



» The most compact class on the market

» Resistant in tough environments
» Easy and fast installation

Compact power supplies...

Omron has developed a new and exciting family of compact power supplies. With the same high quality and practical design that made our previous series safe, reliable, and easy to install, the new S8VK series is even tougher, more compact and easier to use.

Omron is a world leader in the development and manufacture of industrial power supplies. We launched our first compact product, the S82K, in 1987 and our S8VS compact series has been an automatic choice with customers since 2002.

To ensure that we provide the perfect solution to match every customer's need, Omron has launched 4 different families: the cost effective S8VK-C, the standard with single-phase input S8VK-G, the standard with three-phase input S8VK-T, and the redundancy unit S8VK-R.



...that make a world of difference!



Three compelling reasons why the S8VK is the right power supply for you:

Resistant in tough environments

Omron is confident that the quality of the S8VK will exceed your high expectations. Its robust design and construction withstand harsh environments and provide stable operation over a wide operating temperature range. Because of high MTBF figures, your S8VK will keep running in stable condition for a long term.

Easy and fast installation

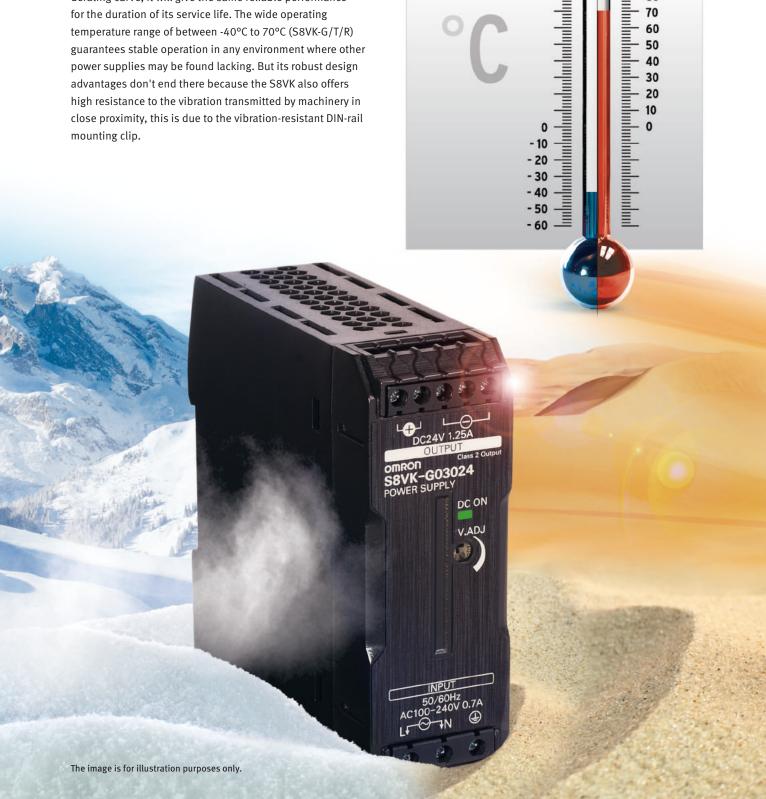
The S8VK series not only offers you greater flexibility when designing your machine, it also saves you time and reduces costs thanks to the minimal wiring requirements and easy one-handed mounting provided by the enhanced DIN-rail mounting clip.

The most compact class on the market

Designed with space saving in mind, the S8VK series is our most compact power-supply range ever and the most compact class on today's market.

Resistant in tough environments

Wherever the S8VK is installed within the range of the S8VK derating curve, it will give the same reliable performance



Easy and fast installation

Making your life easier

Simply click onto a standard DIN rail using one hand to mount in a flash. Effortless and time saving! In addition, the S8VK features a double set of DC output terminals (three for the negative terminal), which means you also spend less time and effort on wiring.





Long-life guaranteed

Designed to international safety standards for global markets, the S8VK even has approvals for marine applications (S8VK-G/T/R) and carries an across-the-board, warranty on all models no matter which country your machine is exported to! Because of high MTBF figures, your S8VK will keep running in stable condition for a long term.

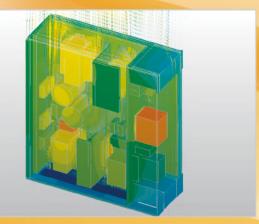
The most compact class on the market

Designed with downsizing in mind

Omron knows that size is important for machine designers, which is why we have applied our developed technology using thermal simulation for the design of the S8VK. This enabled the S8VK compact size body. This gives a high power density in a compact package. And the S8VK has an even sleeker exterior than any previous models.







