OMRON

PRODUCT NEWS

Product Discontinuation Notices

Issue Date
December 1, 2025

Product Discontinuation	Recommended Replacement
Power Supplies **S8AS series**	Power Supplies **S8AS2 series**
Terminal cover **S82Y-AS-C1P**	**Not required for the S8AS2 series.**

[Final order entry date]

The end of December, 2026

[Date of The Last Shipping]

The end of March, 2027

[Caution on recommended replacement]

- The output terminal block will be changed from a detachable terminal block to a push-in terminal block, making it impossible to remove while wired.
- The input terminal block will be changed from a screw terminal block to a push-in terminal block.
- Models with communication functions (RS-485) are not included in the lineup.
- Various operation methods will be changed.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
S8AS2 series	--	--	--	*	*	**	--

** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

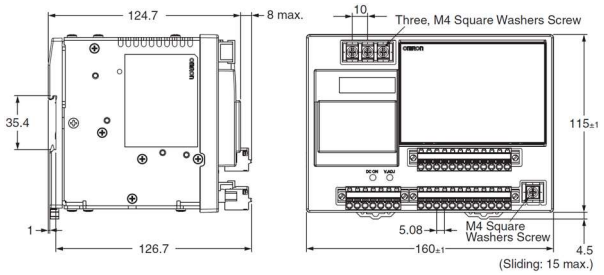
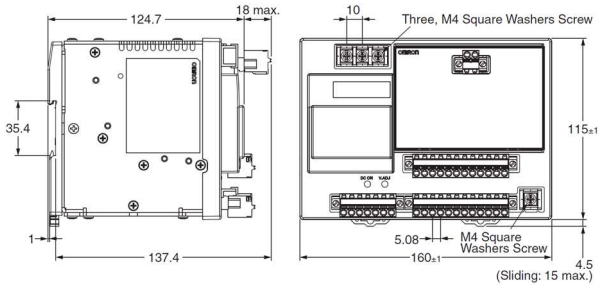
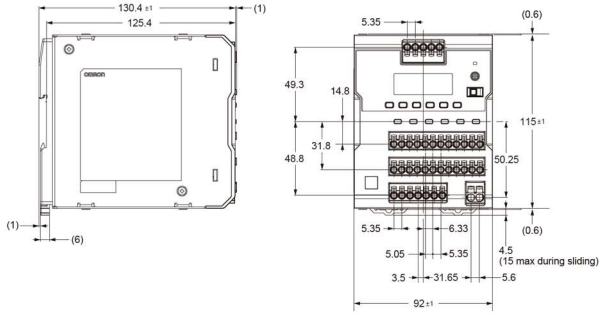
[Product Discontinuation and recommended replacement]

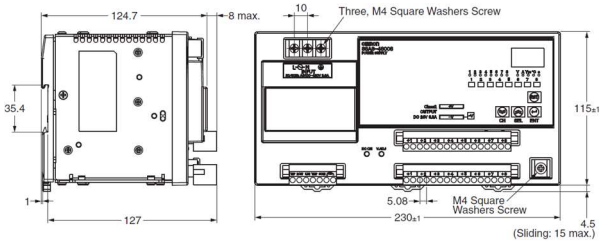
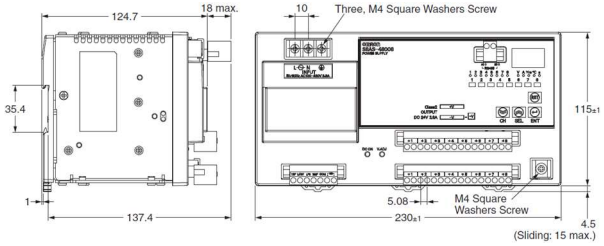
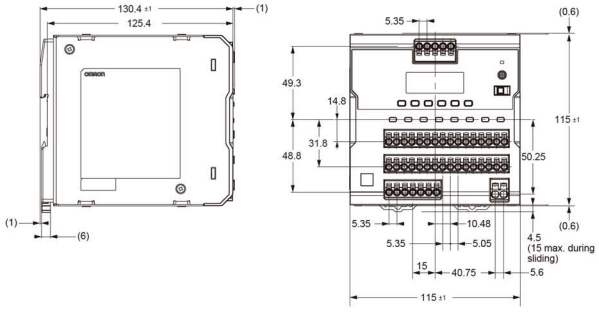
Product discontinuation	Recommended replacement
S8AS-24006	S8AS2-24024-06S
S8AS-24006N	S8AS2-24024-06SN
S8AS-24006R	S8AS2-24024-06S
S8AS-48008	S8AS2-48024-08S
S8AS-48008N	S8AS2-48024-08SN
S8AS-48008R	S8AS2-48024-08S
S82Y-AS-C1P	Not required for the S8AS2 series (The terminal cover is not necessary for Push-in terminal blocks).

[Body color]

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
Case Monitor cover: BLACK Front case： LIGHT GRAY Rear case：SILVER 	**Case** BLACK 

[Dimensions]

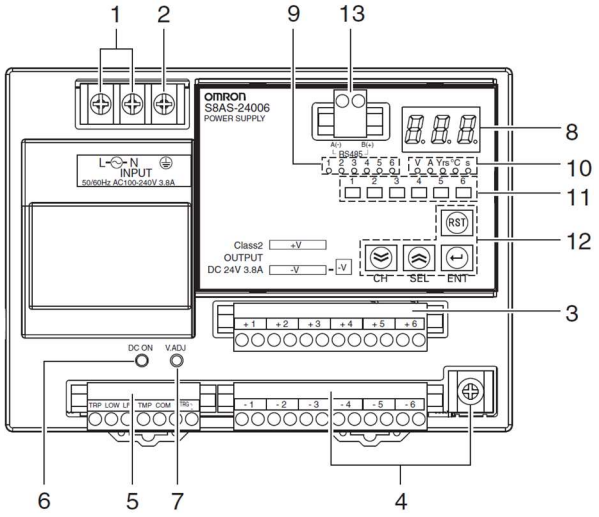
Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
S8AS-24006 **S8AS-24006N**  **S8AS-24006R**  	**S8AS2-24024-06S** **S8AS2-24024-06SN** 

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
S8AS-48008 **S8AS-48008N**  **S8AS-48008R**  	**S8AS2-48024-08S** **S8AS2-48024-08SN** 

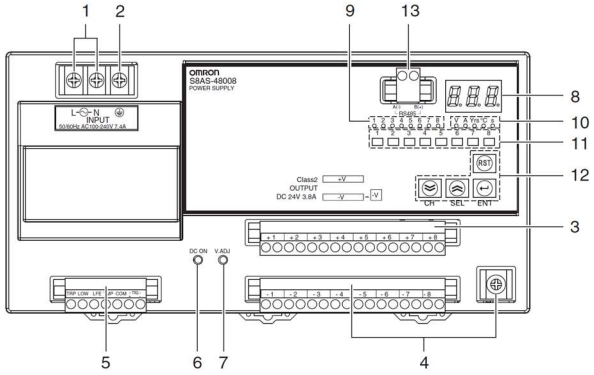
[Wire connection]

