PRODUCT NEWS

NO: SD-107 **PRODUCT:** S8VM Power Supplies
DATE: February 2018 **TYPE:** Discontinuation Notice

S8VM Power Supplies will be discontinued February 2019

Discontinuation Date: February 2019
Note: Date is subject to change based on raw materials and components availability at the factory.

Overview Summary

Product Discontinuation Switch Mode Power Supply	Recommended Replacement Switch Mode Power Supply
Model S8VM series **15/35/50/100/150W Models** **Under Voltage Alarm Function Models**	**Model S8FS-G series** **15/30/50/100/150W Models** **Model S8VS series (with Indication Monitor)** **60/90/120/180W Models**
Model S8VM series **300W (5V, 12V, 24V) Model** **600W (5V, 12V, 24V) Model**	**Model S8JX-P series** **300W (5V, 12V, 24V) Model** **600W (5V, 12V, 24V) Model**
Model S8VM series **300W (15V) Model** **600W (15V) Model** **1500W (15V) Model**	**Model S8FS-G series** **300W (15V) Model** **600W (15V) Model** **600W (24V) Model (models with parallel operation option)**
Mounting Bracket **Model S82Y-VM□□B** **Model S82Y-VM□□F** **Model S82Y-VM□□S** **Model S82Y-VM□□D**	**Mounting Bracket** **No recommended replacement** **No recommended replacement** **No recommended replacement** **No recommended replacement**
Under Voltage Alarm Output Wiring Cable **Model S82Y-VM10H**	**Under Voltage Alarm Output Wiring Cable** **No recommended replacement**
Signal I/O Connector Terminals and Housing **Model S82Y-VM30CN**	**Signal I/O Connector Terminals and Housing** **No recommended replacement**

Cautions on Applying Replacements

- Dimensions are different.
- Wire connection is different.
- Mounting method is different.
- Startup time takes longer.
- Output hold time takes shorter.
- Overcurrent protection characteristics are different.
- Some models are not designed for parallel operation.
- Some models are not designed for remote sensing function.
- Some models have different derating curve.
- As the recommended replacement of S8VM-15224C, parallel connection of S8FS-G60024C-W is necessary.
- The output capacitance of the S8FS-G05005□□ is 40 W.
- The output capacitance of the S8FS-G10005□□ is 80 W.
- The output capacitance of the S8FS-G15005□□ is 105 W.

See the detail of differences on the following pages

Affected Parts

DIN Rail mounting / Covered type

Product discontinuation	Recommended replacement
Model	Model
S8VM-01505CD	S8FS-G01505CD
S8VM-01512CD	S8FS-G01512CD
S8VM-01515CD	S8FS-G01515CD
S8VM-01524CD	S8FS-G01524CD
S8VM-03005CD	S8FS-G03005CD
S8VM-03012CD	S8FS-G03012CD
S8VM-03015CD	S8FS-G03015CD
S8VM-03024CD	S8FS-G03024CD
S8VM-05005CD	S8FS-G05005CD (*1)
S8VM-05012CD	S8FS-G05012CD
S8VM-05015CD	S8FS-G05015CD
S8VM-05024CD	S8FS-G05024CD
S8VM-10005CD	S8FS-G10005CD (*2)
S8VM-10012CD	S8FS-G10012CD
S8VM-10015CD	S8FS-G10015CD
S8VM-10024CD	S8FS-G15024CD
S8VM-15005CD	S8FS-G15005CD (*3)
S8VM-15012CD	S8FS-G15012CD
S8VM-15015CD	S8FS-G15015CD
S8VM-15024CD	S8FS-G15024CD

*1. The output capacity is 40 W.
*2. The output capacity is 80 W.
*3. The output capacity is 105 W.

Bottom mounting / Covered type

Product discontinuation	Recommended replacement
Model	**Model**
S8VM-01505C	S8FS-G01505C
S8VM-01512C	S8FS-G01512C
S8VM-01515C	S8FS-G01515C
S8VM-01524C	S8FS-G01524C
S8VM-03005C	S8FS-G03005C
S8VM-03012C	S8FS-G03012C
S8VM-03015C	S8FS-G03015C
S8VM-03024C	S8FS-G03024C
S8VM-05005C	S8FS-G05005C (*1)
S8VM-05012C	S8FS-G05012C
S8VM-05015C	S8FS-G05015C
S8VM-05024C	S8FS-G05024C
S8VM-10005C	S8FS-G10005C (*2)
S8VM-10012C	S8FS-G10012C
S8VM-10015C	S8FS-G10015C
S8VM-10024C	S8FS-G15024C
S8VM-15005C	S8FS-G15005C (*3)
S8VM-15012C	S8FS-G15012C
S8VM-15015C	S8FS-G15015C
S8VM-15024C	S8FS-G15024C
S8VM-30005C	S8JX-P30005N
S8VM-30012C	S8JX-P30012N
S8VM-30015C	S8FS-G30015C
S8VM-30024C	S8JX-P30024N
S8VM-60005C	S8JX-P60005N
S8VM-60012C	S8JX-P60012N
S8VM-60015C	S8FS-G60015C
S8VM-60024C	S8JX-P60024N
S8VM-15224C	S8FS-G60024C-W (*4)

*1. The output capacity is 40 W.
*2. The output capacity is 80 W.
*3. The output capacity is 105 W.
*4. With parallel operation.

DIN Rail mounting / Covered type Undervoltage Alarm Function Model with Cover

Product discontinuation	Recommended replacement
Model	**Model**
S8VM-01524AD	S8VS-06024A
S8VM-03024AD	S8VS-06024A
S8VM-05024AD	S8VS-09024A
S8VM-05024PD	S8VS-09024AP
S8VM-10024AD	S8VS-12024A
S8VM-10024PD	S8VS-12024AP
S8VM-15024AD	S8VS-18024A
S8VM-15024PD	S8VS-18024AP

Bottom mounting / Covered type Undervoltage Alarm Function Model with Cover

Product discontinuation	Recommended replacement
Model	**Model**
S8VM-01524A	S8VS-06024A
S8VM-03024A	S8VS-06024A
S8VM-05024A	S8VS-09024A
S8VM-05024P	S8VS-09024AP
S8VM-10024A	S8VS-12024A
S8VM-10024P	S8VS-12024AP
S8VM-15024A	S8VS-18024A
S8VM-15024P	S8VS-18024AP

- There are no recommended products for open-frame type.

DIN Rail mounting / Open-frame type

Product discontinuation	Recommended replacement
Model	**Model**
S8VM-01505D	S8FS-G01505CD
S8VM-01512D	S8FS-G01512CD
S8VM-01515D	S8FS-G01515CD
S8VM-01524D	S8FS-G01524CD
S8VM-03005D	S8FS-G03005CD
S8VM-03012D	S8FS-G03012CD
S8VM-03015D	S8FS-G03015CD
S8VM-03024D	S8FS-G03024CD
S8VM-05005D	S8FS-G05005CD (*1)
S8VM-05012D	S8FS-G05012CD
S8VM-05015D	S8FS-G05015CD
S8VM-05024D	S8FS-G05024CD
S8VM-10005D	S8FS-G10005CD (*2)
S8VM-10012D	S8FS-G10012CD
S8VM-10015D	S8FS-G10015CD
S8VM-10024D	S8FS-G10024CD
S8VM-15005D	S8FS-G15005CD (*3)
S8VM-15012D	S8FS-G15012CD
S8VM-15015D	S8FS-G15015CD
S8VM-15024D	S8FS-G15024CD

- There are no recommended products for open-frame type.

*1. The output capacity is 40 W.
*2. The output capacity is 80 W.
*3. The output capacity is 105 W.

Bottom mounting / Open-frame type

Product discontinuation	Recommended replacement
Model	**Model**
S8VM-01505	S8FS-G01505C
S8VM-01512	S8FS-G01512C
S8VM-01515	S8FS-G01515C
S8VM-01524	S8FS-G01524C
S8VM-03005	S8FS-G03005C
S8VM-03012	S8FS-G03012C
S8VM-03015	S8FS-G03015C
S8VM-03024	S8FS-G03024C
S8VM-05005	S8FS-G05005C (*1)
S8VM-05012	S8FS-G05012C
S8VM-05015	S8FS-G05015C
S8VM-05024	S8FS-G05024C
S8VM-10005	S8FS-G10005C (*2)
S8VM-10012	S8FS-G10012C
S8VM-10015	S8FS-G10015C
S8VM-10024	S8FS-G15024C
S8VM-15005	S8FS-G15005C (*3)
S8VM-15012	S8FS-G15012C
S8VM-15015	S8FS-G15015C
S8VM-15024	S8FS-G15024C

- There are no recommended products for open-frame type.

*1. The output capacity is 40 W.
*2. The output capacity is 80 W.
*3. The output capacity is 105 W.