Thermal view

Component view

The S8VK series line up

The perfect match for your needs

To ensure that we have the perfect solution to match every need, Omron offers three different families:

- The cost effective S8VK-C line with uncompromising quality.
- The standard S8VK-G and three phase S8VK-T, our "install & forget" option, offering longer lifetime, higher protection and more features.
- The redundancy unit S8VK-R designed for specific applications and special demands.

Featuring			Redundancy Unit			
		S8VK-C S8VK-G S8VK-T		S8VK-T	S8VK-R	
	Single Phase AC	100-240VAC		-	-	
INPUT	Three Phase AC	-	•	380-480VAC	-	
	DC	90-350VDC		450-600VDC* * Excluding 960 W	5-30VDC,10-60VDC	
Operatio	on Temperature	-25 °C to 60 °C	-40 °C to 70 °C	•	-40 °C to 70 °C	
Safety standards		UL 508 (Listing), UL 60950-1 (Recognition) cUL No.107-1, cUR No.60950-1 EN 50178, EN 60950-1		(120W) UL 508(Listing), EN 50178 (240/480/960W) UL 508 (Listing) UL 60950-1(Recognition) CUR No.60950-1 EN 50178, EN 60950-1	UL 508(Listing), UL 60950-1(Recognition cUL No.107.1, cUR No.60950-1 EN 50178, EN 60950-1	
CE	•	Yes	Yes	Yes	Yes	
RoHS		Yes	Yes Yes		Yes	
Marine a	applications	-	Lloyd's Register		Lloyd's Register	
EMI		EN61204-3 EN55011 ClassA	EN61204-3 EN55011 ClassB EN61204-3 EN55011 ClassB		EN61000-6-3 EN55011 ClassB	
Harmonic current emissions		EN 61000-3-2 (240W/480W)	EN 61000-3-2 EN 61000-3-2		-	
Parallel Operation		No	Yes Yes		-	
Additional features		No	Power boost 120%		Redundancy OK LED Voltage Balance LED	



S8VK Series line-up

Ordering information

S8VK-G series

Туре	Power ratings	Input voltage	Output voltage	Output current	Boost current	Size (W × H × D) [mm]	Order code
Power supply Single phase	15 W	100 to 240 VAC, 90 to 350 VDC 12 V 24 V 5 V 12 V 24 V 12 V 24 V 12 V 24 V 24 V 24 V 24 V 24 V 24 V	5 V	3 A	3.6 A	$22.5 \times 90 \times 90$	S8VK-G01505
			12 V	1.2 A	1.44 A		S8VK-G01512
			24 V	0.65 A	0.78 A		S8VK-G01524
	30 W		5 V	5 A	6 A	32 × 90 × 90	S8VK-G03005
			12 V	2.5 A	3 A		S8VK-G03012
			24 V	1.3 A	1.56 A		S8VK-G03024
	60 W		12 V	4.5 A	5.4 A	$32 \times 90 \times 110$ $40 \times 125 \times 112.2$ $60 \times 125 \times 140$	S8VK-G06012
			24 V	2.5 A	3 A		S8VK-G06024
	120 W		24 V	5 A	6 A		S8VK-G12024
	240 W		24 V	10 A	12 A		S8VK-G24024
			48 V	5 A	6 A		S8VK-G24048
	480 W		24 V	20 A	24 A	95 × 125 × 140	S8VK-G48024
			48 V	10 A	12 A		S8VK-G48048

S8VK-C series

Туре	Power ratings	Input voltage	Output voltage	Output current	Boost current	Size (W × H × D) [mm]	Order code
Power supply		100 to 240 VAC, 90 to 350 VDC	24 V	2.5 A	-	32 × 90 × 110	S8VK-C06024
Single phase	120 W		24 V	5 A	-	40 × 125 × 112.2	S8VK-C12024
	240 W		24 V	10 A	-	60 × 125 × 140	S8VK-C24024
	480 W		24 V	20 A	-	95 × 125 × 140	S8VK-C48024

S8VK-T series

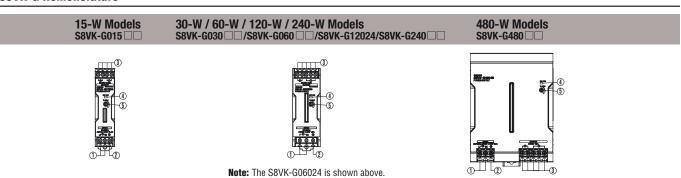
Туре	Power ratings	Input voltage	Output voltage	Output current	Boost current	Size (W × H × D) [mm]	Order code
Power supply	120 W		24 V	5 A	6 A	40 × 125 × 112.2	S8VK-T12024
Three phase	240 W		24 V	10 A	12 A	60 × 125 × 140	S8VK-T24024
	480 W		24 V	20 A	24 A	95 × 125 × 140	S8VK-T48024
	960 W	380 to 480 VAC	24 V	40 A	48 A	135 × 125 × 170	S8VK-T96024