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series

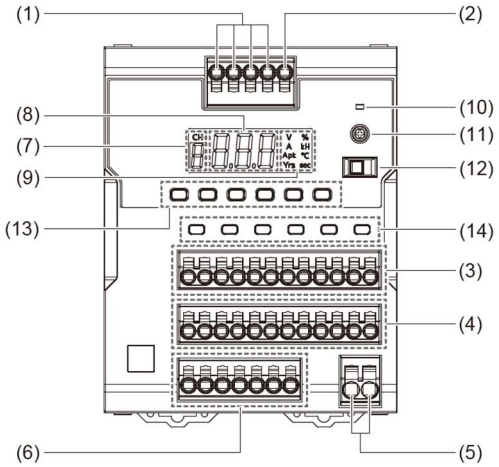
S8AS-24006☐



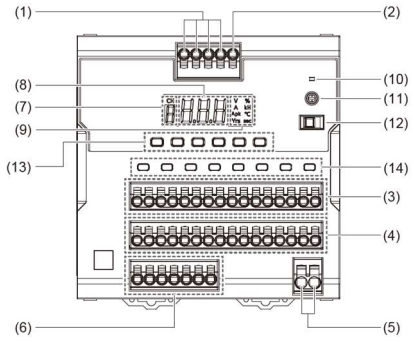
S8AS-48008☐



S8AS2-24024-06☐

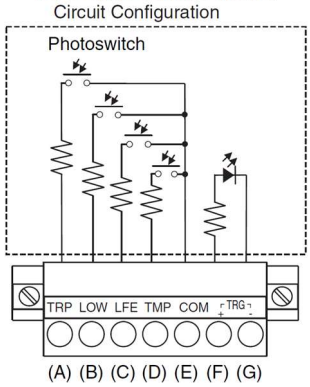


S8AS2-48024-08☐



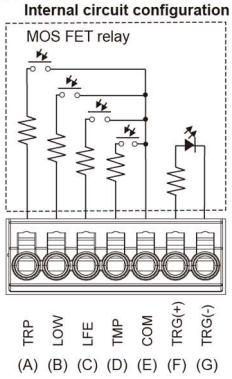
Common to all models

5. I/O Signal Terminal Internal Circuit Configuration

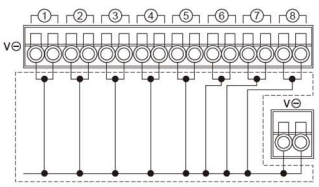


Common to all models

(6) I/O signal terminals
Internal circuit configuration



(4) Branch output terminal (-), (5) Common output terminals (-)
Internal circuit configuration



Product discontinuation
Model S8AS series

No.	Name			Functions
1	AC Input Terminals (L and N)			Connects the input power supply (100 to 240 VAC, 50/60 Hz) (commercial power supply). ✻1
2	Protective Earth (PE) Terminal (⏚)			Connects to the ground wire. ✻2
3	Positive Branch Output Terminals (+)			Screwless terminals with 2-pole terminals for each branch output.
4	Negative Branch Output Terminals (–)			Screwless terminals with 2-pole terminals for each branch output and screw terminal shared by the negative branch output terminals.
5	I/O Signal Terminals	(A)	Tripping Alarm Output (TRP) ✻3	Turns ON to indicate when an abnormal voltage or current was detected and the output was cut off. (The photoswitch output will turn OFF.)
		(B)	Undervoltage Detection Output (LOW)	Turns ON to indicate when the 24-VDC output voltage of the S8AS falls below the threshold due to decrease in input voltage or other factors. (The photoswitch output will turn OFF.)
		(C)	Maintenance Forecast Monitor Output (LFE)	Turns OFF to indicate when the number of years to the set replacement time has been reached. (The photoswitch output will turn OFF.)
		(D)	Over-temperature Output (TMP)	Turns ON to indicate that the temperature exceeded the over-temperature output threshold. (The photoswitch output will turn OFF.)
		(E)	Negative Common Terminal (COM) (no polarity)	Negative common shared by the four alarm outputs ((A) to (D)) above.
		(F)	Positive External Tripping Input (TRG+)	Can be used to send an input signal from an external device to cut off a branch output. ✻4
		(G)	Negative External Tripping Input (TRG–)	
6	Output Indicator (DC ON (Green))			Indicates whether there is output voltage supplied.
7	Output Voltage Adjuster (V.ADJ)			Adjusts the output voltage.
8	Seven-segment Display (Red)			Displays measured values or set values.
9	Branch Output Indicators (Orange)			Light or flash when there is a display related to branch output (outputs 1 to 6 and 8). ✻5
10	Unit Indicators (Orange)			Light or flash when there is a unit (e.g., V, A, Yrs, °C, s) related to the value shown on the 7-segment display.
11	Status indicators (Red/Green)			Indicate the status of the branch outputs: Cutoff: red, Connected: green. ✻6
12	Operation Keys	Reset (RST) Key		Used to clear the error status when a branch output was cut off by an error or there was an alarm output.
		Enter (ENT) Key		Used to switch the display item, enter or execute settings, etc.
		Up (SEL) Key		Used to change the display item forward or to increase a set value.
		Down (CH) Key		Used to switch the branch output or to decrease a set value.The branch output number that is set remains the same in other modes.
13	Communications Terminals (A (–), B (+)) (Only for Models That Support Communications)			Used to connect to the RS-485 communications line.

Recommended Wire Diameter

Terminals	Name	Recommended wire diameter	Wire type	Torque	Wire stripping length
Screw terminals	AC input terminals and protective earth (PE) terminal	AWG14 to 16 (cross-sectional area of 0.823 to 2.081 mm^2)	Solid or stranded	9.6 in.lb. (1.08 N·m)	8 to 10 mm
	Branch output terminals (–), UL Standard	AWG12 to 14 (cross-sectional area of 2.081 to 3.309 mm^2)	Solid or stranded	12 in.lb. (1.36 N·m)	8 to 10 mm
	Branch output terminals (–), CSA Standard	AWG12 to 20 (cross-sectional area of 0.517 to 3.309 mm^2)	Solid or stranded	8.8 in.lb. (1.0 N·m)	8 to 10 mm
Screwless terminals	Branch output positive terminals, branch output negative terminals, I/O signal terminals, and communications terminals	AWG12 to 24 (cross-sectional area of 0.2 to 2.5 mm^2)	Solid or stranded	---	10 mm

Recommendable replacement
Model S8AS2 series

No.	Name			Functions
(1)	Input terminals (L), (N)			Connect the input power supply (100 to 240 VAC 50/60 Hz (commercial power supply)).
(2)	PE (Protective Earth) Terminal ⏚			Connect the ground wire. ✻1
(3)	Branch output terminal (+)			Push-in terminals with two-pole terminals per one Branch output.
(4)	Branch output terminal (-)			Push-in terminal with two-pole terminals per one Branch output.
(5)	Common output terminals (-)			Common push-in terminal for the (-) pole of each Branch output. For safety assurance, it is recommended to use this terminal when supporting PELV Outputs.
(6)	I/O signal terminals	(A)	Tripping Alarm Output (TRP)	Abnormal voltage and abnormal current are detected, and Outputs when a Tripping Operation occurs. (MOS FET Relay OFF)
		(B)	Undervoltage Detection Output (LOW)	Outputs when the 24 VDC Output voltage falls below the threshold value due to factors such as a drop in input voltage. (MOSFET Relay OFF)
		(C)	Maintenance Forecast Monitor Output (LFE)	Outputs when the remaining years of the set replacement period are reached. (MOS FET Relay OFF)
		(D)	Over-temperature Output (TMP)	Outputs when the Temperature exceeds the threshold value. (MOS FET Relay OFF)
		(E)	Common terminal (COM) (None polarity)	Common terminals for the above four Outputs
		(F)	External Tripping Input + (TRG+)	It is possible to interrupt the branching circuit by an external input signal. ✻4
		(G)	External Tripping Input - (TRG-)	
(7)	Branch output number LED (Green)			Displays the currently selected Branch output channel. ✻2
(8)	7-segment LED (White)			Displays measured values or Set value.
(9)	Unit indicator LED (Orange)			Lights up when the unit is related to the value displayed on the 7-segth LED (V, A, Apk, Yrs,%, kH, °C, sec).
(10)	Output indicator (DC ON (Green))			Indicates whether the Output voltage is being supplied or not.
(11)	Output voltage adjuster (V.ADJ)			Adjusts the Output voltage.
(12)	Mode switching SW			Switch between Monitor Mode and Setting Mode.
(13)	Operation keys	Channel Down Key		Indicates the switch for the Branch output.
		Channel Up Key		
		Selection Down Key		Used to change the display item forward or to decrease a set value.
		Selection Up Key		Used to change the display item backward or to increase a set value.
		Enter Key		Used to switch the display item, enter or execute settings, etc.
		Cancel (ESC)/ Reset (RST) key		Switch the display Item, cancel, and when an abnormal Tripping Operation or alarm Outputs is operating, clear the abnormal Bit status.
(14)	Channel selection key			The indicator lights display the connection/disconnection Bit status of each Branch output. Tripping/Red, Connect/Green ✻3 The pushbutton switch switches the connection/disconnection of each Branch output.