Sold separately

Product discontinuation	Recommended replacement
S82Y-VM10B	No recommended replacement
S82Y-VM20B	No recommended replacement
S82Y-VM10F	No recommended replacement
S82Y-VM30B	No recommended replacement
S82Y-VM30S	No recommended replacement
S82Y-VM30F	No recommended replacement
S82Y-VM30D	No recommended replacement
S82Y-VM60B	No recommended replacement
S82Y-VM60S	No recommended replacement
S82Y-VM60F	No recommended replacement
S82Y-VM60D	No recommended replacement
S82Y-VM10H	No recommended replacement
S82Y-VM30C	No recommended replacement

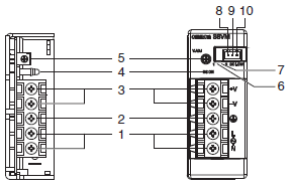
Detail of differences

Terminal Arrangement / Wire Connection

Product discontinuation
Model S8VM series

<15W.30W.50W Models>

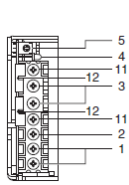
Open-frame Models



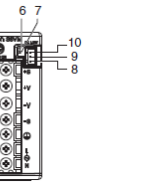
Covered Models

<100W Model>

Open-frame Models

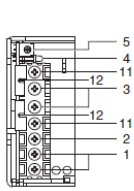


Covered Models

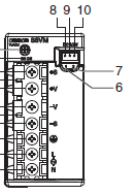


<150W Model >

Open-frame Models



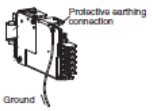
Covered Models



No.	Name	Function
1	AC input terminals (L), (N)	Connect the input lines to these terminals. (See note 1.)
2	PE terminal: Protective earthing terminal (S8VM-□□□□□C□/S8VM-□□□□□A□/S8VM-□□□□□P□) FG terminal: Frame ground terminal (S8VM-□□□□□/S8VM-□□□□□D)	Connect the ground line to this terminal. (See note 2.)
3	DC output terminals (-V), (+V)	Connect the load lines to these terminals.
4	Output indicator (DC ON: Green)	Lights (green) while a direct current (DC) output is ON.
5	Output voltage adjuster (V. ADJ)	Use to adjust the voltage.
6	Undervoltage alarm indicator 1 (DC LOW1: Yellow) (See note 3.)	Lights only when a momentary drop in output voltage is detected. This status is maintained.
7	Undervoltage alarm indicator 2 (DC LOW2: Red) (See note 3.)	Lights only when the output voltage drops to approximately 20 V or lower.
8	Undervoltage alarm output terminal 1: (DC LOW1) (See note 4.)	Outputs only when a momentary drop in output voltage is detected. This status is maintained. (The transistor turns OFF when a voltage drop occurs.)
9	Undervoltage alarm output terminal 2: (DC LOW2) (See note 4.)	Outputs only when the output voltage drops to approximately 20 V or lower. (The transistor turns OFF when a voltage drop occurs.)
10	Common terminal for undervoltage alarm output (See note 4.)	Common terminal (See note 6.) for terminals 8 and 9
11	Remote sensing terminals (See note 5.)	Correct the voltage drop in the load lines.
12	Short bars (See note 5.)	---

Note: 1. The fuse is located on the (L) side. It is NOT user-replaceable.

2. If mounting is performed using a DIN Rail, the protective earthing connection is the panel mounting hole shown in the figure below.
(A protective earthing connection stipulated in safety standards is used. Connect the ground completely (S8VM-□□□□□D only)).
Ground terminal: M3 (Depth: 8 mm max.)/Ground wire: AWG 18



3. S8VM-□□□□24A□/P□ only

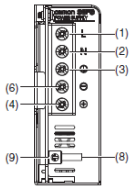
4. S8VM-05024A□/P□, S8VM-10024A□/P□, S8VM-15024A□/P□ only. Housing and terminals of the connector for undervoltage detection output are also provided. For details, refer to *Undervoltage Alarm Output Connector Harness Manufacture Method* on page 35 under *Safety Precautions*.

5. When not using the remote sensing function, leave the short bar in the same state as when shipped.

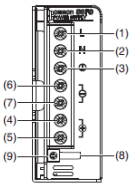
6. A□ models: Common terminal (emitter)
P□ models: Common terminal (collector)

Recommendable replacement
Model S8FS-G series

<15W,30W,50W Models>



<100W,150W Models>



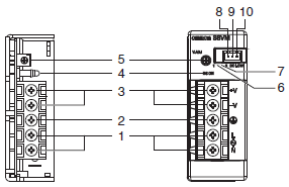
No.	Terminal name	Name	Function
(1)	L	Input terminals	Connect the input lines to these terminals. ✻1
(2)	N		
(3)	PE	Protective Earth terminal (⏚)	Connect the ground line to this terminal. ✻2
(4)	+V1	DC output terminals	Connect the load lines to these terminals.
(5)	+V2		
(6)	-V1		
(7)	-V2		
(8)	---	Output indicator (DC ON: green)	Lights while a direct current (DC) output is ON.
(9)	---	Output voltage adjuster (V.ADJ)	Use to adjust the voltage.
(10)	+RC	Remote control terminals	Wire for remote control.
(11)	-RC		
(12)	---	Parallel operation switch	To operate in parallel, set the switch to the "PARALLEL" side.

✻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.

Product discontinuation
Model S8VM series
(Undervoltage Alarm Function)

<15W.30W.50W Models>

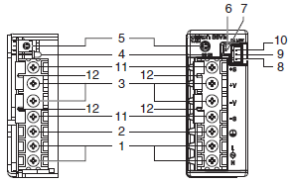
Open-frame Models



Covered Models

<100W Model>

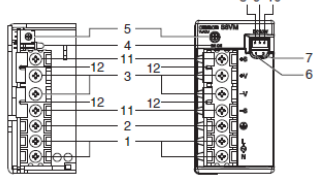
Open-frame Models



Covered Models

<150W Model>

Open-frame Models

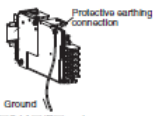


Covered Models

No.	Name	Function
1	AC input terminals (L), (N)	Connect the input lines to these terminals. (See note 1.)
2	PE terminal: Protective earthing terminal (S8VM-□□□□□□/C□/S8VM-□□□□□□A□/S8VM-□□□□□□P□) FG terminal: Frame ground terminal (S8VM-□□□□□□/S8VM-□□□□□□D)	Connect the ground line to this terminal. (See note 2.)
3	DC output terminals (-V), (+V)	Connect the load lines to these terminals.
4	Output indicator (DC ON: Green)	Lights (green) while a direct current (DC) output is ON.
5	Output voltage adjuster (V. ADJ)	Use to adjust the voltage.
6	Undervoltage alarm indicator 1 (DC LOW1: Yellow) (See note 3.)	Lights only when a momentary drop in output voltage is detected. This status is maintained.
7	Undervoltage alarm indicator 2 (DC LOW2: Red) (See note 3.)	Lights only when the output voltage drops to approximately 20 V or lower.
8	Undervoltage alarm output terminal 1: (DC LOW1) (See note 4.)	Outputs only when a momentary drop in output voltage is detected. This status is maintained. (The transistor turns OFF when a voltage drop occurs.)
9	Undervoltage alarm output terminal 2: (DC LOW2) (See note 4.)	Outputs only when the output voltage drops to approximately 20 V or lower. (The transistor turns OFF when a voltage drop occurs.)
10	Common terminal for undervoltage alarm output (See note 4.)	Common terminal (See note 6.) for terminals 8 and 9
11	Remote sensing terminals (See note 5.)	Correct the voltage drop in the load lines.
12	Short bars (See note 5.)	—

Note: 1. The fuse is located on the (L) side. It is NOT user-replaceable.

2. If mounting is performed using a DIN Rail, the protective earthing connection is the panel mounting hole shown in the figure below.
(A protective earthing connection stipulated in safety standards is used. Connect the ground completely (S8VM-□□□□□□D only)).
Ground terminal: M3 (Depth: 8 mm max.)/Ground wire: AWG 18



3. S8VM-□□□□24A□/P□ only

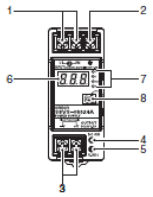
4. S8VM-05024A□/P□, S8VM-10024A□/P□, S8VM-15024A□/P□ only. Housing and terminals of the connector for undervoltage detection output are also provided. For details, refer to *Undervoltage Alarm Output Connector Harness Manufacture Method* on page 35 under *Safety Precautions*.

5. When not using the remote sensing function, leave the short bar in the same state as when shipped.

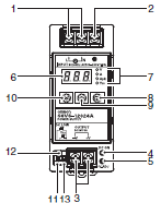
6. A□ models: Common terminal (emitter)
P□ models: Common terminal (collector)

Recommendable replacement
Model S8VS series
(with Indication Monitor)

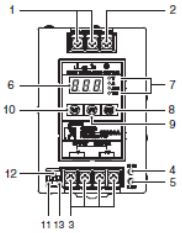
<60W Model (with Indication Monitor)>



<90W,120W Models (with Indication Monitor)>



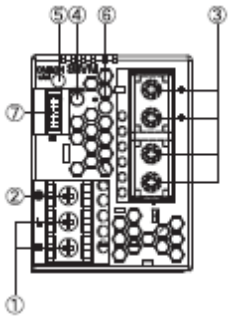
<180W Model (with Indication Monitor)>



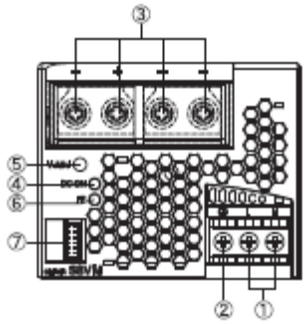
No.	Name		Function
1	Input terminals (L), (N)		Connect the input lines to these terminals. *1
2	Protective Earth terminal (PE)		Connect the ground line to this terminal. *2
3	DC Output terminals (–V), (+V)		Connect the load lines to these terminals.
4	Output indicator (DC ON: Green)		Lights while a direct current (DC) output is ON.
5	Output voltage adjuster (V.ADJ)		Use to adjust the voltage. *3
6	Main display (Red) *4		Indicates the measurement or set value.
7	Operation indicator (Orange) *4	V	Lights up when the output voltage is indicated. Blinks during setup of undervoltage alarm value.
		A	Lights up during indication of output current.
		Apk	Lights up during indication of peak hold current.
		Yrs	Lights up during indication of maintenance forecast monitor. Blinks during setup of maintenance forecast monitor setting. (S8VS-□□□24A□□)
		kh	Lights up during indication of total run time monitor. Blinks during setup of total run time monitor. (S8VS-□□□24B□□)
8	Mode Key *4		Use the Mode Key to change the indicated parameter or reset the peak hold current value.
9	Up Key *5		Use the Up Key to change to the setting mode or to increase the set value.
10	Down Key *5		Use the Down Key to change to the setting mode or to decrease the set value.
11	Alarm outputs *5, *6	Undervoltage output terminal (DC Low)	Output when a drop is detected in the output voltage (voltage drop = transistor OFF).
12		Maintenance Forecast output terminal (Yrs) *7	Output when the set value for maintenance is reached (transistor OFF).
		Total run time output terminal (kh) *8	Output when the set value for total run time is reached (transistor OFF).
13		Common terminal	Common terminal for terminals 11 and 12.

