

Discontinuation Notice of Switch Mode Power Supply S8VE series.

Product Discontinuation

Switch Mode Power Supply



Model S8VE series



Recommended Replacement

Switch Mode Power Supply

Model S8VS series
Model S8VK-C series

(S8VK-C series will be released in May 2013.)

[Discontinuation date]

The end of March, 2014

[Caution on recommended replacement]

None.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charact-eristics	Operation ratings	Operation methods
S8VS series	**	**	**	**	*	**	**

** : Compatible

* : The change is a little/Almost compatible









-- : Not compatible









- : No corresponding specification

[Product Discontinuation and recommended replacement]

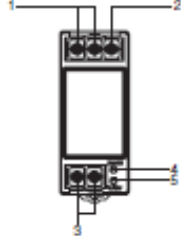
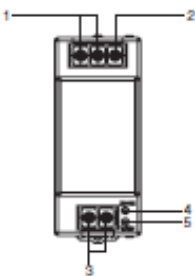
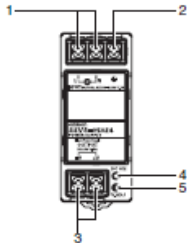
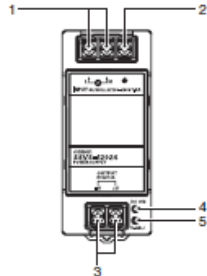
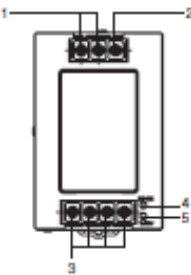
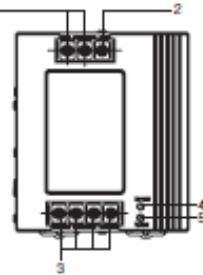
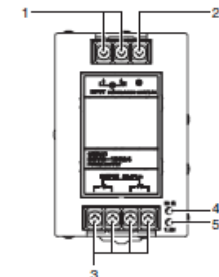
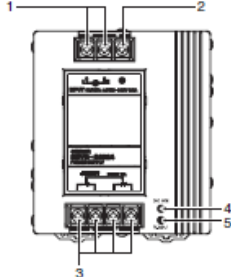
Product discontinuation	Recommended replacement
S8VE-06024	S8VS-06024
	S8VK-C06024
S8VE-06024-F	S8VS-06024-F
S8VE-09024	S8VS-09024
S8VE-09024-F	S8VS-09024-F
S8VE-12024	S8VS-12024
	S8VK-C12024
S8VE-12024-F	S8VS-12024-F
S8VE-18024	S8VS-18024
S8VE-18024-F	S8VS-18024-F
S8VE-24024	S8VS-24024
	S8VK-C24024
S8VE-24024-F	S8VS-24024-F

[Body color]

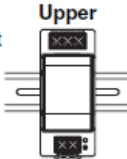
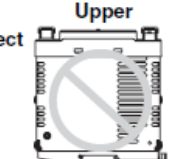
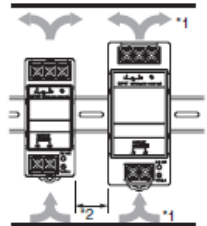
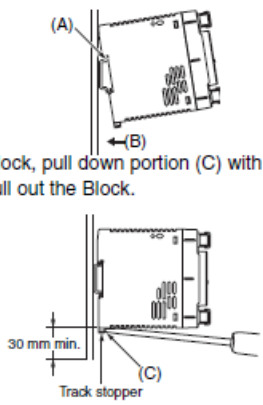
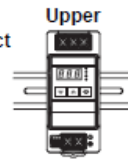
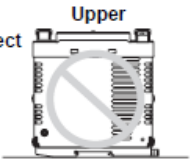
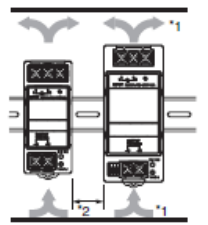
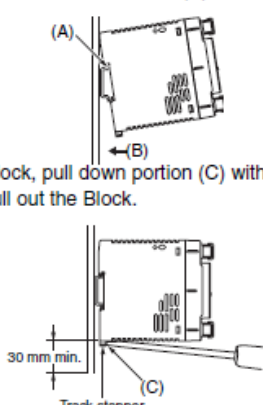
<p>Product discontinuation Model S8VE series</p>	<p>Recommendable replacement Model S8VS series</p>
<p>S8VE-06024</p> 	<p>S8VS-06024</p> 
<p>S8VE-09024 S8VE-12024</p> 	<p>S8VS-09024 S8VS-12024</p> 
<p>S8VE-18024</p> 	<p>S8VS-18024</p> 
<p>S8VE-24024</p> 	<p>S8VS-24024</p> 