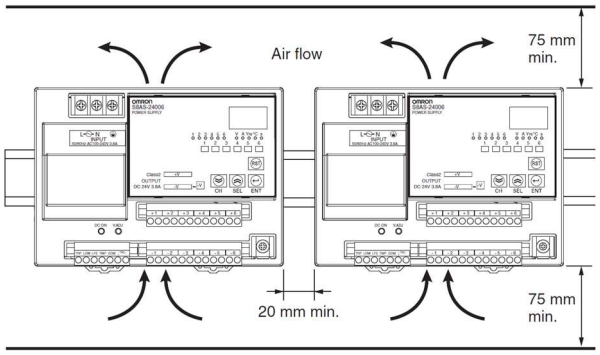
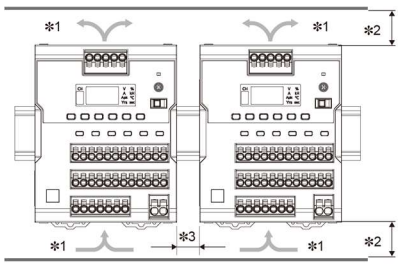
Recommended Wire Diameter

Terminals	Recommended Wire		
	Model	(mm^2)	(AWG)
Input terminals	S8AS2-24024-06□	0.5 to 2.5	20 to 14
	S8AS2-48024-08□	0.75 to 2.5	18 to 14
PE (Protective Earth) terminal	S8AS2-□□-□□	2 to 2.5	14
Branch output terminal (+) Branch output terminal (-)	S8AS2-□□-□□	0.5 to 2.5	20 to 14
Common output terminals (-)	S8AS2-24024-06□	2 to 4	14 to12
	S8AS2-48024-08□	4	12
I/O signal terminals	S8AS2-□□-□□	0.25 to 4	24 to 12

Stripping length

Terminals	Recommended Wire	Ferrule length	Recommended Stripping length	
			When using Ferrule	When Ferrule not used.
Other than the Common output terminals (negative)	0.25 to 1.5 mm^2/ AWG24 to 16	8 mm	10 mm	8 mm
		10 mm	12 mm	10 mm
	2 to 2.5 mm^2/ AWG14	10 mm	12 mm	10 mm
Common output terminals (-)	2 to 2.5 mm^2/ AWG14	10 mm	12 mm	12 mm
	4 mm^2/AWG12	12 mm	14 mm	12 mm

[Mounting dimensions]

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
	 ***1.** Air convection ***2.** Vertical separation: 25 mm or more ***3.** Horizontal separation: 15 mm or more (Standard mounting)

[Characteristics]

Item			Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
			S8AS-24006 / S8AS-24006R	S8AS2-24024-06S
Efficiency (typ.)			80% min.	93% typ.(100VAC) 95% typ.(200VAC)
Input conditions	Voltage range		100 to 240VAC (85 to 264VAC)	←
	Frequency		50/60Hz (47 to 63Hz)	←
	Current		3.8A max.(100VAC) 2.0A max.(200VAC)	2.6A typ.(100VAC) 1.2A typ.(200VAC)
	Power factor		0.95 min.	0.9 min.
	Harmonic current		EN61000-3-2	←
	Leakage current		0.5mA max.(100VAC) 1.0mA max.(200VAC)	←
	Inrush current		25A max.(100VAC) 50A max.(200VAC)	14A typ.(100VAC) 28A typ.(200VAC)
Output conditions	Number of branches		6	←
	Max cutoff output current		3.8A	←
	Total output current		10A	←
	Allowable voltage range		±10% (with V.ADJ)	24 to 28V
	Ripple noise voltage		480mV max.	80mV max. (at 20MHz of bandwidth)
	Output leakage current		10mA max.	←
	Input fluctuation		0.5% max.	←
	Load fluctuation		4.0% max.	←
	Temperature fluctuation		0.05%/℃ max.	←
	Startup time		3,000ms max.	1,000ms max.
	Output hold time		20ms min.	30ms typ.
Functions	Tripping functions	Abnormal voltage tripping	28.8V(cannot be changed)	26.0 to 32.0V(in 0.1V increments)
		Abnormal current tripping	0.5 to 3.8A (in 0.1A increments)	←
		Abnormal total current tripping	More than 17A for 2s, 15A for 5s, 13A for 10s, 12A for 20s	←
		Tripping alarm output	Photo-switch output	←
	Undervoltage detection functions	Undervoltage detection	18.0 to 26.4V (in 0.1V increments)	←
		Undervoltage detection output	Photo-switch output	←

Item			Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
			S8AS-24006 / S8AS-24006R	S8AS2-24024-06S
Functions	Maintenance forecast monitor function	Maintenance forecast monitor	0.0 to 5.0year (in 0.5year increments)	0.0 to 5.0year (in 0.1year increments)
		Percentage up to replacement time	-	0.0 to 99.9% (in 0.1% increments)
		Total running time	-	0 to 132kHour (in 1kHour increments)
		Maintenance forecast monitor output	Photo-switch output	←
	Over temperature detection function	Over temperature	25 to 90℃ (in 1℃ increments)	25 to 100℃ (in 1℃ increments)
		Over temperature output	Photo-switch output	←
	Display functions	Output voltage display	17.0 to 30.0V	16.3 to 32.0V
		Output current display	Branch output: 0.0 to 4.0A Peak output: 0.0 to 20.0A Total current: 0.0 to 40.0A	Branch output: 0.0～20.0A Peak output: 0.0～20.0A Total current: 0.0～60.0A
		Maintenance forecast monitor display	FUL(Full) / HLF (Half) / 0.0 to 5.0year	FUL(Full) / HLF (Half) / 0.0 to 4.9year
		Temperature display	-20 to +100℃	-20 to +120℃
	External Tripping Input		The input can be enabled or disabled for each branch output	←
	Startup sequence		0.0 to 99.9s (in 0.1s increments)	←
	Shutdown sequence		0.0 to 99.9s (in 0.1s increments)	←
	Communications		RS-485 (only R type)	Not supported
	Parallel connection		Not supported	←
	Series connection		Not supported	←
Others	Ambient operation temperature		-10 to +60℃	-25 to +70℃
	Storage temperature		-25 to +65℃	-40 to +85℃
	Ambient operating humidity		25 to 85% (storage: 25 to 90%)	95% max. (storage: 95% max.)

Item		Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
		S8AS-24006 / S8AS-24006R	**S8AS2-24024-06S**
Others	**Withstand voltage**	3.0kVAC 1min between all input terminals collectively and all branch output, all I/O signal, and all communications terminals collectively 2.0kVAC 1min between all inputs and protective earth 1.0kVAC 1min between protective earth and all branch output, all I/O signal, and all communications terminals collectively 500VAC 1min between all branch output and all I/O signal/communications terminals collectively 500VAC 1min between all I/O signal terminals collectively and communications terminals collectively 500VAC 1min between all I/O signal terminals collectively and all output signal terminals collectively (detection current: 20mA)	3.0kVAC for 1 min between all input terminals collectively and all branch output terminals, all I/O signal terminals collectively 2.0kVAC for 1 min between all input terminals collectively and protective earth 500VAC for 1 min between all branch output terminals and all I/O signal terminals collectively 500VAC for 1 min between all output signals and all input signals collectively (detection current: 20mA) 1.0kVAC for 1 min between protective earth and all branch output terminals, all I/O signal terminals collectively (detection current: 30mA)
	Insulation resistance	100MΩ min. at 500VDC	←
	Vibration resistance	10 to 55Hz at 0.375mm single amplitude for 2h each in 3 directions	←
	Shock resistance	150m/s^2 3 times each in 6 directions	←
	Output indicator	Provided (Color: green)	←
	Conducted EMI	Conforms to EN 61204-3 ClassA	Conforms to EN 61204-3 ClassB
	Radiated EMI	Conforms to EN 61204-3 ClassA	Conforms to EN 61204-3 ClassB
	Safety standards	UL 508 (Listing, Class2) CSA C22.2 No.107.1 (Class2) EN 62477-1	UL 508 (Listing, Class2) CSA C22.2 No.107.1 (Class2) EN/IEC 62477-1 Conforms EN/IEC 61558-2-16 RCM (EN61000-6-4)
	SEMI standard	SEMI F47-0706 (200VAC)	SEMI F47-0706 (200 to 240VAC)
	Weight	1,600g max.	1,050g max.