Product discontinuation
Model S8VM series

<300W(5V,12V,24V) Model>



<600W(5V,12V,24V) Models>



No.	Name	Function
1	AC input terminals (L), (N)	Connect the input lines to these terminals. (See note 1.)
2	PE terminal: Protective earthing terminal (⏚) (S8VM-300□□C/S8VM-600□□C) FG terminal: Frame ground terminal (S8VM-15224C)	Connect the ground line to this terminal. (See note 2.)
3	DC output terminals (–V), (+V)	Connect the load lines to these terminals.
4	Output indicator (DC ON: Green)	Lights (green) while a direct current (DC) output is ON.
5	Output voltage adjuster (V.ADJ)	Use to adjust the voltage.
6	Power failure alarm indicator (PF: Red)	Lights when the output voltage decreases, the fan stops, and the system is on standby using the remote control function.
7	Signal I/O connector (See note 3.) 2 1 4 3 6 5 8 7 10 9 12 11 CN	1: DC output monitor pin (+V) 2: Remote sensing pin (+S) 3: DC output monitor pin (–V) 4: Remote sensing pin (–S) 5: Current balance pin (CB) 6: Signal ground pin for current balance (CBG) 7: Remote control pin (+RC) 8: Remote control pin (–RC) 9: No connect 10: No connect 11: Power failure alarm output pin (PF-C) (collector) 12: Power failure alarm output pin (PF-E) (emitter)

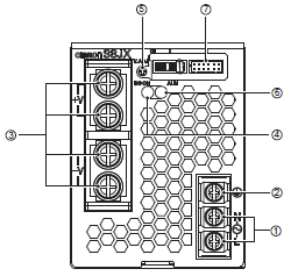
Note: 1. The fuse is located on the (L) side. It is NOT user-replaceable.

2. Protective earthing connection is the panel mounting hole of the metal case. (A protective earthing connection stipulated in safety standards is used. Connect the ground completely).
Ground terminal: M4 (Depth: 6 mm max.)/Ground wire: AWG 18

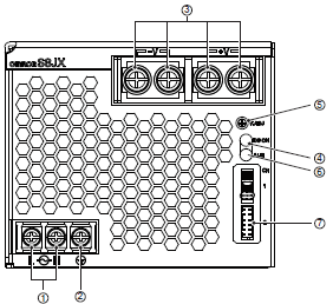
3. The standard supplied connector for signal I/O is mounted to CN when S8VM is shipped. The supplied signal I/O connector shorts between 1 and 2, between 3 and 4, and between 7 and 8. **The stability and accuracy of the output will deteriorate if the connector is removed. Always connect the +S and -S pins.**
Do not connect a load to the output voltage monitor terminals (+V, –V).

Recommendable replacement
Model S8JX-P series

<300W(5V,12V,24V) Model>



<600W(5V,12V,24V) Models>



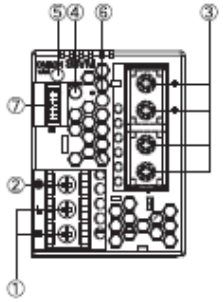
No.	Name	Function
1	Input Terminals (L), (N)	Connect the input lines to these terminals. ✻1
2	Protective Earth Terminal (PE) (⏚)	Connect the ground line to these terminals. ✻2
3	DC Output Terminals (–V), (+V)	Connect the load lines to these terminals.
4	Output Indicator (DC ON: Green)	Lights green while a direct current (DC) output is ON.
5	Output Voltage Adjuster (V. ADJ)	It is possible to increase or decrease the output voltage.
6	Alarm indicator (ALM: Red)	This lamp lights up at the time of output voltage deterioration or fan stoppage, and in standby mode by remote control function.
7	Signal output connector ✻3 11 12 9 10 7 8 5 6 3 4 1 2 CN 1/2	1: Output voltage monitor terminal (+V) 2: Remote sensing terminal (+S) 3: Output voltage monitor terminal (-V) 4: Remote sensing terminal (-S) 5: Current balance terminal (CB) 6: Current balance ground terminal (CBG) 7: Remote control terminal (+RC) 8: Remote control terminal (-RC) 9: (Not connected) 10: (Not connected) 11: Alarm detection output terminal (ALMC) (Collector side) 12: Alarm detection output terminal (ALME) (Emitter side)

✻**1.** The fuse is located on the (L) side. Ensure that the (L) side is set to (+).
✻**2.** This is a PE (Protective Earth) terminal defined in safety standards and must be grounded.
✻**3.** Signal input/output connectors are included as standard and implemented in the CN1 before shipment.
In this connector, the circuits of 1-2, 3-4, and 7-8 are shorted. Removal of the connector may deteriorate the output stability and accuracy, so be sure to perform the connection of +S and -S terminals.
Never connect a load to the output voltage monitor terminal (+V, -V).

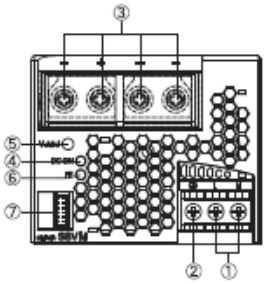
Terminal arrangement / Wire connection

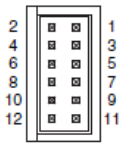
Product discontinuation Model S8VM series

<300W(15V) Model>



<600W(15V) Model>



No.	Name	Function
1	AC input terminals (L), (N)	Connect the input lines to these terminals. (See note 1.)
2	PE terminal: Protective earthing terminal (⏚) (S8VM-300□□C/S8VM-600□□C) FG terminal: Frame ground terminal (S8VM-15224C)	Connect the ground line to this terminal. (See note 2.)
3	DC output terminals (–V), (+V)	Connect the load lines to these terminals.
4	Output indicator (DC ON: Green)	Lights (green) while a direct current (DC) output is ON.
5	Output voltage adjuster (V.ADJ)	Use to adjust the voltage.
6	Power failure alarm indicator (PF: Red)	Lights when the output voltage decreases, the fan stops, and the system is on standby using the remote control function.
7	Signal I/O connector (See note 3.)  CN	1: DC output monitor pin (+V) 2: Remote sensing pin (+S) 3: DC output monitor pin (–V) 4: Remote sensing pin (–S) 5: Current balance pin (CB) 6: Signal ground pin for current balance (CBG) 7: Remote control pin (+RC) 8: Remote control pin (–RC) 9: No connect 10: No connect 11: Power failure alarm output pin (PF-C) (collector) 12: Power failure alarm output pin (PF-E) (emitter)

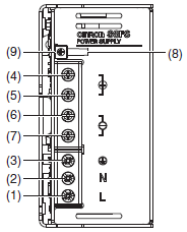
Note: 1. The fuse is located on the (L) side. It is NOT user-replaceable.

2. Protective earthing connection is the panel mounting hole of the metal case. (A protective earthing connection stipulated in safety standards is used. Connect the ground completely).
Ground terminal: M4 (Depth: 6 mm max.)/Ground wire: AWG 18

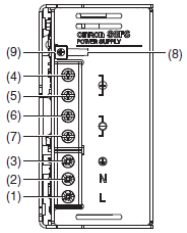
3. The standard supplied connector for signal I/O is mounted to CN when S8VM is shipped. The supplied signal I/O connector shorts between 1 and 2, between 3 and 4, and between 7 and 8. **The stability and accuracy of the output will deteriorate if the connector is removed. Always connect the +S and -S pins.**
Do not connect a load to the output voltage monitor terminals (+V, –V).

Recommendable replacement Model S8FS-G series

<300W(15V) Model>



<600W(15V) Model>

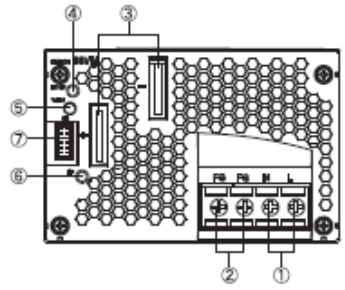


No.	Terminal name	Name	Function
(1)	L	Input terminals	Connect the input lines to these terminals. ✻1
(2)	N		
(3)	PE	Protective Earth terminal (⏚)	Connect the ground line to this terminal. ✻2
(4)	+V1	DC output terminals	Connect the load lines to these terminals.
(5)	+V2		
(6)	-V1		
(7)	-V2		
(8)	---	Output indicator (DC ON: green)	Lights while a direct current (DC) output is ON.
(9)	---	Output voltage adjuster (V.ADJ)	Use to adjust the voltage.
(10)	+RC	Remote control terminals	Wire for remote control.
(11)	-RC		
(12)	---	Parallel operation switch	To operate in parallel, set the switch to the "PARALLEL" side.

✻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.

Product discontinuation
Model S8VM series

<1500W(24V) Model>



No.	Name	Function
1	AC input terminals (L), (N)	Connect the input lines to these terminals. (See note 1.)
2	PE terminal: Protective earthing terminal (⏚) (S8VM-300□□C/S8VM-600□□C) FG terminal: Frame ground terminal (S8VM-15224C)	Connect the ground line to this terminal. (See note 2.)
3	DC output terminals (–V), (+V)	Connect the load lines to these terminals.
4	Output indicator (DC ON: Green)	Lights (green) while a direct current (DC) output is ON.
5	Output voltage adjuster (V.ADJ)	Use to adjust the voltage.
6	Power failure alarm indicator (PF: Red)	Lights when the output voltage decreases, the fan stops, and the system is on standby using the remote control function.
7	Signal I/O connector (See note 3.) 2 4 6 8 10 12 / 1 3 5 7 9 11 CN	1: DC output monitor pin (+V) 2: Remote sensing pin (+S) 3: DC output monitor pin (–V) 4: Remote sensing pin (–S) 5: Current balance pin (CB) 6: Signal ground pin for current balance (CBG) 7: Remote control pin (+RC) 8: Remote control pin (–RC) 9: No connect 10: No connect 11: Power failure alarm output pin (PF-C) (collector) 12: Power failure alarm output pin (PF-E) (emitter)

Note: 1. The fuse is located on the (L) side. It is NOT user-replaceable.

