

- Store the Power Supply at a temperature of -25 to 65°C and a humidity of 10% to 95%.
- Do not use the Power Supply in areas outside the derating curve otherwise, internal parts may occasionally deteriorate or be damaged.
- Use the Power Supply at a humidity of 20% to 90%.
- Do not use the Power Supply in locations subject to direct sunlight.
- Do not use locations where liquids, foreign matter, or corrosive gases may enter the interior of Products.

Precautions for Correct Use

Mounting

- Take adequate measures to ensure proper heat dissipation to increase the long-term reliability of the Product. Be sure to allow convection in the atmosphere around devices when mounting. Do not use in locations where the ambient temperature exceeds the range of the derating curve.
- When cutting out holes for mounting, make sure that cuttings do not enter the interior of the Products.



*1. Convection of air *2. 20 mm min.

- Improper mounting will interfere with heat dissipation and may occasionally result in deterioration or damage of internal parts. Use the Product within the derating curve for the mounting direction that is used.
- Use a mounting bracket when the Product is mounted facing horizontally.
- Heat dissipation will be adversely affected. When the Product is mounted facing horizontally, always place the side with the label facing upward.
- Operate the Power Supply within a range that is 5°C less than the values in the derating curve in *Engineering Data* on page 4 if the Power Supply is used with an installation spacing of 10 mm min. (20 mm max.) on the left and right.

Overcurrent Protection

- Internal parts may possibly deteriorate or be damaged if a short-circuited or overcurrent state continues during operation.
- Internal parts may possibly deteriorate or be damaged if the Power Supply is used for applications with frequent inrush current or overloading at the load end. Do not use the Power Supply for such applications.
- The DC ON indicator (green) flashes if the overload protection function operates.

Charging a Battery

If you connect a battery as the load, install overcurrent control and overvoltage protection circuits.

Output Voltage Adjuster (V.ADJ)

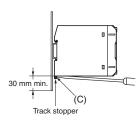
- The output voltage adjuster (V.ADJ) may possibly be damaged if it is turned with unnecessary force. Do not turn the adjuster with excessive force.
- After completing output voltage adjustment, be sure that the output capacity or output current does not exceed the rated output capacity or rated output current.

DIN Rail Mounting

To mount the Block on a DIN Rail, hook portion (A) of the Block onto the rail and press the Block in direction (B).

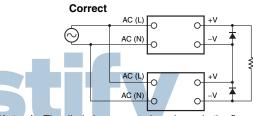


To dismount the Block, pull down portion (C) with a flat-blade screwdriver and pull out the Block.



Series Operation

Two power supplies can be connected in series.



Note: 1. The diode is connected as shown in the figure. If the load is short-circuited, a reverse voltage will be generated inside the Power Supply. If this occurs the Power Supply may possibly deteriorate or be damaged. Always connect a diode as shown in the figure. Select a diode baying the following ratings

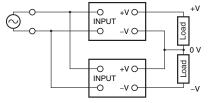
	ang are following radings:
Туре	Schottky Barrier diode

- 16-	,
Dielectric strength (VRRM)	Twice the rated output voltage or above
Forward current (IF)	Twice the rated output current or above

2. Although Products having different specifications can be connected in series, the current flowing through the load must not exceed the smaller rated output current.

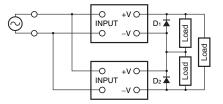
Making Positive/Negative Outputs

 The outputs are floating outputs (i.e., the primary circuits and secondary circuits are separated). You can therefore make positive and negative outputs by using two Power Supplies. If positive and negative outputs are used, connect Power Supplies of the same series as in the following figure. (Combinations with different output capacities or output voltages can be made. However, use the lower of the two maximum rated output currents as the current to the loads.)



 Depending on the model, internal circuits may be damaged due to startup failure when the power is turned ON if loads such as a servomotor or operational amplifier may operate in series. Therefore, connect bypass diodes (D1, D2) as shown in the following figure.

If the list of models that support series connection of outputs says that an external diode is not required, an external diode is also not required for positive/negative outputs.



- Use the following information as a guide to the diode type, dialectic strength, and current.
- Type: Schottky barrier diode
- Dielectric strength (VRRM): Twice the rated Power Supply output voltage or higher
- Forward current (IF): Twice the rated Power Supply output current or higher

Backup Operation

Backup operation can be performed with S8VK-R. Refer to the S8VK-R Datasheet for detail.

In Case There Is No Output Voltage

The possible cause for no output voltage may be that the overcurrent or overvoltage protection has operated. The internal protection may operate if a large amount of surge voltage such as a lightening surge occurs while turning ON the power supply.

In case there is no output voltage, please check the following points before contacting us:

- Checking overload protected status: Check whether the load is in overload status or is short-circuited. Remove wires to load when checking.
- Checking overvoltage or internal protection:
- Turn the power supply OFF once, and leave it OFF for at least 3 minutes. Then turn it ON again to see if this clears the condition.

Audible Noise at Power ON (240-W, and 480-W Models)

A harmonic current suppression circuit is built into the Power Supply. This circuit can create noise when the input is turned ON, but it will last only until the internal circuits stabilize and does not indicate any problem in the Product.



Period and Terms of Warranty

Warranty Period

The product warranty is valid for a period of three years from the date of shipment from the factory.

Terms of Warranty

The warranty is valid only for the following operating conditions.

- 1. Average ambient operating temperature of the product: 40°C max.
- 2. Average load rate: 80% max.
- 3. Mounting method: Standard mounting
- * The maximum ratings must be within the derating curve.

If the product fails for reasons attributable to OMRON within the above warranty period, OMRON will repair or replace the faulty part of the product at the place of purchase or the place where the product delivered without charge. This warranty does not cover the following types of failures.

- (1) Failures that result from handling or operation of the product under conditions or in environments that are not given in this document and not given in any other specifications exchanged between OMRON and the customer
- (2) Failures that originate in causes other than the delivered product itself
- (3) Failures caused by disassembly, modification, or repair of the product by anyone other than OMRON
- (4) Failures caused by applications or uses for which the product was not originally intended
- (5) Failures caused by factors that could not be anticipated with the scientific or technical knowledge available when the product was shipped
- (6) Failures caused by other causes for which OMRON is not responsible, such as natural disasters and other acts of God This warranty is limited to the individual product that was delivered and does not cover any secondary, subsequent, or related damages.

Recommended Replacement Periods and Periodic Replacement for Preventive Maintenance

The recommended replacement period for preventive maintenance is greatly influenced by the application environment of the product. As a guideline, the recommended replacement period is 7 to 10 years.*

To prevent failures or accidents that can be caused by using a product beyond its service live, we recommend that you replace the product as early as possible within the recommended replacement period.

However, bear in mind that the recommended replacement period is for reference only and does not guarantee the life of the product.

Many electronic components are used in the product and the product depends on the correct operation of these components to achieve the original product functions and performance.

However, the influence of the ambient temperature on aluminum electrolytic capacitors is large, and the service life is reduced by half for each 10°C rise in temperature (Arrhenius law).

When the capacity reduction life of the electrolytic capacitor is reached, the product failures or accidents may occur.

We therefore recommend that you replace the product periodically to minimize product failures or accidents in advance.

* The recommended replacement period applies under the following conditions: rated input voltage, load rate of 50% max., ambient temperature of 40°C max., and the standard mounting method. (The fan is excluded for models with fans.)

This product model is designed with a service life of 10 years minimum under the above conditions.

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Read and Understand this Catalog

Please read and understand this catalog before purchasing the product. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the product in the customer's application or use of the product.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used.

Know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.



Note: Do not use this document to operate the Unit.

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