S8VK-R series

Туре	Current ratings	Input voltage	Output current	Size (W × H × D) [mm]	Order code
Redundancy Module	10 A	5 to 30 VDC	10 A	32 × 90 × 110	S8VK-R10
	20 A	10 to 60 VDC	20 A	40 × 125 × 112.2	S8VK-R20

Series line-up S8VK-G

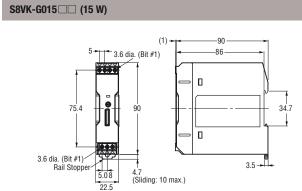
S8VK-G Nomenclature

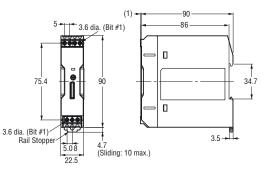


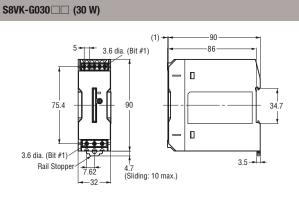
No.	Name	Function
1	Input terminals (L), (N)	Connect the input lines to these terminals. *1
2	Protective Earth terminal (PE)	Connect the ground line to this terminal. *2
3	DC Output terminals (-V), (+V)	Connect the load lines to these terminals.
4	Output indicator (DC ON: Green)	Lights while a direct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

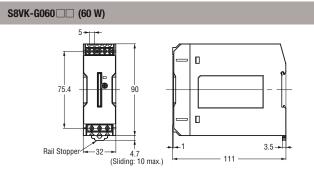
^{*1.} The fuse is located on the (L) side. It is not user-replaceable. For a DC input, connect the positive voltage to the L terminal. *2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.

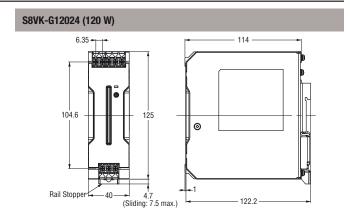
S8VK-G Dimensions

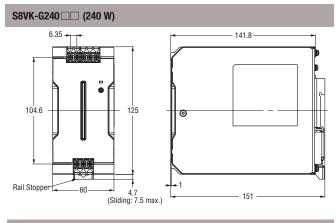


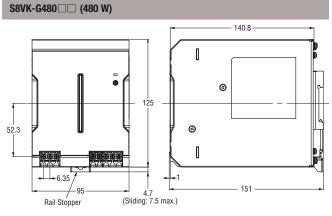








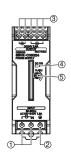


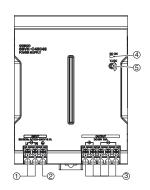


S8VK-C Nomenclature

60-W/120-W/240-W Models S8VK-C06024/S8VK-C12024/S8VK-C24024

480-W Model S8VK-C48024





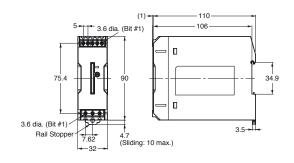
Note: The S8VK-C06024 is shown above.

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.

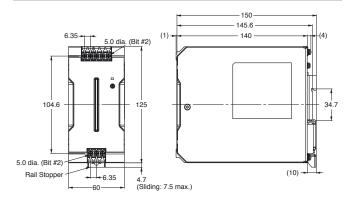
- *1. The fuse is located on the (L) side. It is not user-replaceable. For a DC input, connect the positive voltage to the L terminal.
- *2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.

S8VK-C Dimensions (Unit: mm)

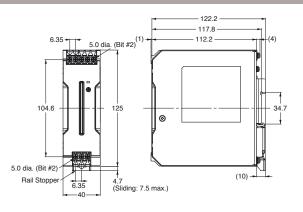
S8VK-C06024 (60 W)



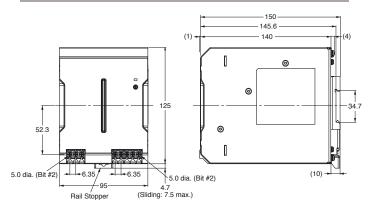
S8VK-C24024 (240 W)