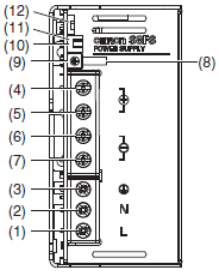
2. Protective earthing connection is the panel mounting hole of the metal case. (A protective earthing connection stipulated in safety standards is used. Connect the ground completely).
Ground terminal: M4 (Depth: 6 mm max.)/Ground wire: AWG 18

3. The standard supplied connector for signal I/O is mounted to CN when S8VM is shipped. The supplied signal I/O connector shorts between 1 and 2, between 3 and 4, and between 7 and 8. **The stability and accuracy of the output will deteriorate if the connector is removed. Always connect the +S and -S pins.**
Do not connect a load to the output voltage monitor terminals (+V, –V).

Recommendable replacement
Model S8FS-G series
(with parallel operation)

<600W(24V) Model (with parallel operation)>

*Use in parallel connection. (three Power Supplies)



No.	Terminal name	Name	Function
(1)	L	Input terminals	Connect the input lines to these terminals. ∗1
(2)	N		
(3)	PE	Protective Earth terminal (⏚)	Connect the ground line to this terminal. ∗2
(4)	+V1	DC output terminals	Connect the load lines to these terminals.
(5)	+V2		
(6)	-V1		
(7)	-V2		
(8)	---	Output indicator (DC ON: green)	Lights while a direct current (DC) output is ON.
(9)	---	Output voltage adjuster (V.ADJ)	Use to adjust the voltage.
(10)	+RC	Remote control terminals	Wire for remote control.
(11)	-RC		
(12)	---	Parallel operation switch	To operate in parallel, set the switch to the "PARALLEL" side.

∗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.

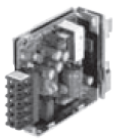
Dimensions / Mounting dimensions

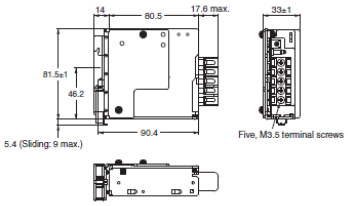
Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series

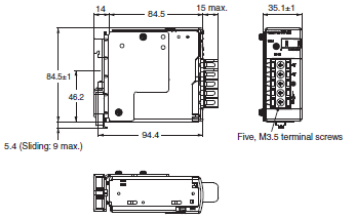
<15W Models>

DIN Rail mounting

S8VM-015□□D
S8VM-015□□CD
S8VM-01524AD

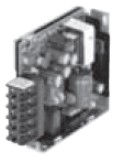


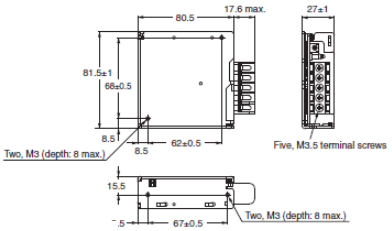


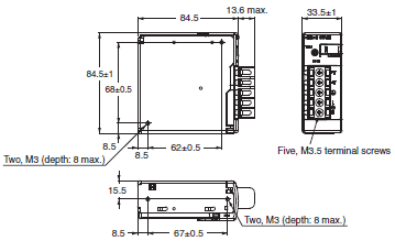


Bottom mounting

S8VM-015□□
S8VM-015□□C
S8VM-01524A

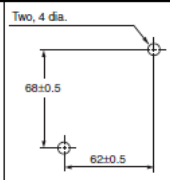
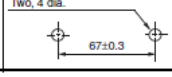






]

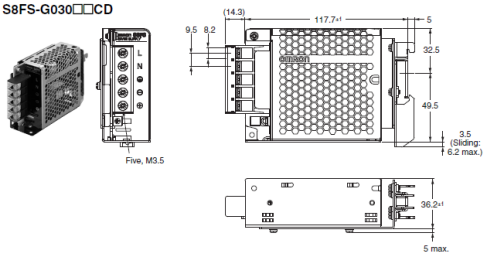
Mounting Holes

	Bottom View
Side Mounting	
Bottom Mounting	

<15W,30W Models>

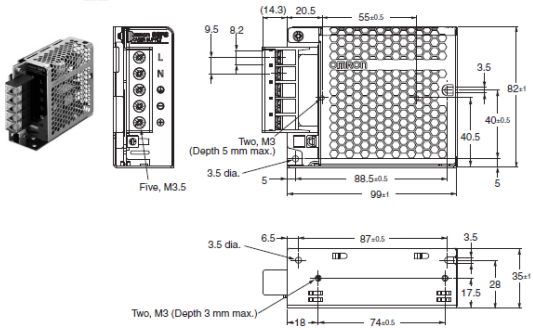
DIN Rail mounting

S8FS-G015□□CD
S8FS-G030□□CD

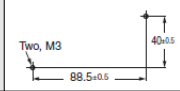
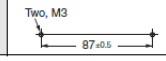


Bottom mounting

S8FS-G015□□C
S8FS-G030□□C

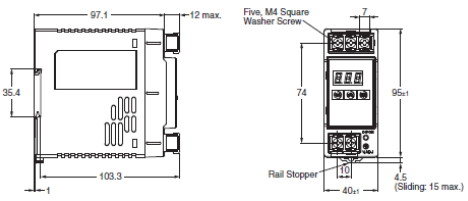


Panel mounting holes dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting		
Bottom Mounting		

<For Undervoltage Alarm Function model>

・Model S8VS series 60W Model (with Indication Monitor)

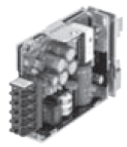


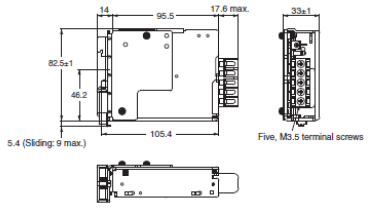
Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series

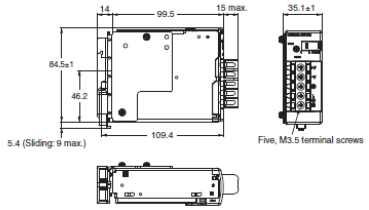
<30W Model>

DIN Rail mounting

S8VM-030□□D
S8VM-030□□CD
S8VM-03024AD

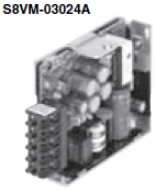


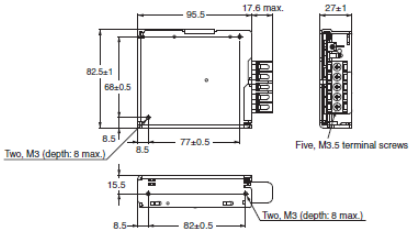


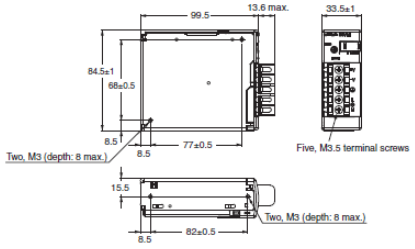


Bottom mounting

S8VM-030□□
S8VM-030□□C
S8VM-03024A







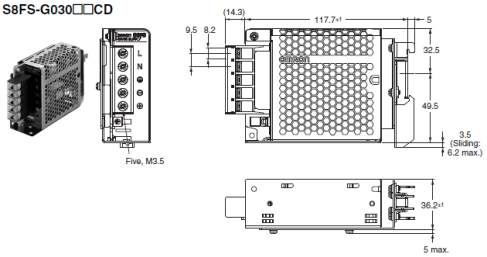
Mounting Holes

	Bottom View
Side Mounting	Two, 4 dia. 68±0.5 77±0.5
Bottom Mounting	Two, 4 dia. 82±0.3