Item			Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
			S8AS-24006N	S8AS2-24024-06SN
Efficiency (typ.)			80% min.	93% typ.(100VAC) 95% typ.(200VAC)
Input conditions	Voltage range		100 to 240VAC (85 to 264VAC)	←
	Frequency		50/60Hz (47 to 63Hz)	←
	Current		3.8A max.(100VAC) 2.0A max.(200VAC)	2.6A typ.(100VAC) 1.2A typ.(200VAC)
	Power factor		0.95 min.	0.9 min.
	Harmonic current		EN61000-3-2	←
	Leakage current		0.5mA max.(100VAC) 1.0mA max.(200VAC)	←
	Inrush current		25A max.(100VAC) 50A max.(200VAC)	14A typ.(100VAC) 28A typ.(200VAC)
Output conditions	Number of branches		6	←
	Max cutoff output current		3.8A	←
	Total output current		10A	←
	Allowable voltage range		±10% (with V.ADJ)	24 to 28V
	Ripple noise voltage		480mV max.	80mV max. (at 20MHz of bandwidth)
	Output leakage current		10mA max.	←
	Input fluctuation		0.5% max.	←
	Load fluctuation		4.0% max.	←
	Temperature fluctuation		0.05%/℃ max.	←
	Startup time		3,000ms max.	1,000ms max.
	Output hold time		20ms min.	30ms typ.
Functions	Tripping functions	Abnormal voltage tripping	28.8V(cannot be changed)	32.0V(cannot be changed)
		Abnormal current tripping	3.8A (cannot be changed)	←
		Abnormal total current tripping	More than 17A for 2s, 15A for 5s, 13A for 10s, 12A for 20s	←
		Tripping alarm output	Photo-switch output	←
	Undervoltage detection functions	Undervoltage detection	20.0V (cannot be changed)	←
		Undervoltage detection output	Photo-switch output	←

Item			Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
			S8AS-24006N	S8AS2-24024-06SN
Functions	Maintenance forecast monitor function	Maintenance forecast monitor	0.5year (cannot be changed)	0.0 to 5.0year (in 0.1year increments)
		Percentage up to replacement time	-	0.0 to 99.9% (in 0.1% increments)
		Total running time	-	0 to 132kHour (in 1kHour increments)
		Maintenance forecast monitor output	Photo-switch output	←
	Over temperature detection function	Over temperature	90℃ (cannot be changed)	25 to 100℃ (in 1℃ increments)
		Over temperature output	Photo-switch output	←
	Display functions	Output voltage display	17.0 to 30.0V	16.3 to 32.0V
		Output current display	Branch output: 0.0 to 4.0A Peak output: 0.0 to 20.0A Total current: 0.0 to 40.0A	Branch output: 0.0～20.0A Peak output: 0.0～20.0A Total current: 0.0～60.0A
		Maintenance forecast monitor display	FUL(Full) / HLF (Half) / 0.0 to 5.0year	FUL(Full) / HLF (Half) / 0.0 to 4.9year
		Temperature display	-20 to +100℃	-20 to +120℃
	External Tripping Input		All branch outputs: Enabled	←
	Startup sequence		CH1: 0.0s, CH2: 0.4s, CH3: 0.8s, CH4: 1.2s, CH5: 1.6s, CH6: 2.0s,	←
	Shutdown sequence		All branch outputs: 0.0s	←
	Communications		Not supported	←
	Parallel connection		Not supported	←
	Series connection		Not supported	←
Others	Ambient operation temperature		-10 to +60℃	-25 to +70℃
	Storage temperature		-25 to +65℃	-40 to +85℃
	Ambient operating humidity		25 to 85% (storage: 25 to 90%)	95% max. (storage: 95% max.)

Item		Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
		S8AS-24006N	**S8AS2-24024-06SN**
Others	**Withstand voltage**	3.0kVAC 1min between all input terminals collectively and all branch output, all I/O signal, and all communications terminals collectively 2.0kVAC 1min between all inputs and protective earth 1.0kVAC 1min between protective earth and all branch output, all I/O signal, and all communications terminals collectively 500VAC 1min between all branch output and all I/O signal/communications terminals collectively 500VAC 1min between all I/O signal terminals collectively and communications terminals collectively 500VAC 1min between all I/O signal terminals collectively and all output signal terminals collectively (detection current: 20mA)	3.0kVAC for 1 min between all input terminals collectively and all branch output terminals, all I/O signal terminals collectively 2.0kVAC for 1 min between all input terminals collectively and protective earth 500VAC for 1 min between all branch output terminals and all I/O signal terminals collectively 500VAC for 1 min between all output signals and all input signals collectively (detection current: 20mA) 1.0kVAC for 1 min between protective earth and all branch output terminals, all I/O signal terminals collectively (detection current: 30mA)
	Insulation resistance	100MΩ min. at 500VDC	←
	Vibration resistance	10 to 55Hz at 0.375mm single amplitude for 2h each in 3 directions	←
	Shock resistance	150m/s^2 3 times each in 6 directions	←
	Output indicator	Provided (Color: green)	←
	Conducted EMI	Conforms to EN 61204-3 ClassA	Conforms to EN 61204-3 ClassB
	Radiated EMI	Conforms to EN 61204-3 ClassA	Conforms to EN 61204-3 ClassB
	Safety standards	UL 508 (Listing, Class2) CSA C22.2 No.107.1 (Class2) EN 62477-1	UL 508 (Listing, Class2) CSA C22.2 No.107.1 (Class2) EN/IEC 62477-1 Conforms EN/IEC 61558-2-16 RCM (EN61000-6-4)
	SEMI standard	SEMI F47-0706 (200VAC)	SEMI F47-0706 (200 to 240VAC)
	Weight	1,600g max.	1,050g max.

Item			Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
			S8AS-48008 / S8AS-48008R	S8AS2-48024-08S
Efficiency (typ.)			80% min.	93% typ.(100VAC) 95% typ.(200VAC)
Input conditions	Voltage range		100 to 240VAC (85 to 264VAC)	←
	Frequency		50/60Hz (47 to 63Hz)	←
	Current		7.4A max.(100VAC) 3.9A max.(200VAC)	5.2A typ.(100VAC) 2.6A typ.(200VAC)
	Power factor		0.95 min.	0.9 min.
	Harmonic current		EN61000-3-2	←
	Leakage current		0.5mA max.(100VAC) 1.0mA max.(200VAC)	←
	Inrush current		25A max.(100VAC) 50A max.(200VAC)	14A typ.(100VAC) 28A typ.(200VAC)
Output conditions	Number of branches		8	←
	Max cutoff output current		3.8A	←
	Total output current		20A	←
	Allowable voltage range		±10% (with V.ADJ)	24 to 28V
	Ripple noise voltage		480mV max.	190mV max. (at 20MHz of bandwidth)
	Output leakage current		10mA max.	←
	Input fluctuation		0.5% max.	←
	Load fluctuation		4.0% max.	←
	Temperature fluctuation		0.05%/℃ max.	←
	Startup time		3,000ms max.	1,000ms max.
	Output hold time		20ms min.	30ms typ.
Functions	Tripping functions	Abnormal voltage tripping	28.8V(cannot be changed)	26.0 to 32.0V(in 0.1V increments)
		Abnormal current tripping	0.5 to 3.8A (in 0.1A increments)	←
		Abnormal total current tripping	More than 27A for 1s, 25A for 2s, 22.5A for 5s	←
		Tripping alarm output	Photo-switch output	←
	Undervoltage detection functions	Undervoltage detection	18.0 to 26.4V (in 0.1V increments)	←
		Undervoltage detection output	Photo-switch output	←

