**OMRON** 

**Switch Mode Power Supplies** 

## S8VK-S/S8FS-G

## The choice is clear





It's not only the chameleon that has evolved to survive...

### The choice is clear

# Power supplies to drive the new era

OMRON power supplies have evolved to keep pace with changes at manufacturing sites.

To survive in the rapidly changing market, manufacturing sites must also continually change.

OMRON looks at these changes as a global manufacturer and seller of control devices,

and we use what we've learned from our own factory floor in our product development.

We continue to develop power supplies that meet the needs of the ever-changing manufacturing floor.

In order to maximize the added-value of equipment and control panels,

we have created these two evolved power supplies.



#### For changes to the products manufactured

We make compact power supplies that save space to support our customers' increasingly sophisticated equipment.







Side-by-side Conforms to mounting transformer standards

#### For changes to the places of manufacturing

These power supplies can be used in tough environments, from cold regions to the tropics, and even at high altitudes.







Altitudes up to 3,000 m

operating temperature range

Life expectancy: 10 years\*1

#### For changes to the people who manufacture

Wiring can be easily done by workers of varying skill levels.









prevent foreign matter ingress



**Power Supply** S8FS-G

300 W



**Actual size** 

### World's smallest\*2

DIN rail-mounting **Power Supply** S8VK-S

240 W

Power supplies this small, only from OMRON

<sup>\*1.</sup> Life expectancy depends on certain conditions. Refer to the datasheet of each product for details.

<sup>\*2.</sup> According to OMRON investigation in November 2016.

## Selection is Easy.

## For DIN rail-mounting















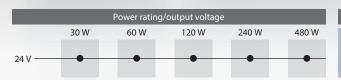








DIN rail-mounting Power Supply **S8VK-S** 





### Saves Space, Allowing Control Panel Downsizing

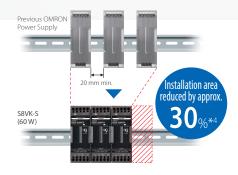
### World's smallest\*1

The space required for the power supply is reduced, allowing the control panel to be downsized and components to be added inside the control panel.



### Side-by-side mounting\*3

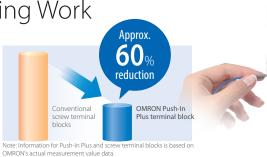
Cooling space between power supplies is not necessary, reducing the installation area. This enables greater flexibility in control panel design.



### Reduced Wiring Work

### Push-In Plus **Terminal Block**

It's as easy as inserting an earphone jack. Tools are not required for wiring, reducing the time and work.



- \*1. According to OMRON investigation in November 2016.
- \*2. Comparison to previous OMRON Power Supply.
- \*3. Conditions apply to models and derating for side-by-side mounting.
- \*4. Comparing mounting of three OMRON S8VK-G (60 W) units to side-by-side mounting of three S8VK-S (60 W) units.

## Which Type Will You Choose?

## For installation in equipment























prevent foreign matter ingress

General-purpose Power Supply **S8FS-G** 

		_	_	_	_	_	_					
Power rating/output voltage												
	15 W	30 W	50 W	100 W	150 W	300 W	600 W					
48 V ———					•	•	-					
24 V ———	•	•	•	•	•	•	•					
15 V	•	•	•	•	•	•	-					
12 V ———												
5 V												
3 V												

Model selection								
With cover/ Direct-mounting type	→ P.12							
With cover/ Direct-mounting type (Connector typ	→ P.12							
With cover/ DIN rail-mounting type	→P.12 <b>G</b>							

### Prevents Trouble during Installation and Maintenance

### Cover to prevent screw dropout

The terminal block cover features a screw dropout prevention mechanism. Screws will not drop when connecting terminals, making work easier.



### Cover to prevent foreign matter ingress

The front cover guards against ingress of foreign matter. This prevents accidental insertion of tools and protects against electric shocks.



## Enables Stable Operation of Devices and Equipment over Long Periods of Time

Features a 10-year life expectancy, including for the fan

These units have a 10-year life expectancy, including for the cooling fan, which in the past required maintenance and replacement.

## A Wide Variety of Models Support

### **DIN Rail Mounting, Small Capacity Power Supply**

These models are recommended for capacities of 15 W and 30 W.