<15W,30W Model>

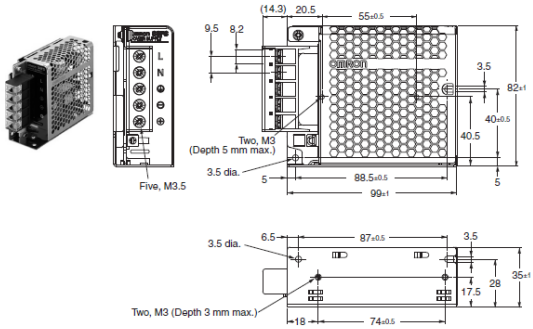
DIN Rail mounting

S8FS-G015□□CD
S8FS-G030□□CD



Bottom mounting

S8FS-G015□□C
S8FS-G030□□C

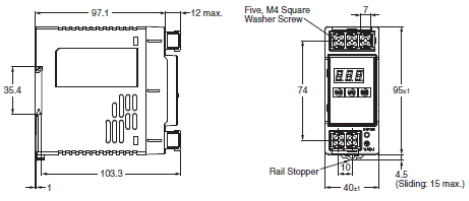


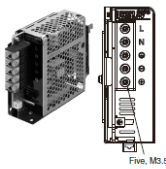
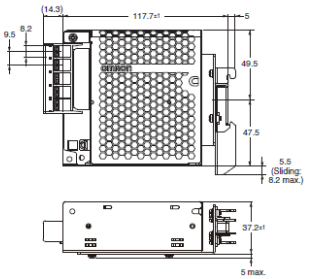
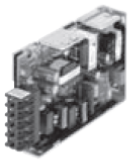
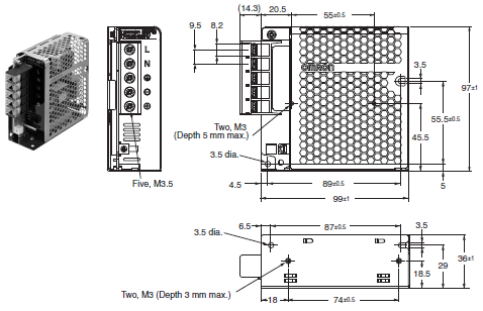
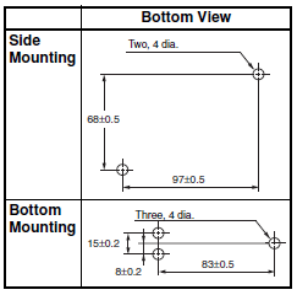
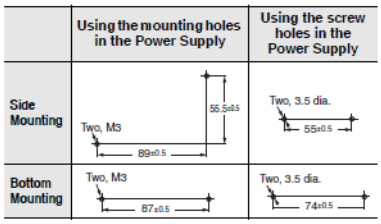
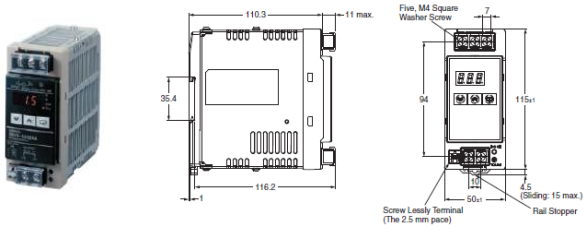
Panel mounting holes dimensions

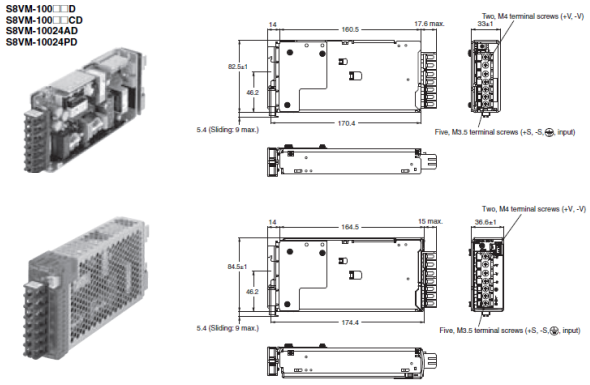
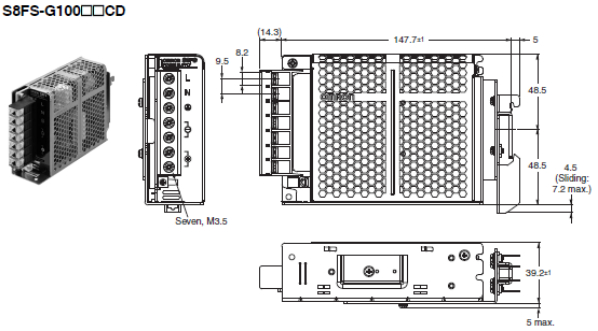
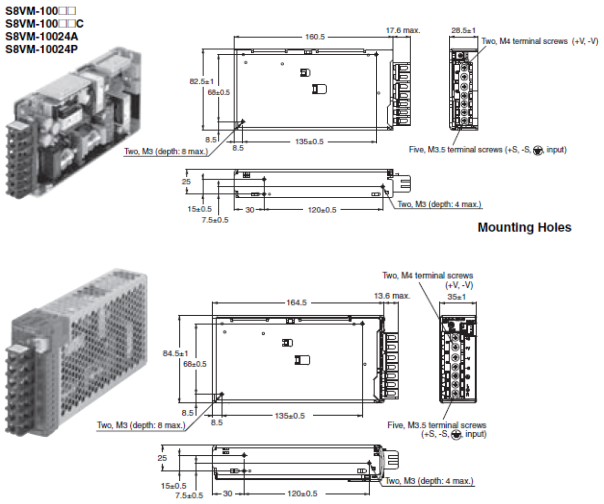
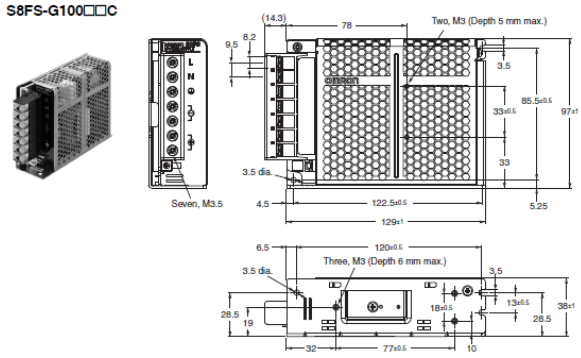
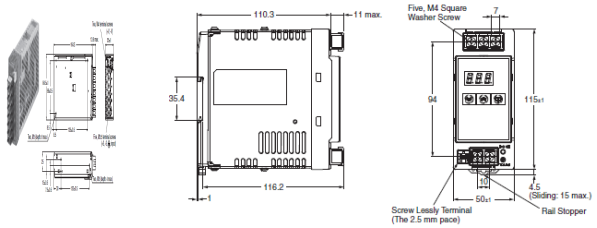
	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting	Two, M3 40±0.5 88.5±0.5	Two, 3.5 dia. 55±0.5
Bottom Mounting	Two, M3 87±0.5	Two, 3.5 dia. 74±0.5

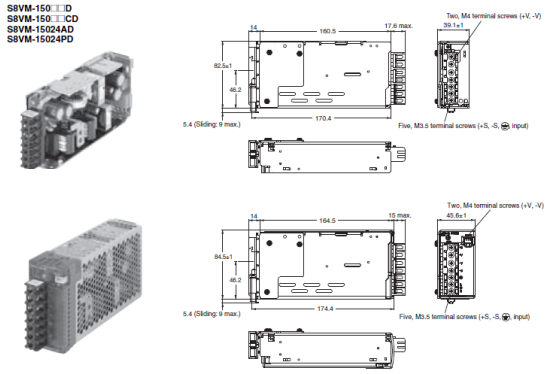
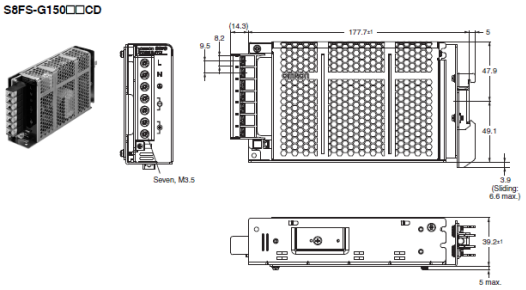
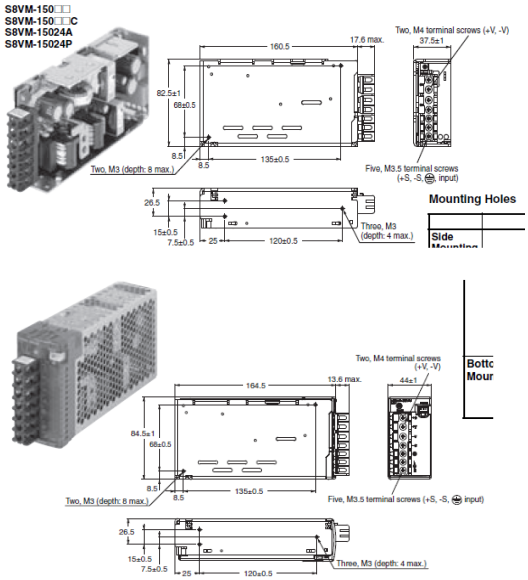
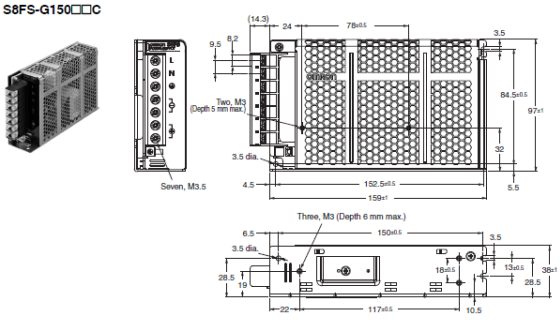
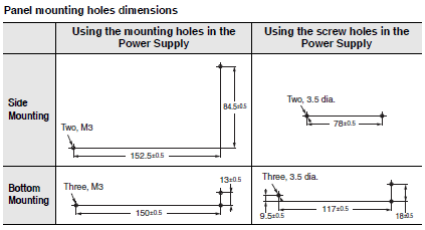
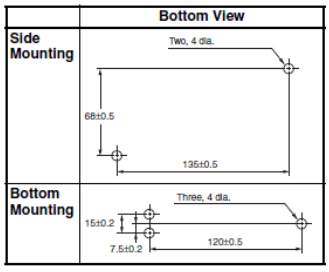
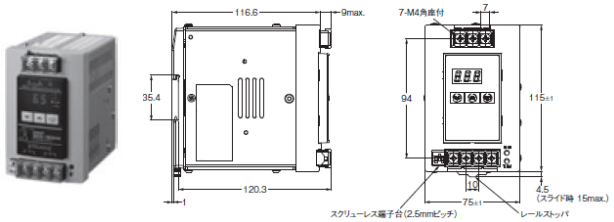
<For Undervoltage Alarm Function model>