Item			Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
			S8AS-48008 / S8AS-48008R	S8AS2-48024-08S
Functions	Maintenance forecast monitor function	Maintenance forecast monitor	0.0 to 5.0year (in 0.5year increments)	0.0 to 5.0year (in 0.1year increments)
		Percentage up to replacement time	-	0.0 to 99.9% (in 0.1% increments)
		Total running time	-	0 to 132kHour (in 1kHour increments)
		Maintenance forecast monitor output	Photo-switch output	←
	Over temperature detection function	Over temperature	25 to 90℃ (in 1℃ increments)	25 to 100℃ (in 1℃ increments)
		Over temperature output	Photo-switch output	←
	Display functions	Output voltage display	17.0 to 30.0V	16.3 to 32.0V
		Output current display	Branch output: 0.0 to 4.0A Peak output: 0.0 to 20.0A Total current: 0.0 to 40.0A	Branch output: 0.0～20.0A Peak output: 0.0～20.0A Total current: 0.0～60.0A
		Maintenance forecast monitor display	FUL(Full) / HLF (Half) / 0.0 to 5.0year	FUL(Full) / HLF (Half) / 0.0 to 4.9year
		Temperature display	-20 to +100℃	-20 to +120℃
	External Tripping Input		The input can be enabled or disabled for each branch output	←
	Startup sequence		0.0 to 99.9s (in 0.1s increments)	←
	Shutdown sequence		0.0 to 99.9s (in 0.1s increments)	←
	Communications		RS-485 (only R type)	Not supported
	Parallel connection		Not supported	←
	Series connection		Not supported	←
Others	Ambient operation temperature		-10 to +60℃	-25 to +70℃
	Storage temperature		-25 to +65℃	-40 to +85℃
	Ambient operating humidity		25 to 85% (storage: 25 to 90%)	95% max. (storage: 95% max.)

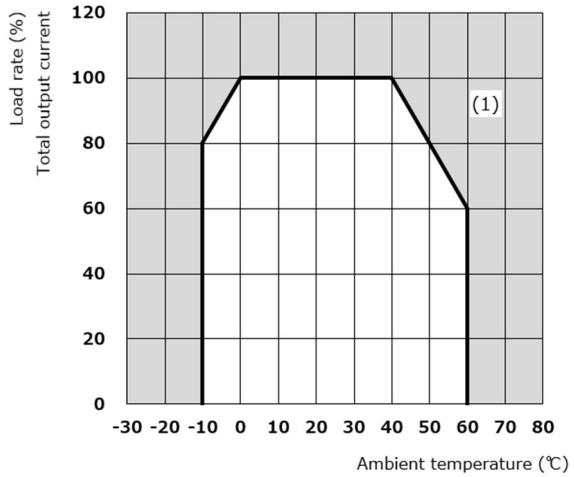
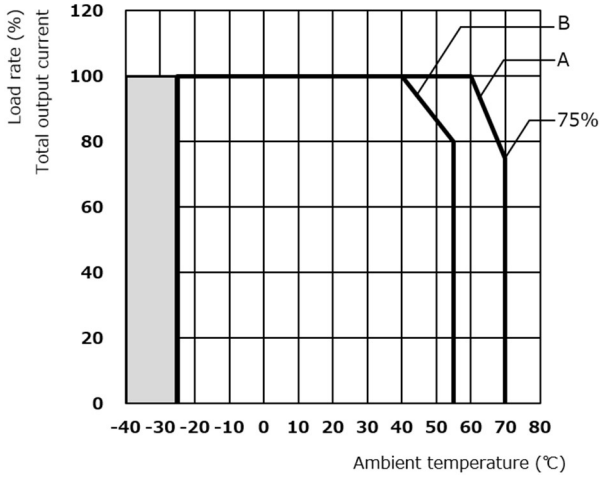
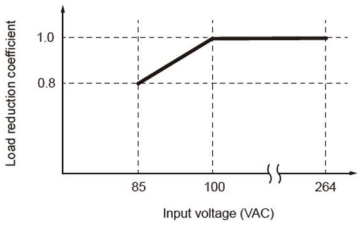
Item		Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
		S8AS-48008 / S8AS-48008R	S8AS2-48024-08S
Others	**Withstand voltage**	3.0kVAC 1min between all input terminals collectively and all branch output, all I/O signal, and all communications terminals collectively 2.0kVAC 1min between all inputs and protective earth 1.0kVAC 1min between protective earth and all branch output, all I/O signal, and all communications terminals collectively 500VAC 1min between all branch output and all I/O signal/communications terminals collectively 500VAC 1min between all I/O signal terminals collectively and communications terminals collectively 500VAC 1min between all I/O signal terminals collectively and all output signal terminals collectively (detection current: 20mA)	3.0kVAC for 1 min between all input terminals collectively and all branch output terminals, all I/O signal terminals collectively 2.0kVAC for 1 min between all input terminals collectively and protective earth 500VAC for 1 min between all branch output terminals and all I/O signal terminals collectively 500VAC for 1 min between all output signals and all input signals collectively (detection current: 20mA) 1.0kVAC for 1 min between protective earth and all branch output terminals, all I/O signal terminals collectively (detection current: 30mA)
	Insulation resistance	100MΩ min. at 500VDC	←
	Vibration resistance	10 to 55Hz at 0.375mm single amplitude for 2h each in 3 directions	←
	Shock resistance	150m/s^2 3 times each in 6 directions	←
	Output indicator	Provided (Color: green)	←
	Conducted EMI	Conforms to EN 61204-3 ClassA	Conforms to EN 61204-3 ClassB
	Radiated EMI	Conforms to EN 61204-3 ClassA	Conforms to EN 61204-3 ClassB
	Safety standards	UL 508 (Listing, Class2) CSA C22.2 No.107.1 (Class2) EN 62477-1	UL 508 (Listing, Class2) CSA C22.2 No.107.1 (Class2) EN/IEC 62477-1 Conforms EN/IEC 61558-2-16 RCM (EN61000-6-4)
	SEMI standard	SEMI F47-0706 (200VAC)	SEMI F47-0706 (200 to 240VAC)
	Weight	2,400g max.	1,400g max.

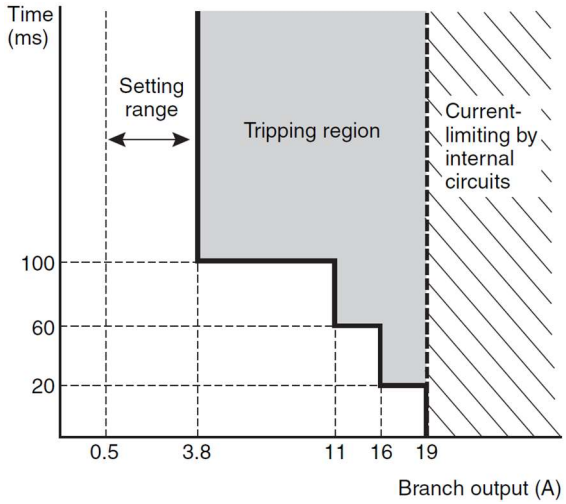
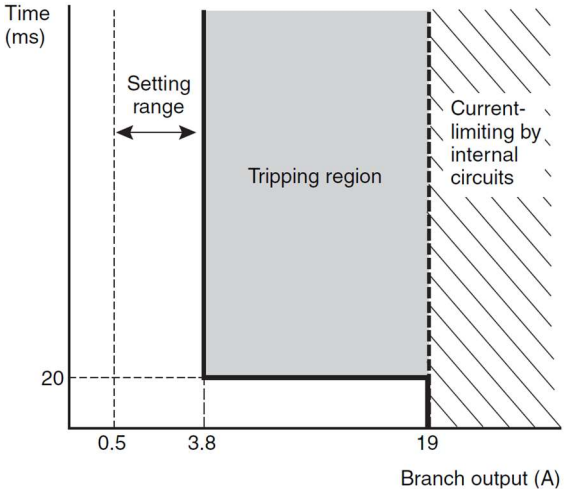
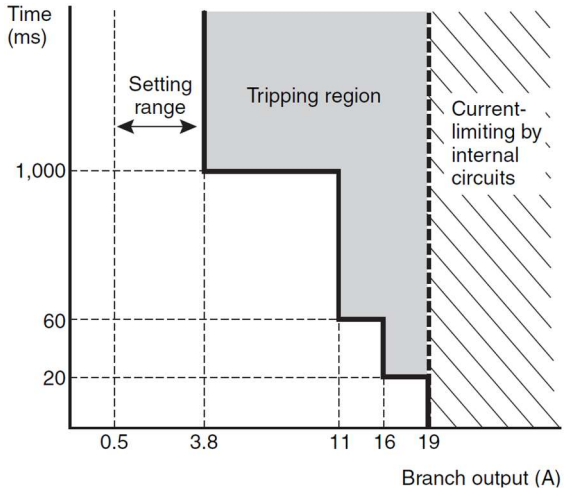
Item			Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
			S8AS-48008N	S8AS2-48024-08SN
Efficiency (typ.)			80% min.	93% typ.(100VAC) 95% typ.(200VAC)
Input conditions	Voltage range		100 to 240VAC (85 to 264VAC)	←
	Frequency		50/60Hz (47 to 63Hz)	←
	Current		7.4A max.(100VAC) 3.9A max.(200VAC)	5.2A typ.(100VAC) 2.6A typ.(200VAC)
	Power factor		0.95 min.	0.9 min.
	Harmonic current		EN61000-3-2	←
	Leakage current		0.5mA max.(100VAC) 1.0mA max.(200VAC)	←
	Inrush current		25A max.(100VAC) 50A max.(200VAC)	14A typ.(100VAC) 28A typ.(200VAC)
Output conditions	Number of branches		8	←
	Max cutoff output current		3.8A	←
	Total output current		20A	←
	Allowable voltage range		±10% (with V.ADJ)	24 to 28V
	Ripple noise voltage		480mV max.	190mV max. (at 20MHz of bandwidth)
	Output leakage current		10mA max.	←
	Input fluctuation		0.5% max.	←
	Load fluctuation		4.0% max.	←
	Temperature fluctuation		0.05%/℃ max.	←
	Startup time		3,000ms max.	1,000ms max.
	Output hold time		20ms min.	30ms typ.
Functions	Tripping functions	Abnormal voltage tripping	28.8V(cannot be changed)	32.0V(cannot be changed)
		Abnormal current tripping	3.8A (cannot be changed)	←
		Abnormal total current tripping	More than 27A for 1s, 25A for 2s, 22.5A for 5s	←
		Tripping alarm output	Photo-switch output	←
	Undervoltage detection functions	Undervoltage detection	20.0V (cannot be changed)	←
		Undervoltage detection output	Photo-switch output	←