	Power rating/output voltage										
	15 W	30 W	60 W	120 W	240 W	480 W					
48 V											
24 V		•									
12 V	•	•	•								
5 V	•	•									





### **DIN Rail Mounting, 3-Phase Input**

These models are recommended for 3-phase 400 VAC input.



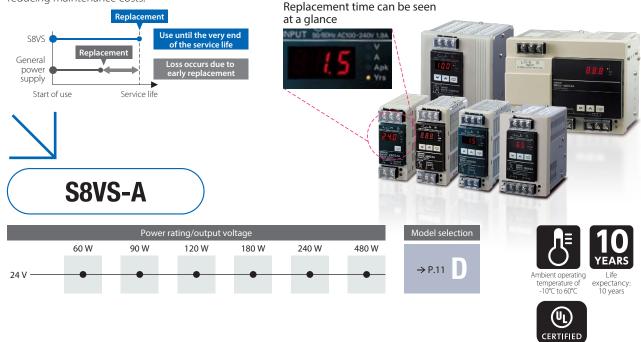




## Various Applications and Requirements.

### **Din Rail Mounting, Maintenance Forecast Monitor**

Replacement time notifications are output and displayed, allowing the power supply to be used until the very end of its service life, reducing maintenance costs.



### For Installation in Equipment, Low-voltage Detection Output

Unit and secondary load errors are detected and a signal is output.



# S8VK-S

## **Function Comparison Table**



### S8VK-G



		30 W/60 W 120 W 240 W 480 W			
	Push-In Plus*1	Yes	_		
	Screw (Rise-up)*1	_	Yes		
I/O connections	Screw	_	_		
	Connector	_	_		
Mounting	DIN rail mounting	Yes (Side-by-side mounting possible*2)	Yes		
	Direct-mounting type (screw)	See note 3.	See note 3.		
	Single phase AC	85 to 264	85 to 264		
Input voltage	3-phase AC	_	_		
(Voltage range)	DC*4	90 to 350	90 to 350		
Built-in fan		No	No		
Boost current*5		Yes	Yes		
	Low-voltage detection	Yes (Only 240 W, 480 W)	_		
	Remote control	_	_		
Additional functions	Remote sensing	_	_		
	Maintenance forecast monitor	_	_		
	Voltage and current display	_	_		
Coated PCB*6		Yes	Optional models		
Parallel operation*7		Yes	Yes		
Ambient operating ter	ĺ	-40°C to 70°C	-40°C to 70°C		
	UL 508	Yes	Yes		
	CSA C22.2 No.107.1	Yes	Yes		
	UL 1310 Class 2 output*10	Yes	Yes		
	UL 62368-1 CSA C22.2 No.62368-1	Recognition (altitudes up to 3,000m)	Recognition		
	EN 62368-1	Yes (altitudes up to 3,000m)	Yes		
	UL 61010-2-201 CSA C22.2 No.61010-2-201	_	_		
Standards	EN 61010-2-201	_	_		
	EN 62477-1	Yes (altitudes up to 3,000m)	Yes		
	Overvoltage Category III (EN 62477-1)	Yes	Yes		
	IEC/EN 61558-2-16	Yes	Yes		
	Harmonic current emissions IEC61000-3-2	Yes	Yes		
	EMI (EN 61204-3, EN 55011)	Class B	Class B		
	Marine Standards*12	LR	LR		
	SEMI*13	SEMI F47	SEMI F47		
Reliability	Warranty Period*14	5 years	3 years		
	Life expectancy*14	10 years	10 years		
Model selection		P.10 A	P.10 B		

<sup>\*1.</sup> Round terminals and forked terminals cannot be used. \*2. For side-by-side mounting, conditions apply. For details, refer to the S8VK-S Power Supplies datasheet. \*3. Separately sold brackets are required. \*4. For DC input, conditions apply for compliance with some safety standards and some models may not be standard certified. Refer to the datasheet of each product for details. \*5. Conditions apply to boost current output. Refer to the datasheet of each product for details. \*6. Chip part mounting surfaces are coated. \*7. Conditions apply to parallel operation. Refer to the datasheet of each product for details. \*8.The maximum ambient operating temperatures for standard mounting conditions are shown. Derating is required according to the temperature. Also, derating may vary depending upon mounting conditions and input voltage. Refer to the datasheet of each product for details.