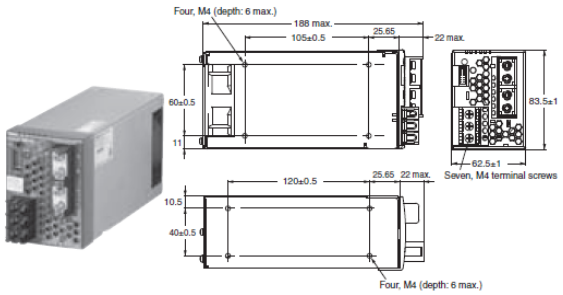
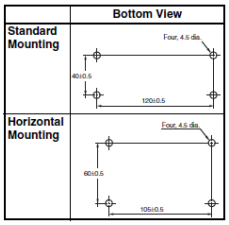
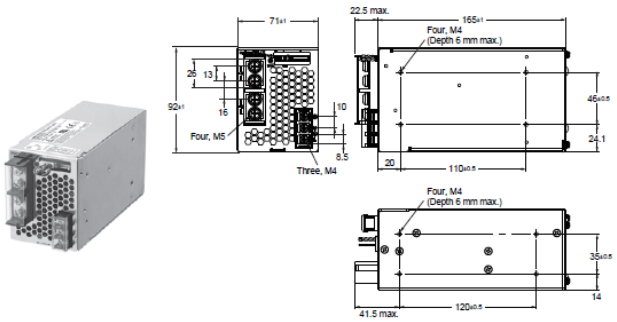
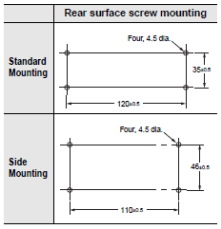
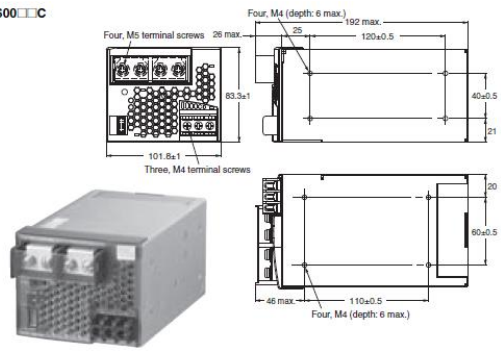
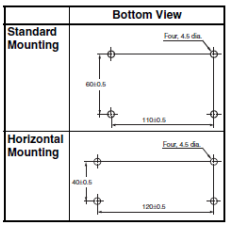
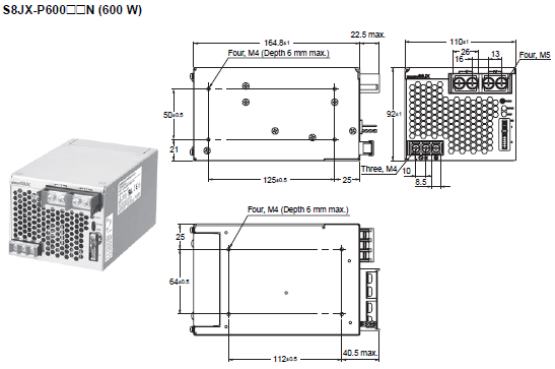
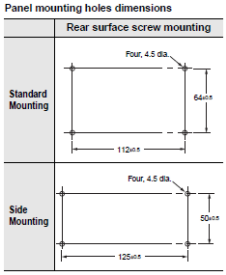
・Model S8VS series 60W Model (with Indication Monitor)

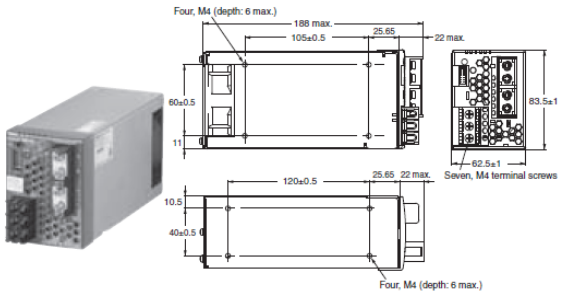
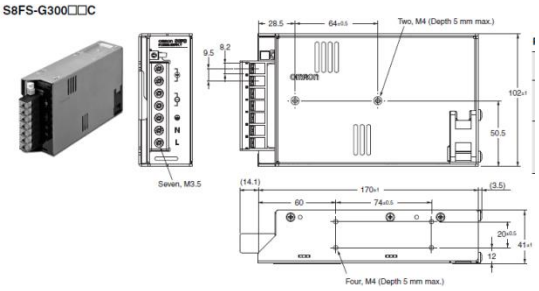
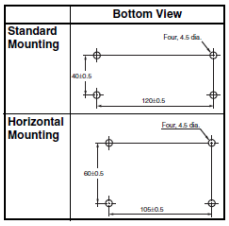
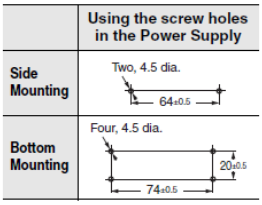
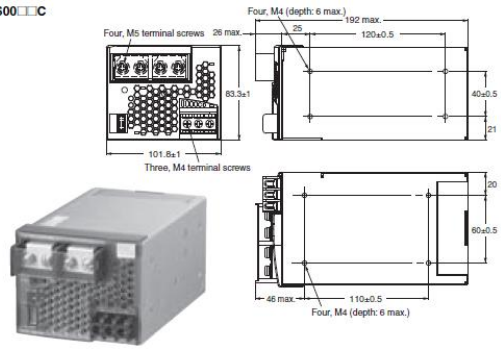
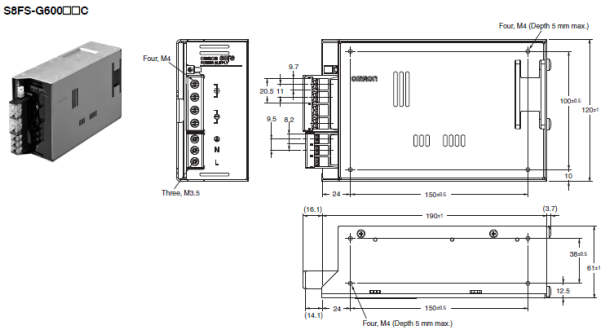
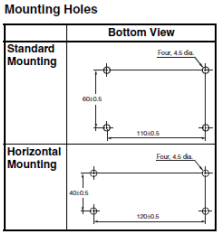
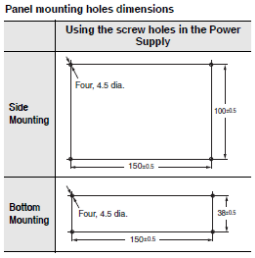


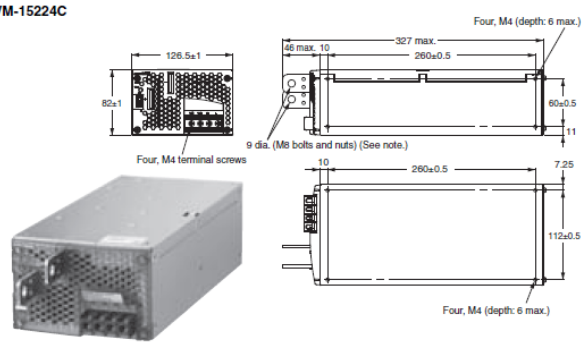
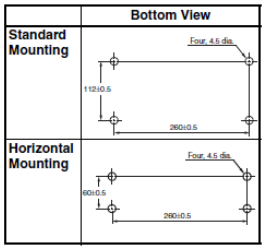
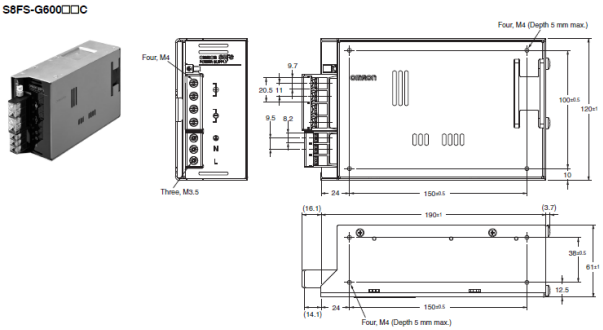
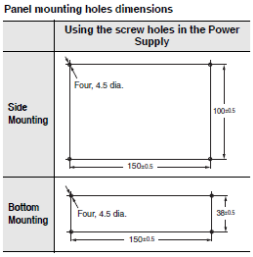
Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series
<50W Model> DIN Rail mounting	**<50W Model>** DIN Rail mounting
S8VM-050□□D **S8VM-050□□CD** **S8VM-05024AD** **S8VM-05024PD**	**S8FS-G050□□CD**
 	 
Bottom mounting	Bottom mounting
S8VM-050□□ **S8VM-050□□C** **S8VM-05024A** **S8VM-05024P**	**S8FS-G050□□C**
 	
Mounting Holes	**Panel mounting holes dimensions**
	
<For Undervoltage Alarm Function model> ・Model S8VS series 90W Model (with Indication Monitor)	
	

Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series
<100W Model> DIN Rail mounting	**<100W Model>** DIN Rail mounting
	
Bottom mounting	Bottom mounting
	
Mounting Holes Side Mounting: Two, 4 dia.; 68±0.5; 135±0.5 Bottom Mounting: Three, 4 dia.; 15±0.2; 7.5±0.2; 120±0.5	**Panel mounting holes dimensions** Side Mounting: Two, M3; 122.5±0.5; 85.5±0.5; Two, 3.5 dia.; 33±0.5 Bottom Mounting: Three, M3; 120±0.5; 13±0.5; Three, 3.5 dia.; 77±0.5; 9±0.5; 18±0.5
	<For Undervoltage Alarm Function model> ・Model S8VS series 120W Model (with Indication Monitor)
	

Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series
<150W Model> DIN Rail mounting	**<150W Model>** DIN Rail mounting
	
Bottom mounting	Bottom mounting
	
	
Mounting Holes 	For Undervoltage Alarm Function model> ・Model S8VS series 180W Model (with Indication Monitor) 