Item			Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
			S8AS-48008N	S8AS2-48024-08SN
Functions	Maintenance forecast monitor function	Maintenance forecast monitor	0.5year (cannot be changed)	0.0 to 5.0year (in 0.1year increments)
		Percentage up to replacement time	-	0.0 to 99.9% (in 0.1% increments)
		Total running time	-	0 to 132kHour (in 1kHour increments)
		Maintenance forecast monitor output	Photo-switch output	←
	Over temperature detection function	Over temperature	90℃ (cannot be changed)	25 to 100℃ (in 1℃ increments)
		Over temperature output	Photo-switch output	←
	Display functions	Output voltage display	17.0 to 30.0V	16.3 to 32.0V
		Output current display	Branch output: 0.0 to 4.0A Peak output: 0.0 to 20.0A Total current: 0.0 to 40.0A	Branch output: 0.0～20.0A Peak output: 0.0～20.0A Total current: 0.0～60.0A
		Maintenance forecast monitor display	FUL(Full) / HLF (Half) / 0.0 to 5.0year	FUL(Full) / HLF (Half) / 0.0 to 4.9year
		Temperature display	-20 to +100℃	-20 to +120℃
	External Tripping Input		All branch outputs: Enabled	←
	Startup sequence		CH1: 0.0s, CH2: 0.4s, CH3: 0.8s, CH4: 1.2s, CH5: 1.6s, CH6: 2.0s, CH7: 2.4s, CH8: 2.8s	←
	Shutdown sequence		All branch outputs: 0.0s	←
	Communications		Not supported	←
	Parallel connection		Not supported	←
	Series connection		Not supported	←
Others	Ambient operation temperature		-10 to +60℃	-25 to +70℃
	Storage temperature		-25 to +65℃	-40 to +85℃
	Ambient operating humidity		25 to 85% (storage: 25 to 90%)	95% max. (storage: 95% max.)

Item		Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
		S8AS-48008N	**S8AS2-48024-08SN**
Others	**Withstand voltage**	3.0kVAC 1min between all input terminals collectively and all branch output, all I/O signal, and all communications terminals collectively 2.0kVAC 1min between all inputs and protective earth 1.0kVAC 1min between protective earth and all branch output, all I/O signal, and all communications terminals collectively 500VAC 1min between all branch output and all I/O signal/communications terminals collectively 500VAC 1min between all I/O signal terminals collectively and communications terminals collectively 500VAC 1min between all I/O signal terminals collectively and all output signal terminals collectively (detection current: 20mA)	3.0kVAC for 1 min between all input terminals collectively and all branch output terminals, all I/O signal terminals collectively 2.0kVAC for 1 min between all input terminals collectively and protective earth 500VAC for 1 min between all branch output terminals and all I/O signal terminals collectively 500VAC for 1 min between all output signals and all input signals collectively (detection current: 20mA) 1.0kVAC for 1 min between protective earth and all branch output terminals, all I/O signal terminals collectively (detection current: 30mA)
	Insulation resistance	100MΩ min. at 500VDC	←
	Vibration resistance	10 to 55Hz at 0.375mm single amplitude for 2h each in 3 directions	←
	Shock resistance	150m/s^2 3 times each in 6 directions	←
	Output indicator	Provided (Color: green)	←
	Conducted EMI	Conforms to EN 61204-3 ClassA	Conforms to EN 61204-3 ClassB
	Radiated EMI	Conforms to EN 61204-3 ClassA	Conforms to EN 61204-3 ClassB
	Safety standards	UL 508 (Listing, Class2) CSA C22.2 No.107.1 (Class2) EN 62477-1	UL 508 (Listing, Class2) CSA C22.2 No.107.1 (Class2) EN/IEC 62477-1 Conforms EN/IEC 61558-2-16 RCM (EN61000-6-4)
	SEMI standard	SEMI F47-0706 (200VAC)	SEMI F47-0706 (200 to 240VAC)
	Weight	2,400g max.	1,400g max.

[Operation ratings]

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
Derating Curve  **Note: 1.** Internal parts may occasionally be deteriorated or damaged. Do not use the S8AS in areas outside the derating curve (i.e., in the area shown by shading (1) in the above graph). **2.** Use forced cooling if necessary to satisfy the derating curve. **3.** For 480-W models, reduce the load to 80% or less for long-term use at an input voltage of 95 VAC or less.	**Derating Curve**  **Note: 1.** Within the range, it takes time from the application of input voltage until the rated Output voltage is produced. Also, the value of ripple noise may Yes outside the range described under "Ratings and Characteristics." **Note: 2.** Please multiply the Load factor indicated by the above Outputs derating by the Load reduction coefficient relative to the input voltage and use the resulting value. A: At least 15 mm spacing between left and right during Standard installation B: Less than 15 mm spacing between left and right when mounted in Front contact **Load reduction factor for input voltage** 
Tripping Performance <Judgment Type Selection> Standard, instantaneous, or extended can be set as the method for detecting the tripping current. <Current Limit> This function is provided to limit excessive short currents, such as those that can flow for equipment short faults. <Safety Circuits> Temperature fuses and current fuses are provided for each branch output to ensure safety even in the unusual event of an internal failure.	**Tripping Performance** Equivalent.

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
<Standard Detection>  	<Standard Detection> Equivalent.
<Instantaneous Detection>  	<Instantaneous Detection> Equivalent.
<Extended Detection>  	<Extended Detection> Equivalent.

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series

Tripping Functions

Setting	Operating range	Parame-ters settings	Outputs cut off
Abnormal Voltage Tripping	Tripping when the output voltage exceeds the abnormal voltage tripping setting.	Yes	All branch outputs
Short-circuit current tripping	Output cut off at 16A for 20ms max. Output cut off at 11A for 60ms max.	None	Individu al branch output
Abnormal current tripping	0.5 to 3.8A (in 0.1A increments) Select from standard, instantaneous, and extended detection methods.		Individu al branch output
Abnormal total current tripping	Tripping occurs when the sum of all branch output currents exceeds at a constant current value for a certain period of time.	None	All branch outputs
External tripping input	External input signal(TRG) ON		Specified output

Alarm Output and Error Display Functions

Alarm	Alarm output	Output status	Alarm display
Abnormal voltage tripping	TRP output: OFF	All branch outputs cut off	A10
Abnormal current tripping	TRP output: OFF	Relevant branch output cut off	A11/Abnor mal current
Abnormal total current tripping	TRP output: OFF	All branch outputs cut off	A12
Undervoltag e detection	LOW output: OFF	ON	A21/Abnor mal voltage value
Maintenance forecast monitor	LFE output: OFF	ON	A23/Replac ement time
Overheating alarm	LFE output: OFF	ON	A23/HOT
Over-temperature	TMP output: OFF	ON	A30/Tempe rature

* If the overheating alarm stays on for more than 3 hours, this alarm state can no longer be cleared.