<p>Product discontinuation Model S8VE series</p>	<p>Recommendable replacement Model S8VS series</p>
<p>S8VE-06024-F</p> 	<p>S8VS-06024-F</p> 
<p>S8VE-09024-F S8VE-12024-F</p> 	<p>S8VS-09024-F S8VS-12024-F</p> 
<p>S8VE-18024-F</p> 	<p>S8VS-18024-F</p> 
<p>S8VE-24024-F</p> 	<p>S8VS-24024-F</p> 

[Wire connection]

Product discontinuation Model S8VE series		Recommendable replacement Model S8VS series																																					
<p>60-W Models Standard Model S8VE-06024</p> 	<p>90-W/120-W Models Standard Models S8VE-09024/S8VE-12024</p> 	<p>60-W Models Standard Model S8VS-06024</p> 	<p>90-W/120-W Models Standard Models S8VS-09024/S8VS-0924S/ S8VS-12024</p> 																																				
<p>180-W Models Standard Model S8VE-18024</p> 	<p>240-W Models Standard Model S8VE-24024</p> 	<p>180-W Models Standard Model S8VS-18024</p> 	<p>240-W Models Standard Model S8VS-24024</p> 																																				
<p>* The terminal arrangement is the same for models with screwless terminal blocks and standard models.</p>		<p>* The terminal arrangement is the same for models with screwless terminal blocks and standard models.</p>																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Name</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>AC Input terminals (L), (N)</td> <td>Connect the input lines to these terminals. *1</td> </tr> <tr> <td>2</td> <td>Protective Earth terminal (PE)</td> <td>Connect the ground line to this terminal. *2</td> </tr> <tr> <td>3</td> <td>DC Output terminals (-V), (+V)</td> <td>Connect the load lines to these terminals.</td> </tr> <tr> <td>4</td> <td>Output indicator (DC ON: Green)</td> <td>Lights while a direct current (DC) output is ON.</td> </tr> <tr> <td>5</td> <td>Output voltage adjuster (V.ADJ)</td> <td>Use to adjust the voltage.</td> </tr> </tbody> </table> <p>*1. The fuse is located on the (L) side. It is NOT user replaceable. *2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.</p>		No.	Name	Function	1	AC 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.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Name</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Input terminals (L), (N)</td> <td>Connect the input lines to these terminals. *1</td> </tr> <tr> <td>2</td> <td>Protective Earth terminal (PE)</td> <td>Connect the ground line to this terminal. *2</td> </tr> <tr> <td>3</td> <td>DC Output terminals (-V), (+V)</td> <td>Connect the load lines to these terminals.</td> </tr> <tr> <td>4</td> <td>Output indicator (DC ON: Green)</td> <td>Lights while a direct current (DC) output is ON.</td> </tr> <tr> <td>5</td> <td>Output voltage adjuster (V.ADJ)</td> <td>Use to adjust the voltage. *3</td> </tr> </tbody> </table> <p>*1. The fuse is located on the (L) side. 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. *3. The output voltage cannot be adjusted for the S8VS-09024□□□□S.</p>		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. *3
No.	Name	Function																																					
1	AC 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.																																					
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. *3																																					

[Mounting dimensions]

<p align="center">Product discontinuation Model S8VE series</p>	<p align="center">Recommendable replacement Model S8VS series</p>
<p>Mounting</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Correct</p>  <p>Standard mounting</p> </div> <div style="text-align: center;"> <p>Incorrect</p>  <p>Face-up mounting</p> </div> </div> <p>Note: Improper mounting will interfere with heat dissipation and may occasionally result in deterioration or damage of internal parts. Use the standard mounting method only.</p> <ul style="list-style-type: none"> 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. <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>*1. Convection of air *2. 20 mm min.</p> </div> </div> <p>60-W, 90-W, 120-W, 180-W, and 240-W Models</p> <ul style="list-style-type: none"> Improper mounting will interfere with heat dissipation and may occasionally result in deterioration or damage of internal parts. Use the standard mounting method only. The internal parts may occasionally deteriorate and be broken due to adverse heat radiation. Do not loosen the screw on the side face of the main body. <p>DIN Rail Mounting</p> <p>To mount the Block on a DIN Rail, hook portion (A) of the Block onto the rail and press the Block in direction (B).</p>  <p>To dismount the Block, pull down portion (C) with a flat-blade screwdriver and pull out the Block.</p>	<p>Mounting</p> <p align="center">60, 90, 120, 180, 240, and 480 W</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Correct</p>  <p>Standard mounting</p> </div> <div style="text-align: center;"> <p>Incorrect</p>  <p>Face-up mounting</p> </div> </div> <p>Note: Improper mounting will interfere with heat dissipation and may occasionally result in deterioration or damage of internal parts. It may also result in failure of the maintenance forecast monitor function. Use the standard mounting method only.</p> <ul style="list-style-type: none"> 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. <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>*1. Convection of air *2. 20 mm min.</p> </div> </div> <p>60-W, 90-W, 120-W, 180-W, 240-W, and 480-W Models</p> <ul style="list-style-type: none"> Improper mounting will interfere with heat dissipation and may occasionally result in deterioration or damage of internal parts. Use the standard mounting method only. The internal parts may occasionally deteriorate and be broken due to adverse heat radiation. Do not loosen the screw on the side face of the main body. <p>DIN Rail Mounting</p> <p>To mount the Block on a DIN Rail, hook portion (A) of the Block onto the rail and press the Block in direction (B).</p>  <p>To dismount the Block, pull down portion (C) with a flat-blade screwdriver and pull out the Block.</p>