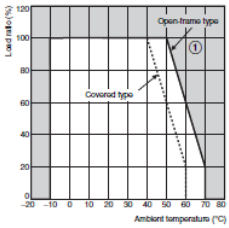
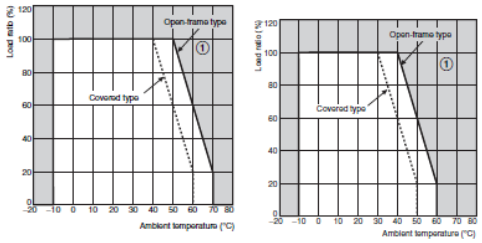
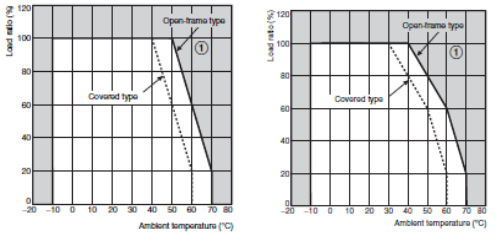
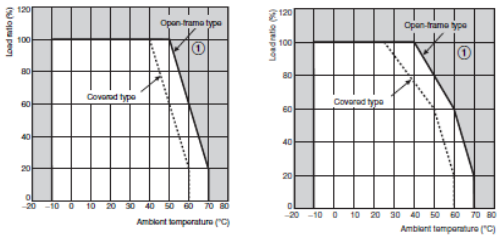
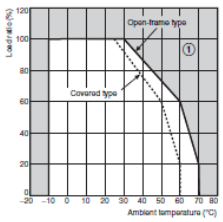
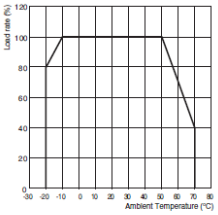
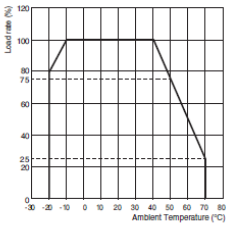
Product discontinuation Model S8VM series	Recommendable replacement Model S8JX-P series
<300W(5V,12V,24V) Model> Bottom mounting **S8VM-300□□C**  **Mounting Holes**  	**<300W(5V,12V,24V) Models>** Bottom mounting **S8JX-P300□□N (300 W)**  **Panel mounting holes dimensions** 
<600W(5V,12V,24V) Model> Bottom mounting **S8VM-600□□C**  **Mounting Holes**  	**<600W(5V,12V,24V) Model>** Bottom mounting **S8JX-P600□□N (600 W)**  **Panel mounting holes dimensions** 

Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series
<300W(15V) Model> Bottom mounting	**<300W(15V) Model>** Bottom mounting
S8VM-300□□C  	S8FS-G300□□C 
Mounting Holes  	Panel mounting holes dimensions 
<600W(15V) Model> Bottom mounting	**<600W(15V) Model>** Bottom mounting
S8VM-600□□C  	S8FS-G600□□C 
Mounting Holes  	Panel mounting holes dimensions 

Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series
<1500W(24V) Models> Bottom mounting **S8VM-15224C**  **Note:** M8 bolts and nuts for the output terminals are not included. **Mounting Holes**  	**<600W(24V) Model (with parallel operation)>** *Use in parallel connection. (three Power Supplies) Bottom mounting **S8FS-G600□□C**  **Panel mounting holes dimensions** 

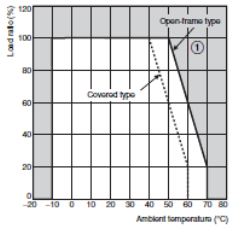
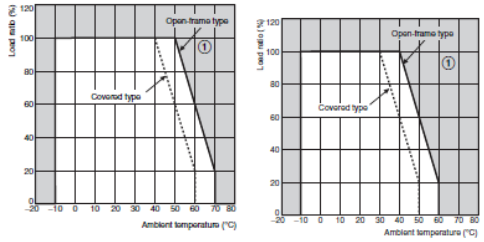
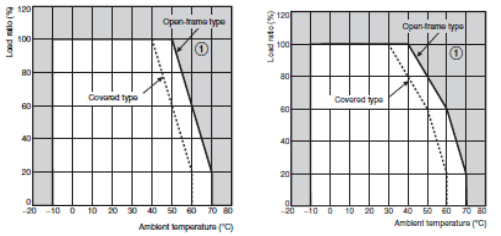
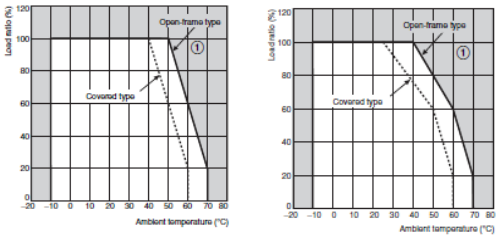
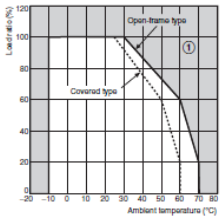
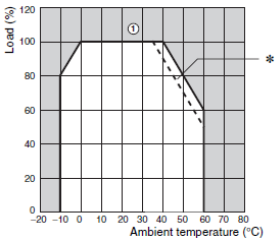
Characteristics

Item	Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series
Input voltage	15W,30W,50W,100W,150W Models 100 to 240VAC free input (85 to 265VAC)	15W,30W,50W,100W,150W Models 100 to 240VAC free input (85 to 264VAC,120 to 370VDC)
Input current	15W Model 0.5A max.(at 100VAC input) 0.25A max.(at 200VAC input) 30W Models 0.9A max.(at 100VAC input) 0.45A max.(at 200VAC input) 50W Models 0.8A max.(at 100VAC input) 0.4A max.(at 200VAC input) 100W Models 1.4A max.(at 100VAC input) 0.7A max.(at 200VAC input) 150W Models 2.0A max.(at 100VAC input) 1.0A max.(at 200VAC input)	15W Model 0.35A max.(at 100VAC input) 0.25A max.(at 200VAC input) 30W Models 0.8A max.(at 100VAC input) 0.5A max.(at 200VAC input) 50W Models 1.2A max.(at 100VAC input) 0.7A max.(at 200VAC input) 100W Models 2.3A max.(at 100VAC input) 1.2A max.(at 200VAC input) 150W Models 3.3A max.(at 100VAC input) 1.9A max.(at 200VAC input)
Inrush current	15W,30W,50W,100W,150W Models 17.5A max.(at 100VAC input) 35A max.(at 200VAC input) *for cold start at 25℃	15W,30W,50W,100W,150W Models 14A max.(at 100VAC input) 28A max.(at 200VAC input) *for cold start at 25℃
Startup time	15W,30W Models 1100ms max. 50W,100W,150W Models 800ms max.	15W,30W,50W,100W,150W Models 1000ms max.
Output hold time	15W,30W,50W,100W,150W Models 15ms min.	15W,30W,50W,100W,150W Models 8ms min.(at 100VAC input) 16ms min.(at 200VAC input)
Overload protection	15W,30W Models 105 to 160% of rated load current, voltage drop, intermittent, automatic reset 50W,100W,150W Model 105 to 160% of rated load current, voltage drop, intermittent (5V) voltage drop, (12V,15V,24V) automatic reset	15W,30W,50W,100W,150W Models 105 to 160% of rated load current, voltage drop, intermittent, automatic reset
Parallel operation	15W,30W,50W,100W,150W Models No	15W,30W,50W,100W,150W Models No
Cooling method	15W,30W,50W,100W,150W Models Natural cooling	15W,30W,50W,100W,150W Models Natural cooling

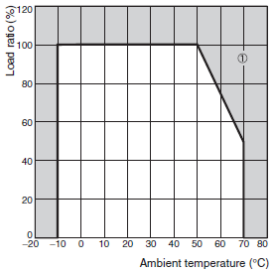
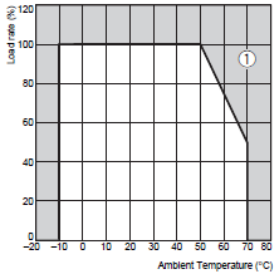
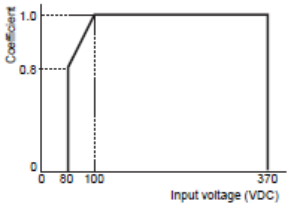
Item	Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series
Derating Curves	15W,30W Models **Standard Mounting/Horizontal Mounting**  50W Models **Standard Mounting/Horizontal Mounting** **Face-up Mounting**  100W Models **Standard Mounting** **Horizontal Mounting/Face-up Mounting**  150W Models **Standard Mounting** **Horizontal Mounting**  **Face-up Mounting**  	15W,30W,50W Models  **Note:** At less than 100 VAC, derate the load at 1.3%/V. 100W,150W Models  **Note:** At less than 100 VAC, derate the load at 1.3%/V.