# S8FS-G

General-purpose Power Supply

S8VK-T	S8VS-A
120 W 240 W 480 W 960 W	60 W 90 W 120 W 180 W 240 W 480 W
_	_
Yes	_
_	Yes
Yes	Yes
See note 3.	See note 3.
340 to 576	85 to 264
340 to 576	65 tO 204
450 to 810	80 to 370 (DC input cannot be used for 480 W.)
No	No
Yes	_
_	Yes (excluding 60 W)
_	— — — — — — — — — — — — — — — — — — —
_	_
_	Yes
_	7-segment LED
Optional models	Optional models
Yes	_
-40°C to 70°C	-10°C to 60°C
Yes	Yes
_	Yes
_	Yes
_	Recognition (Only 480W)
_	Yes (Only 480W)
Listing	_
Yes	_
Yes	Yes
Yes	Yes
Yes Yes	— Yes
Class B	Class A
LR	_
SEMI F47	SEMI F47
3 years	3 years
10 years	10 years
C	

P.10 G

	S8JX-P
15 W/30 W 50 W 100 W	
150 W 300 W 600 W	300 W 600 W
_	_
_	_
Yes (Terminal block cover for preventing screw dropout)	Yes
Optional models	_
Yes	Yes
Yes	Yes
85 to 264	85 to 264
_	_
80 to 370 (15 W to 150 W) 120 to 370 (300 W or less) 120 to 350 (600 W)	80 to 370
No (150 W or less) Yes (300 W, 600 W)	Yes
_	Yes
_	Yes
Optional models (100 W or more, 24 V only)	Yes
——————————————————————————————————————	Yes
_	_
_	_
Optional models	Optional models
Optional models (600 W, 24 V only)	Yes
-20°C to 70°C	-10°C to 70°C
Yes*9	Yes
Yes*9	Yes
— Recognition (altitudes up to 3,000m)	— Recognition
Yes (altitudes up to 3,000m)	Yes
_	_
_	_
Yes (altitudes up to 3,000m)	Yes
Yes	Yes
Yes	_
Yes*11	Yes
Class B	Class B
— CEAN 5 4 7	— CEMI 547
SEMI F47	SEMI F47
3 years 10 years (including fan)	5 years 10 years (excluding fan)
10 years (including lair)	10 years (excluding lan)
P.12 E F G	P.13 H J

<sup>\*9.</sup> Connector type is excluded. Also, optional models may be UL Recognition certified. For details, refer to the S8FS-G series Power Supplies Datasheet. \*10. Only products of less than 100 W are supported as per standard requirements. For applicable models, refer to the datasheet of each product. \*11. 150 W models have a limited load ratio. \*12. Conditions apply to support marine standards. For details, refer to the datasheet of each product. \*13. For 200 VAC input. \*14. Conditions apply to the warranty period and life expectancy. For details, refer to the datasheet of each product.

## S8VK-S

### **List of Models**

			Place a check for the items you're interested in.				
Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Dimensions: $W \times H \times D$ (mm)	<b>V</b>	Model
30 W			1.3 A	1.56 A	32 × 90 × 86		S8VK-S03024
60 W	100 to 240 VAC	24 V	2.5 A	3 A	32 × 90 × 86		S8VK-S06024
120 W	Allowable range: 85 to 264 VAC,		5 A	6 A	55 × 90 × 86		S8VK-S12024
240 W	90 to 350 VDC*		10 A	15 A	38 × 124 × 117.8		S8VK-S24024
480 W			20 A	30 A	60 × 124 × 117.8		S8VK-S48024