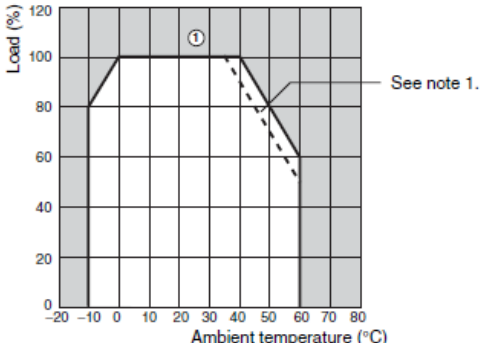
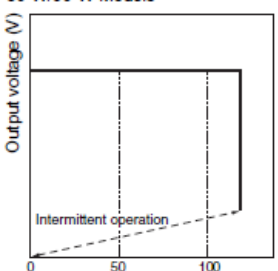
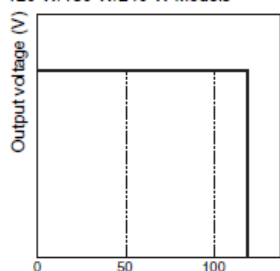
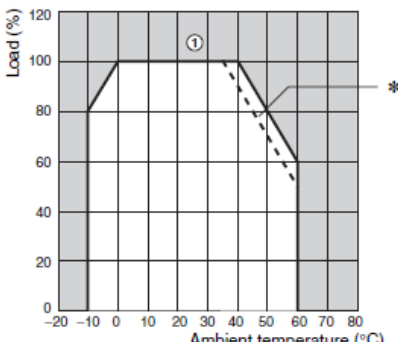
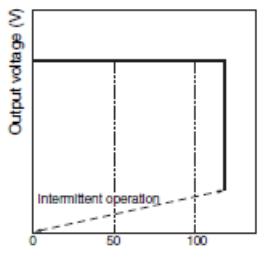
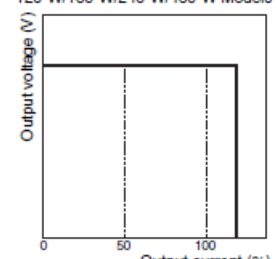
[Dimensions]

<p align="center">Product discontinuation Model S8VE series</p>	<p align="center">Recommendable replacement Model S8VS series</p>
<p>S8VE-06024</p> <p>Five, M4 terminal screws with square washers</p> <p>Rail stopper (Sliding: 15 max.)</p>	<p>S8VS-06024</p> <p>Five, M4 terminal screws with square washers</p> <p>Rail stopper (Sliding: 15 max.)</p> <p>Note: The illustration is the S8VS-06024A model.</p>
<p>S8VE-09024 S8VE-12024</p> <p>Five, M4 terminal screws with square washers</p> <p>Rail stopper (Sliding: 15 max.)</p> <p>Note: The illustration shows the S8VE-12024 model.</p>	<p>S8VS-09024 S8VS-12024</p> <p>Five, M4 terminal screws with square washers</p> <p>Rail stopper (Sliding: 15 max.)</p> <p>Screwless block (2.5-mm pitches)</p> <p>Note: The illustration is the S8VS-12024A model.</p>
<p>S8VE-18024</p> <p>Seven, M4 terminal screws with square washers</p> <p>Rail stopper (Sliding: 15 max.)</p>	<p>S8VS-18024</p> <p>Seven, M4 terminal screws with square washers</p> <p>Rail stopper (Sliding: 15 max.)</p> <p>Screwless block (2.5-mm pitches)</p> <p>Note: The illustration is the S8VS-18024A model.</p>
<p>S8VE-24024</p> <p>Seven, M4 terminal screws with square washers</p> <p>Rail stopper (Sliding: 15 max.)</p> <p>Rail stopper</p>	<p>S8VS-24024</p> <p>Seven, M4 terminal screws with square washers</p> <p>Rail stopper (Sliding: 15 max.)</p> <p>Rail stopper</p> <p>Screwless block (2.5-mm pitches)</p> <p>Note: The illustration shows the S8VS-24024A model.</p>