Tripping Functions

Equivalent.

Alarm Output and Error Display Functions

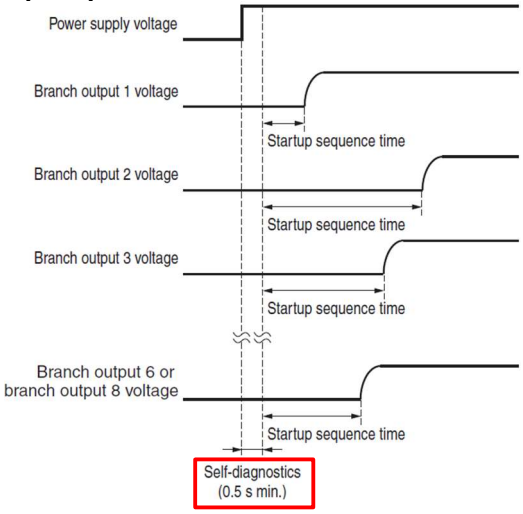
Equivalent.

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series

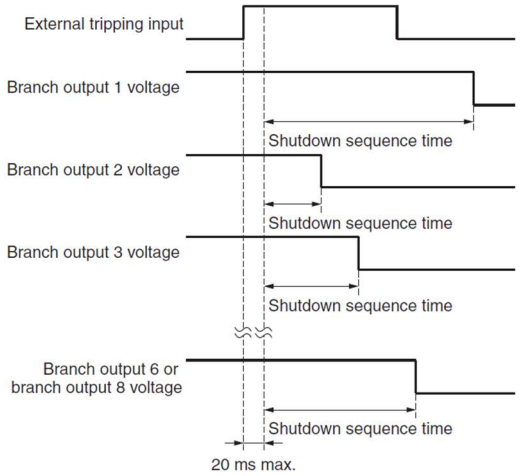
Status Indicators

Lit green	Normal connection status
Flashing green	Connection standby status during the startup sequence
Lit red	Cutoff status for an abnormally
Flashing red	Cutoff status for an internal abnormally
Not lit	Forced cutoff or operation stopped

Startup sequence



Shutdown sequence



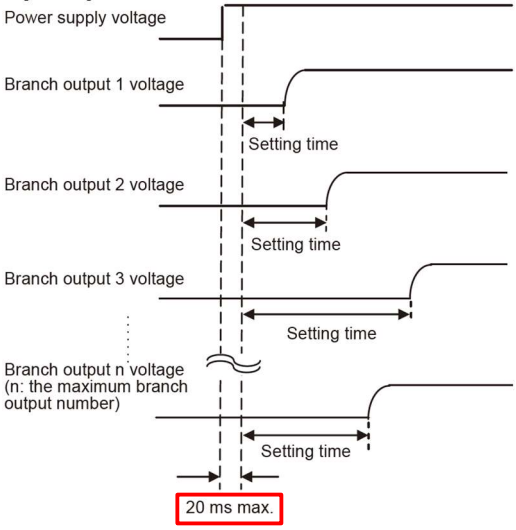
Mode Description

Run Mode	The following operating mode information can be read out on a 7-segment LED.
Setting Mode	Set and change various parameters.
Test Mode	Perform operation checks of devices connected to the S8AS.
Select Protection level	To prevent erroneous operations, modification actions are restricted in three stages.
Initialize Parameters	Initialize to the factory default settings.

Status Indicators

Equivalent.
(The channel ON/OFF selection key serves as an status indicator.)

Startup sequence



Shutdown sequence

Equivalent.

Mode Description

Monitor Mode	The following monitor information can be read out on a 7-segment LED.
Setting Mode	Set and change various parameters.

* Test mode, protection level, and setting value initialization can be executed and changed from the setting mode.

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series

Run Functions

Parameter name (display order)
Output voltage
Total current
Output current
Peak current
Years up to replacement time
Temperature

Monitor Functions (Changes are indicated in red text.)

Parameter name (display order)
Output voltage
Output current
Total current
Peak current
Years up to replacement time
Percentage up to replacement time
Total running time
Temperature

Setting Functions

Parameter name (display order)	Memo
Abnormal current tripping threshold	
Abnormal current tripping type	USU: Standard INS: Instantaneous LNG: Extended time
Undervoltage detection threshold	
Maintenance forecast output threshold	
Temperature alarm threshold	
Startup sequence	
Shutdown sequence	
Tripping trigger enable/disable	The external tripping input function (TRG) can be enabled (ON) or disabled (OFF) for each branch output.
Tripping trigger type	EGE or LVL
Communications Settings	
Reset function setting	The tripping alarm output and alarm output can be cleared after removing the cause of the alarm by the following two methods. · KEY: RST Key only enabled · ALL: RST Key or turning power OFF and ON again.

Setting Functions (Changes are indicated in red text.)

Parameter name (display order)	Memo
Abnormal current tripping threshold	
Abnormal current tripping type	USU: Standard INS: Instantaneous LNG: Extended time
Abnormal voltage tripping threshold	
Undervoltage detection threshold	
Maintenance forecast output threshold	
Maintenance forecast percentage threshold	
Running time alarm threshold	
Temperature alarm threshold	
Startup sequence	
Shutdown sequence	
Tripping trigger enable/disable	The external tripping input function (TRG) can be enabled (ON) or disabled (OFF) for each branch output.
Tripping trigger type	EGE or LVL
Software tripping trigger	Input a trigger virtually using only key operations.
Startup operation check test	Turn the power supply ON/OFF virtually using only key operations.
Reset function setting	The tripping alarm output and alarm output can be cleared after removing the cause of the alarm by the following two methods. · KEY: RST Key only enabled · ALL: RST Key or turning power OFF and ON again.
Protection level	1 or 2 or 3
Channel selection key Enabled/Disabled	
Initialize defaults	Initialize to the factory default state.

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series

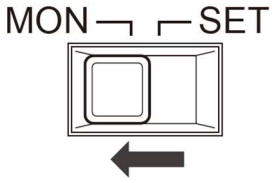
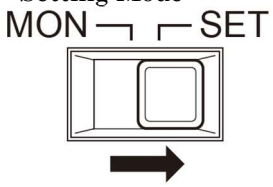
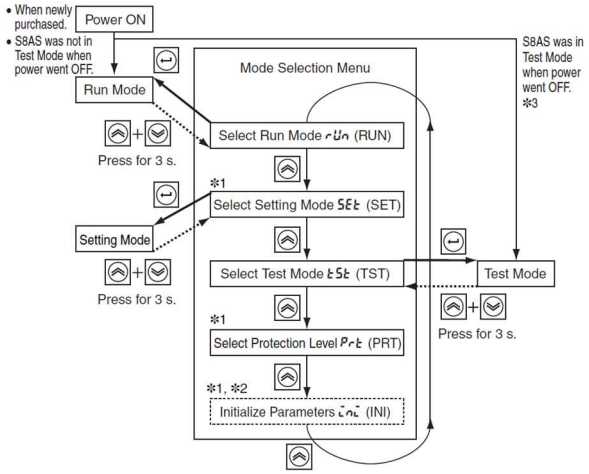
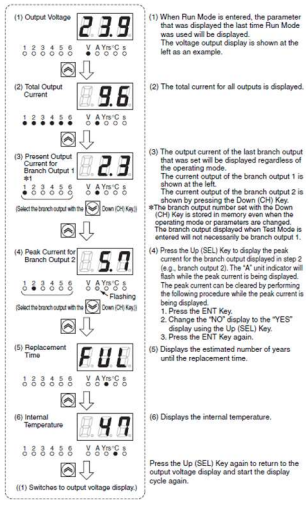
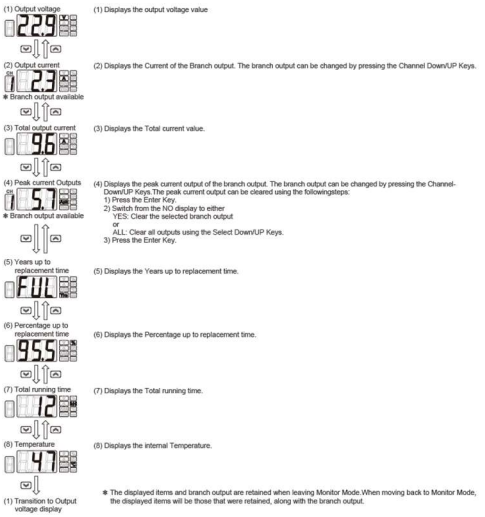
Error Display List