## S8VK-G

### **List of Models**

Place a check for the items you're interested in.											
Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Dimensions: $W \times H \times D$ (mm)	<b>V</b>	Model				
		5 V	3 A	3.6 A			S8VK-G01505				
15 W		12 V	1.2 A	1.44 A	$22.5\times90\times86$		S8VK-G01512				
		24 V	0.65 A	0.78 A			S8VK-G01524				
		5 V	5 A	6 A			S8VK-G03005				
30 W	100 to 240 VAC	12 V	2.5 A	3 A	32 × 90 × 86		S8VK-G03012				
		24 V	1.3 A	1.56 A			S8VK-G03024				
60.W	Allowable range: \ 85 to 264 VAC,	12 V	4.5 A	5.4 A	22 1/ 00 1/ 106		S8VK-G06012				
60 W	90 to 350 VDC*	24 V	2.5 A	3 A	32 × 90 × 106		S8VK-G06024				
120 W		24 V	5 A	6 A	40 × 125 × 117.8		S8VK-G12024				
240.14		24 V	10 A	12 A	60 × 125 × 145 6		S8VK-G24024				
240 W		48 V	5 A	6 A	60 × 125 × 145.6		S8VK-G24048				
400 W		24 V	20 A	24 A	05 × 125 × 145 6		S8VK-G48024				
480 W		48 V	10 A	12 A	95 × 125 × 145.6		S8VK-G48048				

## S8VK-T

### **List of Models**

						Place a check for the	tem:	s you're interested in.
	Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Dimensions: $W \times H \times D$ (mm)	V	Model
	120 W	2-phase		5 A	6 A	$40\times125\times117.8$		S8VK-T12024
	240 W	380 to 480 VAC  / Allowable range: \		10 A	12 A	60 × 125 × 145.6		S8VK-T24024
		340 to 576 VAC						
		3-phase 380 to 480 VAC			20 A 24 A	95 × 125 × 145.6		
	480 W	( Allowable range: ) 320 to 576 VAC		20 A				S8VK-T48024
		450 to 600 VDC						
		( Allowable range: 450 to 810 VDC* )	24 V					
		2-phase 380 to 480 VAC						
	060144	( Allowable range: ) 340 to 576 VAC		32 A	_			COVIL TOCO24
	960 W	3-phase 380 to 480 VAC		40.4		135 × 125 × 175.6		S8VK-T96024
		( Allowable range: ) 320 to 576 VAC		40 A	48 A			

<sup>\*</sup>Refer to the datasheet of each product for information on which standards are applicable when DC input is used.

## S8VS-A

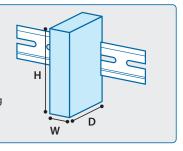
#### **List of Models**

								Place a check for the i	tem	s you're interested in.
	Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Alarm output*2	UL Class 2 output	Dimensions: W × H × D (mm)	V	Model (screw terminal block)
	60 W			2.5 A		_	Yes	40 × 95 × 103.3		S8VS-06024A
				3.75 A		Sinking		50 × 115 × 116.2		S8VS-09024A
	00.14/					Sinking	Yes			S8VS-09024AS
	90 W					Sourcing				S8VS-09024AP
		100 to 240 VAC				Sourcing	Yes			S8VS-09024APS
	120 W	( Allowable range: 85 to 264 VAC, 80 to 370 VDC*1		5 A		Sinking				S8VS-12024A
			24 V			Sourcing				S8VS-12024AP
	180 W	. 00 10 370 VDC 7	24 V	7.5 A		Sinking		75 445 4000		S8VS-18024A
	180 W					Sourcing		75 × 115 × 120.3		S8VS-18024AP
	240 W			10 A		Sinking		100 × 115 × 120.2		S8VS-24024A
	240 W			10 A		Sourcing		100 × 115 × 120.2		S8VS-24024AP
	480 W	100 to 240 VAC  ( Allowable range: ) 85 to 264 VAC		20 A	30 A (200 VAC)	Sinking/ Sourcing		150 × 115 × 122.2		S8VS-48024A

<sup>\*1.</sup> The range for compliance with EU Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).
\*2. In the Alarm output column, sinking indicates an emitter COM and sourcing indicates a collector COM.

### **About dimensions shown**

In the case of standard mounting, the width (W) and height (H) are given with the distance from the DIN rail serving as the depth (D).



