

Smart Power Supply

S8AS

CSM_S8AS_DS_E_6_1

A New Type of Power Supply That Provides Safety and Maintainability



- 240- and 480-W power supplies with and digital circuit protectors in a single package.
- Each branch output tripping current value can be easily set at 0.1-A increments.
- Startup and shutdown sequence control included.
- Various monitor displays and alarms (output voltage, output current, maintenance forecast monitor, temperature).
- Conforms to UL Class 2
- Mounts to DIN Rail.



Refer to *Safety Precautions for All Power Supplies* and *Safety Precautions* on page 23.

Model Number Structure

Model Number Legend

S8AS-
 1 2 3

1. Capacity

240: 240 W
480: 480 W

2. Number of Output Branches

06: 6 branch outputs
08: 8 branch outputs

3. Additional Functions

Blank: Changeable parameter settings with no communications
N: Unchangeable parameter settings with no communications
R: Changeable parameter settings with communications (RS-485)

Ordering Information

S8AS

Capacity	Input voltage	Output voltage	Maximum cutoff output current (per branch)	Total output current	Number of output branches	Communications functions	Parameter settings	Model
240 W	100 to 240 VAC	24 V	3.8 A	10 A	6 branch outputs	None	Changeable	S8AS-24006
						None	Not changeable	S8AS-24006N
						RS-485	Changeable	S8AS-24006R
480 W	100 to 240 VAC	24 V	3.8 A	20 A	8 branch outputs	None	Changeable	S8AS-48008
						None	Not changeable	S8AS-48008N
						RS-485	Changeable	S8AS-48008R

Be sure to read and fully understand the content of the *S8AS User's Manual (Cat. No. Z269)* before changing settings on the S8AS.

Specifications

S8AS-24006□

Item	Model	S8AS-24006	S8AS-24006N	S8AS-24006R	
Efficiency (Typ.)		80% min.			
Input conditions	Voltage range *1		100 to 240 VAC (85 to 264 VAC)		
	Frequency *1		50/60 Hz (47 to 63 Hz)		
	Current	100-V input	3.8 A max.		
		200-V input	2.0 A max.		
	Power factor		0.95 min.		
	Harmonic current		EN61000-3-2		
	Leakage current	100-V input	0.5 mA max.		
		200-V input	1.0 mA max.		
Inrush current *2	100-V input	25 A max. (for a cold start at 25°C)			
	200-V input	50 A max. (for a cold start at 25°C)			
Output conditions	Number of branches		6		
	Maximum cutoff output current (per branch)		3.8 A		
	Total output current		10 A		
	Allowable voltage range *3		±10% (with V.ADJ)		
	Ripple noise voltage		2.0% [P-P] max. (for rated input and output voltage) *4		
	Output leakage current		10 mA max.		
	Input fluctuation		0.5% max. (Input: 85 to 264 VAC, 100% load) *5		
	Load fluctuation (rated input voltage)		4.0% max. (rated input, 0% to 100% load) *5		
	Temperature fluctuation		0.05%/°C max.		
	Startup time *2		3,000 ms max. (for rated input and output voltage) *4		
Output hold time *2		20 ms max. (for rated input and output voltage) *4			
Functions	Tripping functions	Abnormal voltage tripping		28.8 V (Cannot be changed.)	
		Abnormal current tripping *2		Setting range: 0.5 to 3.8 A (in 0.1-A increments) 3.8 A (Cannot be changed.) Setting range: 0.5 to 3.8 A (in 0.1-A increments)	
		Abnormal total current tripping		Branch outputs are cut off when the total output current is more than 17 A for 2 s, 15 A for 5 s, 13 A for 10 s, or 12 A for 20 s.	
		Tripping alarm output		Photoswitch output 30 VDC max. and 50 mA max., Leakage current: 0.1 mA max., Residual voltage: 2 V max.	
	Undervoltage detection functions	Undervoltage detection		Setting range: 18.0 to 26.4 V (in 0.1-V increments) 20.0 V (Cannot be changed.) Setting range: 18.0 to 26.4 V (in 0.1-V increments)	
		Undervoltage detection output		Photoswitch output 30 VDC max. and 50 mA max., Leakage current: 0.1 mA max., Residual voltage: 2 V max.	
	Maintenance forecast monitor function	Maintenance forecast monitor		Setting range: 0.0 to 5.0 yr (in 0.5-yr increments) 0.5 yr (Cannot be changed.) Setting range: 0.0 to 5.0 yr (in 0.5-yr increments)	
		Maintenance forecast monitor output		Photoswitch output 30 VDC max. and 50 mA max., Leakage current: 0.1 mA max., Residual voltage: 2 V max.	
	Over-temperature detection function	Over-temperature		Setting range: 25 to 90°C (in 1°C increments) 90°C (Cannot be changed.) Setting range: 25 to 90°C (in 1°C increments)	
		Over-temperature output		Photoswitch output 30 VDC max. and 50 mA max., Leakage current: 0.1 mA max., Residual voltage: 2 V max.	
	Display functions	Output voltage display		Display range: 17.0 to 30.0 V Display accuracy: 2% rdg ±1 digit max.	
		Output current display		Branch output display range: 0.0 to 4.0 A Peak output current display range: 0.0 to 20.0 A Total current display range: 0.0 to 40.0 A Display accuracy: 5% FS (4 A) ±1 digit max.	
		Maintenance forecast monitor display		Display range: FUL (Full)/HLF (Half)/0.0 to 5.0 yr	
		Temperature display		Display range: -20 to 100°C Display accuracy: 2°C ±1 digit max.	
	External Tripping Input		The input can be enabled or disabled for each branch output. 19.2 to 30.0 VDC, minimum signal width: 10 ms, tripping after input within 20 ms + the shutdown sequence set time	All branch outputs: Enabled (Cannot be changed.) 19.2 to 30.0 VDC, minimum signal width: 10 ms, tripping after input within 20 ms + the shutdown sequence set time	The input can be enabled or disabled for each branch output. 19.2 to 30.0 VDC, minimum signal width: 10 ms, tripping after input within 20 ms + the shutdown sequence set time
	Startup sequence		Setting range: 0.0 to 99.9 s in 0.1-s increments	Branch output 1: 0.0 s (Cannot be changed.) Branch output 2: 0.4 s (Cannot be changed.) Branch output 3: 0.8 s (Cannot be changed.) Branch output 4: 1.2 s (Cannot be changed.) Branch output 5: 1.6 s (Cannot be changed.) Branch output 6: 2.0 s (Cannot be changed.)	Setting range: 0.0 to 99.9 s in 0.1-s increments
Shutdown sequence		Setting range: 0.0 to 99.9 s in 0.1-s increments	All branch outputs: 0.0 s (Cannot be changed.)	Setting range: 0.0 to 99.9 s in 0.1-s increments	
Communications		Not supported		Supported (RS-485)	
Sampling period		1 ms			
Parallel connection		Not supported			
Series connection		Not supported			

Note: Refer to the next page for information on *1 to *5.