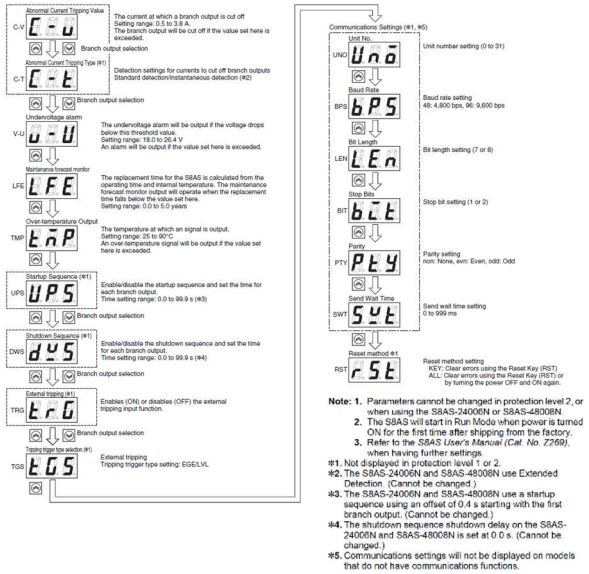
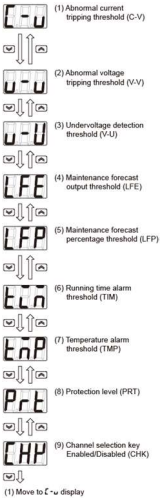
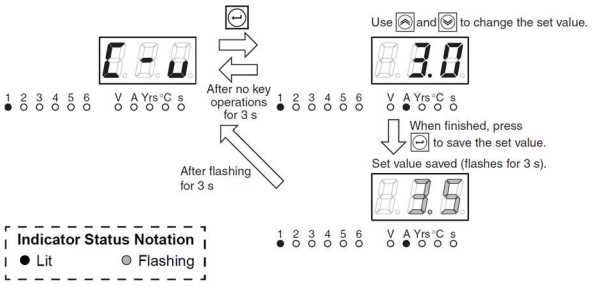
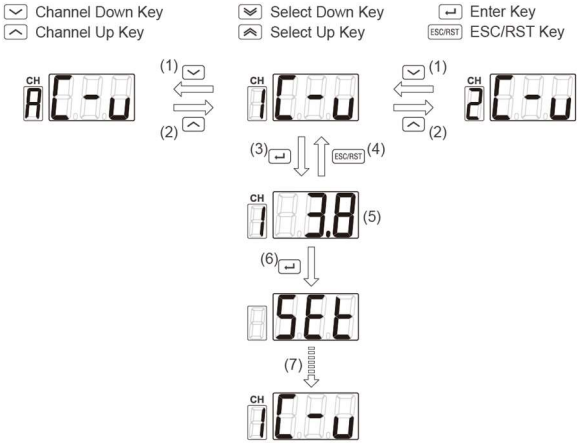
LED display	Error code	Meaning
ErP	ERP	Memory error on power supply side
.	---	S8AS2 hardware error
ALP	ALP	Power supply voltage error
E98	E98	RAM error
E97	E97	EEP-ROM read error
E96	E96	EEP-ROM write error
E95	E95	Internal communications error
E94	E94	Short circuit failure
E00	E00	EEP-ROM initialization error
E01	E01	EEP-ROM error
E02	E02	Model error
E03	E03	Factory default detection mode
E10	E10	Data is corrupted
A10	A10	Abnormal voltage tripping
A11	A11	Abnormal current tripping
A12	A12	Total current tripping
A21	A21	Undervoltage alarm
A23	A23	Yrs or % is lit: Maintenance forecast monitor output kH is lit: Running time alarm
A23/Hot	A23/HOT	Overheating alarm
A30	A30	Over-temperature output

Error Display List

LED display	Error code	Meaning
ErP	ERP	Memory error on power supply side
.	---	S8AS2 hardware error
E98	E98	RAM error
E97	E97	EEP-ROM read error
E96	E96	EEP-ROM write error
E94	E94	Short circuit failure
E00	E00	EEP-ROM initialization error
E01	E01	EEP-ROM error
E02	E02	Model error
E03	E03	Factory default detection mode
E06	E06	Product overheating abnormality
E10	E10	Data is corrupted
A10	A10	Abnormal voltage tripping
A11	A11	Abnormal current tripping
A12	A12	Total current tripping
A21	A21	Undervoltage alarm
A23	A23	Yrs or % is lit: Maintenance forecast monitor output kH is lit: Running time alarm
A23/Hot	A23/HOT	Overheating alarm
A30	A30	Over-temperature output

[Operation methods]

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
Mode selection - The device starts in "Run Mode" when the power is turned ON. - By pressing and holding the Up (SEL) key and Down (CH) key for 3 seconds in this state, it transitions to the "Mode Selection Menu." - You can select each mode by pressing the Up (SEL) key and transition to each mode by pressing the ENT key. - To return to the "Mode Selection Menu," press and hold the Up (SEL) key and Down (CH) key for 3 seconds in each mode.	**Mode selection** The device starts in the mode corresponding to the position of the "Mode switching SW" when the power is turned ON. It is set to "Monitor Mode" at the time of shipment. <Monitor Mode>  <Setting Mode> 
 	
Run Mode - The display of each parameter transitions by pressing the Up (SEL) key. - To display the value of another branching output, it can be selected by pressing the Down (CH) key. - To clear the "Peak Current," while in the "Peak Current" display state, press the Enter (ENT) key, switch the "NO" display to "YES" using the Up (SEL) key, and then press the Enter (ENT) key again to confirm.	**Monitor Mode** - The display of each parameter transitions by pressing the selection Up/Down keys. - To display the value of another branching output, it can be selected by pressing the channel Up/Down keys. - To clear the "Peak Current," while in the "Peak Current" display state, press the Enter key, select "NO" and switch it to either "YES" or "ALL" using the selection Up/Down keys, and then press the Enter key again to confirm.
 	

Product discontinuation Model S8AS series	Recommendable replacement Model S8AS2 series
Setting Mode Various parameter items can be selected using the Up (SEL) and Down (CH) keys.	**Setting Mode** Various parameter items can be selected using the selection Up and Down keys.
	 Changes to the settings of the S8AS2 are made in Setting Mode. However, due to operational restrictions of the Protection Level, there may be setting values that cannot be modified and are hidden. Change the protection levels needed. Refer to the User's Manual for details on parameters and restrictions for the Protection Level. In the S8AS2-□□-□SN, parameters (1) to (7) are not displayed and cannot be changed, regardless of the Protection Level. * The display shown here is when the Protection level is Setting to Lv1.
<Setting Parameters> - Transition to the setting value change state by pressing the Enter (ENT) key. - Change the setting value using the Up (SEL) and Down (CH) keys. - Confirm the changes by pressing the Enter (ENT) key. - To return from the setting value change state to the parameter display, it will revert after 3 seconds of inactivity.	<Setting Parameters> - Transition to the setting value change state by pressing the Enter key. - Change the setting value using the selection Up and Down keys. Holding down the key accelerates the change in the setting value. - Confirm the changes by pressing the Enter key (displayed as "SET"). - To return from the setting value change state to the parameter display, press the ESC/RST key.
	

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.