## S8FS-G

#### **List of Models**

• With cover/Direct-mounting type Place a check for the items you're interested in.										
	Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Built-in fan	Dimensions: W × H × D (mm)	Model			
			5 V	3 A			S8FS-G01505C			
	15 W		12 V	1.3 A			S8FS-G01512C			
	13 00		15 V	1 A			S8FS-G01515C			
			24 V	0.65 A		35 × 82 × 99	S8FS-G01524C			
			5 V	6 A		35 X 82 X 99	S8FS-G03005C			
	30 W		12 V	3 A			S8FS-G03012C			
	30 W		15 V	2.4 A			S8FS-G03015C			
			24 V	1.5 A			S8FS-G03024C			
		100 to 240 VAC	5 V	8 A *1			S8FS-G05005C			
	50 W	( Allowable range: 85 to 264 VAC, 80 to 370 VDC*,*4	12 V	4.3 A		36 × 97 × 99	S8FS-G05012C			
	30 W		15 V	3.5 A	No		S8FS-G05015C			
			24 V	2.2 A			S8FS-G05024C			
			5 V	16 A *2			S8FS-G10005C			
	100 W		12 V	8.5 A		38 × 97 × 129	S8FS-G10012C			
	100 W		15 V	7 A		36 × 97 × 129	S8FS-G10015C			
			24 V	4.5 A			S8FS-G10024C			
			5 V	21 A *3			S8FS-G15005C			
			12 V	13 A			S8FS-G15012C			
	150 W		15 V	10 A		38 × 97 × 159	S8FS-G15015C			
			24 V	6.5 A			S8FS-G15024C			
			48 V	3.3 A			S8FS-G15048C			
		100 to 240 VAC	12 V	25 A			S8FS-G30012C			
	300 W	, Allowable range: \	15 V	20 A		41 × 102 × 170	S8FS-G30015C			
	300 W	85 to 264 VAC,	24 V	14 A		41 X 102 X 170	S8FS-G30024C			
		120 to 370 VDC*	48 V	7 A	Yes		S8FS-G30048C			
		100 to 240 VAC	12 V	50 A	162		S8FS-G60012C			
	600 W	/ Allowable range: \	15 V	40 A		61 × 120 × 190	S8FS-G60015C			
	000 W	85 to 264 VAC,	24 V	27 A		01 X 120 X 190	S8FS-G60024C			
		120 to 350 VDC*, *4	48 V	13 A			S8FS-G60048C			

Note 1. Front-mounting is not possible. To mount a Power Supply from the front, purchase a DIN Rail-mounting Power Supply and a Front-mounting Bracket (sold separately). \*1. The output power is 40 W. \*2. The output power is 80 W. \*3. The output power is 105 W. \*4. Applicable to products produced from May 2018.

●With cover/Direct-mounting type (Connector type)						Place a check for the items you're interested in.			
	Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Built-in fan	Dimensions: $W \times H \times D$ (mm)	<b>V</b>	Model	
	15 W	30 W 100 to 240 VAC / Allowable range: \	24 V	0.65 A	No	35 × 82 × 99		S8FS-G01524CE	
	30 W			1.5 A				S8FS-G03024CE	
	50 W			2.2 A		36 × 97 × 99		S8FS-G05024CE	
	100 W			4.5 A		38 × 97 × 129		S8FS-G10024CE	
	150 W	- 00 to 370 VDC		6.5 A		38 × 97 × 159		S8FS-G15024CE	

*1. Applicable to products produced from May 2018.									
With cover/DIN	Place a check for the	for the items you're interested in.							
	Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Built-in fan	Dimensions: W × H × D (mm)	Model		
	15 W	100 to 240 VAC ( Allowable range: 85 to 264 VAC, 80 to 370 VDC*.**)	5 V	3 A			S8FS-G01505CD		
			12 V	1.3 A			S8FS-G01512CD		
			15 V	1 A			S8FS-G01515CD		
			24 V	0.65 A	No	36.2 × 82 × 117.7	S8FS-G01524CD		
			5 V	6 A		30.2 × 82 × 117.7	S8FS-G03005CD		
	30 W		12 V	3 A			S8FS-G03012CD		
	30 W		15 V	2.4 A			S8FS-G03015CD		
			24 V	1.5 A			S8FS-G03024CD		
	50 W		5 V	8 A *1		37.2×97×117.7	S8FS-G05005CD		
			12 V	4.3 A			S8FS-G05012CD		
			15 V	3.5 A			S8FS-G05015CD		
			24 V	2.2 A			S8FS-G05024CD		
	100 W		5 V	16 A *2		39.2 × 97 × 147.7	S8FS-G10005CD		
			12 V	8.5 A			S8FS-G10012CD		
			15 V	7 A			S8FS-G10015CD		
			24 V	4.5 A			S8FS-G10024CD		
	150 W		5 V	21 A *3		39.2 × 97 × 177.7	S8FS-G15005CD		
			12 V	13 A			S8FS-G15012CD		
			15 V	10 A			S8FS-G15015CD		
			24 V	6.5 A			S8FS-G15024CD		
			48 V	3.3 A			S8FS-G15048CD		
		100 to 240 VAC	12 V	25 A			S8FS-G30012CD		
	300 W	( Allowable range: 85 to 264 VAC, 120 to 370 VDC*	15 V	20 A	]	42.5 × 102 × 201	S8FS-G30015CD		
			24 V	14 A			S8FS-G30024CD		
			48 V	7 A	Yes		S8FS-G30048CD		
	600 W	100 to 240 VAC	12 V	50 A			S8FS-G60012CD		
		/ Allowable range: \	15 V	40 A		62.5 × 120 × 221	S8FS-G60015CD		
		85 to 264 VAC, 120 to 350 VDC*	24 V	27 A		62.5 × 120 × 221	S8FS-G60024CD		
			48 V	13 A			S8FS-G60048CD		