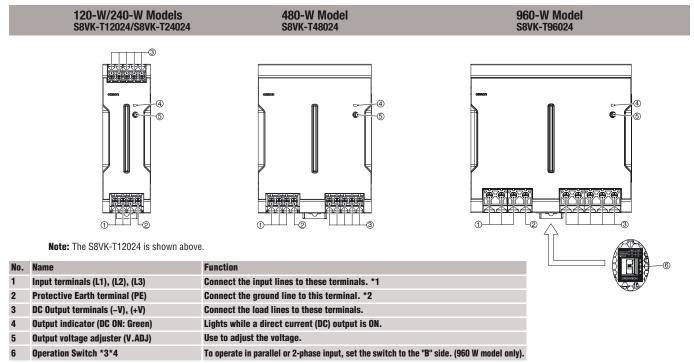
S8VK-C12024 (120 W)



S8VK-C48024 (480 W)



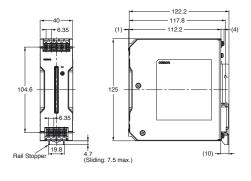
S8VK-T Nomenclature



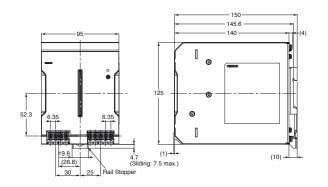
- *1. For wiring, refer to page 13 of the S8VK-T Datasheet (Cat. No. T061).
- *2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.
- *3. For parallel operation, refer to page 15 of the S8VK-T Datasheet (Cat. No. T061).
- *4. For 2-phase input, refer to page 15 of the S8VK-T Datasheet (Cat. No. T061).

S8VK-T Dimensions (Unit: mm)

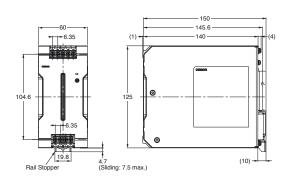
S8VK-T12024 (120 W)



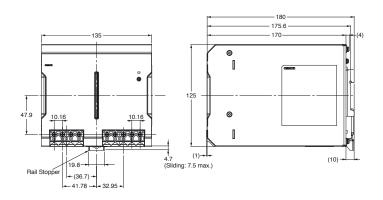
S8VK-T48024 (480 W)



S8VK-T24024 (240 W)



S8VK-T96024 (960 W)

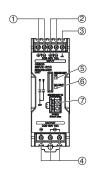


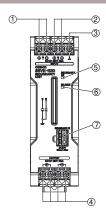
Series line-up S8VK-R

S8VK-R Nomenclature

10 A Model S8VK-R10

20 A Model S8VK-R20



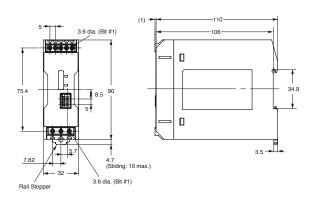


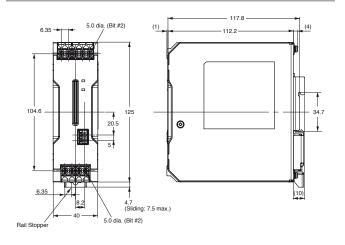
No.	Name	Function
1	Input terminal 1	Connect the input 1 lines to these terminals.
2	Input terminal 2	Connect the input 2 lines to these terminals.
3	,, terminal	This is not a ground terminal. There are no functional or safety concerns even if you do not connect it to ground.
4	Output terminal	Connect the load lines to these terminals.
5	Status indicator (redundancy OK: Green)	Lighting: Voltage difference between Vin1 and Vin2 is less than 2.4 V typ.
6	Status indicator (voltage balance: Green)	Lighting: Voltage difference between Vin1 and Vin2 is less than 50 mV typ.
7	Status contact (redundancy OK: photo switch)	Photo switch contact ON: Voltage difference between Vin1 and Vin2 is less than 2.4 V typ.

S8VK-R Dimensions (Unit: mm)

S8VK-R10

S8VK-R20





Note: Refer to the S8VK-G Datasheet (Cat. No. T056) for details. Refer to the S8VK-C Datasheet (Cat. No. T058) for details. Refer to the S8VK-R Datasheet (Cat. No. T059) for details. Refer to the S8VK-T Datasheet (Cat. No. T061) for details.

OMRON Corporation Industrial Automation Company

Tokyo, JAPAN

Contact: www.ia.omron.com

Regional Headquarters **OMRON EUROPE B.V.**

Wegalaan 67-69-2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark,

Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON ELECTRONICS LLC

One Commerce Drive Schaumburg, IL 60173-5302 U.S.A. Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

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CSM 2_3_0314 Cat. No. T057-E1-05

Printed in Japan 0314(0213)