[Characteristics]

Item	Product discontinuation Model S8VE series	Recommendable replacement Model S8VS series
Input Voltage	100 to 240 VAC (allowable range: 85 to 264 VAC)	100 to 240 VAC (allowable range: 85 to 264 VAC or 80 to 370 VDC)
Inrush current	25 A max. (100 VAC input) 50 A max. (200 VAC input) * for a cold start at 25°C	17.5 A max., 14 A typical (for 100 VAC input) 35 A max., 28 A typical (for 200 VAC input) * for a cold start at 25°C
Start up time	1000 ms max. (at rated input/output voltage)	60 W 620 ms typical (for 100 VAC input) 400 ms typical (for 200 VAC input) 90 W 460 ms typical (for 100 VAC input) 300 ms typical (for 200 VAC input) 120 W 550 ms typical (for 100 VAC input) 400 ms typical (for 200 VAC input) 180 W 570 ms typical (for 100 VAC input) 470 ms typical (for 200 VAC input) 240 W 540 ms typical (for 100 VAC input) 230 ms typical (for 200 VAC input)
Output hold time	20 ms min. (at rated input/output voltage)	60 W 34 ms typical (for 100 VAC input) 158 ms typical (for 200 VAC input) 90 W 28 ms typical (for 100 VAC input) 132 ms typical (for 200 VAC input) 120 W 52 ms typical (for 100 VAC input) 54 ms typical (for 200 VAC input) 180 W 58 ms typical (for 100 VAC input) 62 ms typical (for 200 VAC input) 240 W 64 ms typical (for 100 VAC input) 64 ms typical (for 200 VAC input)
Overload protection	105% to 160% of rated load current, Voltage drop, automatic reset.	105% to 160% of rated load current, Inverted L voltage drop, Automatic reset.
Parallel operation	No	No (However, backup operation is possible. An external diode is required.)
EMI (Conducted Emissions)	Conforms to EN6120-3 EN55011 Class A and based on FCC Class A	Conforms to EN6120-3 EN55011 Class B and based on FCC Class A
EMI (Radiated Emissions)	Conforms to EN61204-3 EN55011 Class A	Conforms to EN61204-3 EN55011 Class B
Approved standards	UL: UL508 (Listing), UL60950-1 cUL: CSA C22.2 No.107.1 cUR: CSA No.60950-1 EN/VDE: EN60950-1 According to VDE 0106/P100, IP20 (except terminal block)	UL Listed: UL508 (Listing, Class 2 Output: Per 1310) UL UR: UL60950-1 (Recognition) cUL: CSA C22.2 No.107.1 (Class 2 Output: Per CSA C22.2 No.223) cUR: CSA C22.2 No.60950-1 EN/VDE: EN50178 (=VDE0160), EN60950-1 (=VDE0805 Teil1)

[Operation ratings]

Product discontinuation Model S8VE series	Recommendable replacement Model S8VS series
<p>Derating Curve</p>  <p>Note: 1. Using side mounting bracket for right-side mounting (excluding 240-W models). 2. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading ① in the above graph). 3. If there is a derating problem, use forced air-cooling.</p> <p>Overload Protection</p> <p>The Power Supply is provided with an overload protection function that protects the power supply from possible damage by overcurrent. When the output current rises above 105% min. of the rated current, the protection function is triggered, decreasing the output voltage. When the output current falls within the rated range, the overload protection function is automatically cleared.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="143 1086 422 1400"> <p>60-W/90-W Models</p>  </div> <div data-bbox="446 1086 726 1400"> <p>120-W/180-W/240-W Models</p>  </div> </div> <p>The values shown in the above diagrams are for reference only.</p> <p>Note: 1. Internal parts may occasionally deteriorate or be damaged if a short-circuited or overcurrent state continues during operation. 2. 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.</p>	<p>Derating Curve 60, 90, 120, 180, 240, and 480 W</p>  <p>Note: 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading ① in the above graph). 2. If there is a derating problem, use forced air-cooling. 3. When using a 480-W model at an input voltage of 95 VAC or less, derate the load by at least 80%. 4. DC Inputs If the input voltage is less than 100 VDC, reduce the load given in the above derating curve by at least the following factor. 60-W models: 0.9 max. 90-W models: 0.85 max. 120-W/180-W/240-W models: 0.8 max.</p> <p>Overload Protection</p> <p>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.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="837 1344 1117 1646"> <p>60-W/90-W Models</p>  </div> <div data-bbox="1157 1344 1436 1646"> <p>120-W/180-W/240-W/480-W Models</p>  </div> </div> <p>Note: 1. Internal parts may occasionally deteriorate or be damaged if a short-circuited or overcurrent state continues during operation. 2. 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.</p>

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.