<sup>\*1.</sup> The output power is 40 W. \*2. The output power is 80 W. \*3. The output power is 105 W. \*4. Applicable to products produced from May 2018.

## S8JX-P

### **List of Models**

●Front-mountin	with mounting brac	Place a check for the items you're interested in.							
	Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Built-in fan	Dimensions: $W \times H \times D$ (mm)		Model
	300 W	100 to 240 VAC Allowable range: 85 to 264 VAC, 80 to 370 VDC*	5 V	60 A	_	Yes	77.6 × 124.3 × 217.3		S8JX-P30005C
			12 V	27 A	_				S8JX-P30012C
			24 V	14 A	16.5 A (200 VAC)				S8JX-P30024C
			48 V	7 A					S8JX-P30048C
			5 V	120 A			116.6 × 124.3 × 217.3		S8JX-P60005C
	600 W		12 V	53 A					S8JX-P60012C
			24 V	27 A	31 A (200 VAC)				S8JX-P60024C
			48 V	13 A					S8JX-P60048C

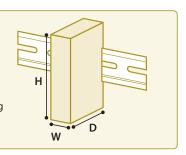
●Front-mounting	without mounting l	Place a check for the items you're interested in.							
	Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Built-in fan	Dimensions: $W \times H \times D$ (mm)	•	Model
	300 W	100 to 240 VAC Allowable range: 85 to 264 VAC, 80 to 370 VDC*	5 V	60 A	_	Yes	71 × 92 × 165		S8JX-P30005N
			12 V	27 A					S8JX-P30012N
			24 V	14 A	16.5 A (200 VAC)				S8JX-P30024N
			48 V	7 A					S8JX-P30048N
	600 W		5 V	120 A			110 × 92 × 164.8		S8JX-P60005N
			12 V	53 A					S8JX-P60012N
			24 V	27 A	31 A (200 VAC)				S8JX-P60024N
			48 V	13 A	_				S8JX-P60048N

●DIN rail mounti	ng type		Place a check for the items you're interested in.						
	Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Built-in fan	Dimensions: $W \times H \times D$ (mm)	•	Model
J	300 W	100 to 240 VAC Allowable range: 85 to 264 VAC, 80 to 370 VDC*	5 V	60 A	_	Yes	77.6 × 110.8 × 222.8		S8JX-P30005CD
			12 V	27 A	_				S8JX-P30012CD
			24 V	14 A	16.5 A (200 VAC)				S8JX-P30024CD
			48 V	7 A	_				S8JX-P30048CD
	600 W		5 V	120 A	_		116.6 × 110.8 × 222.8		S8JX-P60005CD
			12 V	53 A	_				S8JX-P60012CD
			24 V	27 A	31 A (200 VAC)				S8JX-P60024CD
			48 V	13 A	_				S8JX-P60048CD

 $<sup>{}^*\!</sup>The\ range\ for\ compliance\ with\ EU\ Directives\ and\ safety\ standards\ (UL,EN,etc.)\ is\ 100\ to\ 240\ VAC\ (85\ to\ 264\ VAC).$ 

### **About dimensions shown**

In the case of standard mounting, the width (W) and height (H) are given with the distance from the DIN rail serving as the depth (D).



Note: Do not use this document to operate the Unit.

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