Item	Product discontinuation Model S8VM series (Undervoltage Alarm Function)	Recommendable replacement Model S8VS series (with Indication Monitor)
Input voltage	15W,30W,50W,100W,150W Models 100 to 240VAC free input (85 to 265VAC)	60W,90W,120W,180W Models 100 to 240VAC free input (85 to 265VAC, 80 to 370 VDC)
Input current	15W Model 0.5A max.(at 100VAC input) 0.25A max.(at 200VAC input) 30W Models 0.9A max.(at 100VAC input) 0.45A max.(at 200VAC input) 50W Models 0.8A max.(at 100VAC input) 0.4A max.(at 200VAC input) 100W Models 1.4A max.(at 100VAC input) 0.7A max.(at 200VAC input) 150W Models 2.0A max.(at 100VAC input) 1.0A max.(at 200VAC input)	60W Model 1.7A max.(at 100VAC input) 1.0A max.(at 200VAC input) 90W Models 2.3A max.(at 100VAC input) 1.4A max.(at 200VAC input) 120W Models 1.9A max.(at 100VAC input) 1.1A max.(at 200VAC input) 180W Models 2.9A max.(at 100VAC input) 1.6A max.(at 200VAC input)
Inrush current	15W,30W,50W,100W,150W Models 17.5A max.(at 100VAC input) 35A max.(at 200VAC input) *for cold start at 25℃	60W,90W,120W,180W Models 17.5A typ. (at 100VAC input) 35A typ. (at 200VAC input) *for cold start at 25℃
Startup time	15W,30W Models 1100ms max. 50W,100W,150W Models 800ms max.	60W Models 460ms typ. (at 100VAC input) 290ms typ. (at 200VAC input) 90W Models 660ms typ. (at 100VAC input) 420ms typ. (at 200VAC input) 120W Models 650ms typ. (at 100VAC input) 520ms typ. (at 200VAC input) 180W Models 580ms typ. (at 100VAC input) 490ms typ. (at 200VAC input)
Output hold time	15W,30W,50W,100W,150W Models 15ms min.	60W Models 33ms typ. (at 100VAC input) 154ms typ. (at 200VAC input) 90W Models 28ms typ. (at 100VAC input) 136ms typ. (at 200VAC input) 120W Models 56ms typ. (at 100VAC input) 56ms typ. (at 200VAC input) 180W Models 70ms typ. (at 100VAC input) 700ms typ. (at 200VAC input)

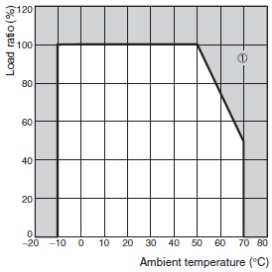
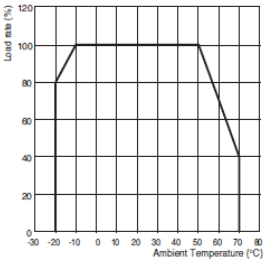
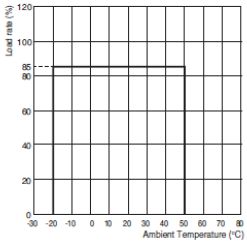
Item	Product discontinuation Model S8VM series (Undervoltage Alarm Function)	Recommendable replacement Model S8VS series (with Indication Monitor)
Overload protection	15W,30W Models 105 to 160% of rated load current, voltage drop, intermittent, automatic reset 50W,100W,150W Model 105 to 160% of rated load current, voltage drop, intermittent (5V) voltage drop, (12V,15V,24V) automatic reset	60W,90W Models 105 to 160% of rated load current, voltage drop, intermittent, automatic reset 120W,180W Models 105 to 160% of rated load current, voltage drop, automatic reset
Parallel operation	15W,30W,50W,100W,150W Models No	60W,90W,120W,180W Models No
Cooling method	15W,30W,50W,100W,150W Models Natural cooling	60W,90W,120W,180W Models Natural cooling

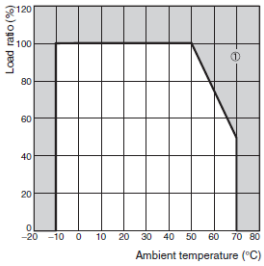
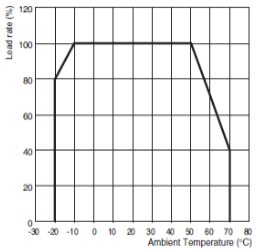
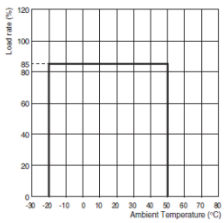
Item	Product discontinuation Model S8VM series (Undervoltage Alarm Function)	Recommendable replacement Model S8VS series (with Indication Monitor)
Derating Curves	15W,30W Models **Standard Mounting/Horizontal Mounting**  50W Models **Standard Mounting/Horizontal Mounting** **Face-up Mounting**  100W Models **Standard Mounting** **Horizontal Mounting/Face-up Mounting**  150W Models **Standard Mounting** **Horizontal Mounting**  **Face-up Mounting**  	60W,90W,120W,180W Models 

Item	Product discontinuation Model S8VM series	Recommendable replacement Model S8JX-P series
Input voltage	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 100 to 240VAC free input (85 to 265VAC)	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 100 to 240VAC free input (85 to 264VAC,120 to 370VDC)
Input current	300W(5V) Model 4.0A max.(at 100VAC input) 2.0A max.(at 200VAC input) 300W(12V,24V) Models 4.3A max.(at 100VAC input) 2.2A max.(at 200VAC input) 600W(5V) Models 8.0A max.(at 100VAC input) 4.0A max.(at 200VAC input) 600W(12V,24V) Models 8.3A max.(at 100VAC input) 4.2A max.(at 200VAC input)	300W(5V,12V,24V) Model 4.5A max.(at 100VAC input) 2.2A max.(at 200VAC input) 600W(5V,12V,24V) Models 8.7A max.(at 100VAC input) 4.3A max.(at 200VAC input)
Inrush current	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 20A max.(at 100VAC input) 40A max.(at 200VAC input) *for cold start at 25℃	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 17.5A typ.(at 100VAC input) 35A typ.(at 200VAC input) *for cold start at 25℃
Startup time	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 1000ms max.	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 1000ms max.
Output hold time	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 15ms min.	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 20ms min.
Overload protection	300W(5V,12V), 600W(5V,12V) Models 105 to 160% of rated load current, voltage drop, intermittent (5V) voltage drop, (12V,15V) automatic reset 300W(24V), 600W(24v) Models 120 to 160% (300W) 115 to 160% (600W) voltage drop, automatic reset	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 105 to 160% of rated load current, voltage drop, intermittent, automatic reset
Parallel operation	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models Yes (up to 2 units)	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models Yes (up to 5 units)
Cooling method	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models Forced-air cooling by a built-in fan	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models Forced-air cooling by a built-in fan

Item	Product discontinuation Model S8VM series	Recommendable replacement Model S8JX-P series
Derating Curves	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models 	300W(5V,12V,24V) Models 600W(5V,12V,24V) Models  **Note:** (For Customers using 300-/600-W type for a DC Input) Reduce the load calculated with the above derating curve by at least the following coefficients. 

Item	Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series
Input voltage	300W(15V), 600W(15V) Models 100 to 240VAC free input (85 to 265VAC)	300W(15V) Model 100 to 240VAC free input (85 to 264VAC,120 to 370VDC) 600W(15V) Models 100 to 240VAC free input (85 to 264VAC,120 to 350VDC)
Input current	300W(15V) Model 4.0A max.(at 100VAC input) 2.0A max.(at 200VAC input) 600W(15V) Model 8.0A max.(at 100VAC input) 4.0A max.(at 200VAC input)	300W(15V) Model 4.2A max.(at 100VAC input) 2.1A max.(at 200VAC input) 600W(5V,12V,24V) Model 7.7A max.(at 100VAC input) 3.8A max.(at 200VAC input)
Inrush current	300W(15V), 600W(15V) Models 20A max.(at 100VAC input) 40A max.(at 200VAC input) *for cold start at 25℃	300W(15V), 600W(15V) Models 14A typ.(at 100VAC input) 28A typ.(at 200VAC input) *for cold start at 25℃
Startup time	300W(15V), 600W(15V) Models 1000ms max.	300W(15V), 600W(15V) Models 1000ms max.

Item	Product discontinuation Model S8VM series	Recommendable replacement Model S8FS-G series
Output hold time	300W(15V), 600W(15V) Models 15ms min.	300W(15VV) Model 30ms typ.(at 100VAC input) 25ms typ.(at 200VAC input) 600W(15V) Model 25ms typ.
Overload protection	300W(15V), 600W(15V) Models 105 to 160% of rated load current, voltage drop, automatic reset	300W(15V) Model 105 to 160% of rated load current, voltage drop, intermittent, automatic reset 600W(15V Model 105 to 160% of rated load current, voltage drop, automatic reset
Parallel operation	300W(15V), 600W(15V) Models Yes (up to 2 units)	300W(15V) Models No 600W(15V) Models Yes (up to 5 units) (with parallel operation)
Cooling method	300W(15V), 600W(15V) Models Forced-air cooling by a built-in fan	300W(15V), 600W(15V) Models Forced-air cooling by a built-in fan
Derating Curves	300W(15V), 600W(15V) Models 	300W(15V), 600W(15V) Models  **Note:** At less than 100 VAC, derate the load at 1.3%/V. **Parallel Operation** For Models with Parallel Operation Option  **Note:** At less than 100 VAC, derate the load at 1.3%/V.

Item	Product discontinuation Model S8VM series <1500W(24V) Model>	Recommendable replacement Model S8FS-G series <600W(24V) Model> *Use in parallel connection. (three Power Supplies)
Input voltage	100 to 240VAC free input (85 to 265VAC)	100 to 240VAC free input (85 to 264VAC,120 to 350VDC)
Input current	20.0A max.(at 100VAC input) 11.0A max.(at 200VAC input)	7.7A max.(at 100VAC input) 3.8A max.(at 200VAC input)
Inrush current	20A max.(at 100VAC input) 40A max.(at 200VAC input) *for cold start at 25℃	14A max.(at 100VAC input) 28A max.(at 200VAC input) *for cold start at 25℃
Startup time	1000ms max.	1000ms max.
Output hold time	20ms typ. (15ms min.)	30ms typ.
Overload protection	100VAC 105 to 160% of rated load current, voltage drop, intermittent, automatic reset 200VAC 155 to 200% of rated load current, voltage drop, intermittent, automatic reset	105 to 160% of rated load current, voltage drop, automatic reset
Parallel operation	Yes (up to 2 units)	Yes (up to 5 units)
Cooling method	Forced-air cooling by a built-in fan	Forced-air cooling by a built-in fan
Derating Curves		 **Note:** At less than 100 VAC, derate the load at 1.3%/V. **Parallel Operation** For Models with Parallel Operation Option  **Note:** At less than 100 VAC, derate the load at 1.3%/V.

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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.