OMRON Recommended Power Supply Guide

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.

*Image: The chameleon has evolved over the years to be able to change its body color to protect it from enemies and to catch prey.
This is the veiled chameleon, which lives in the Republic of Yemen. It grows to around 40 cm to 60 cm in length.

For changes to the products manufactured

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


Compact


Side-by-side mounting


Conforms to 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


Wide ambient 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.


Push-In Plus Terminal Block


Cover to prevent screw dropout


Cover to prevent foreign matter ingress

Industry's smallest class*2
General-purpose 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

*1. Life expectancy depends on certain conditions. Refer to the datasheet of each product for details.
*2. According to OMRON investigation in November 2016.

Selection is Easy.

For DIN rail-mounting

Compact | Side-by-side mounting | Conforms to transformer standards

Altitudes up to 3,000 m | Ambient operating temperature of -40°C to 70°C | 10 YEARS Life expectancy: 10 years

Push-In Plus Terminal Block | CERTIFIED

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

Power rating/output voltage					Model selection
	30 W	60 W	120 W	240 W	480 W	
24 V	●	●	●	●	●	→P.10 A

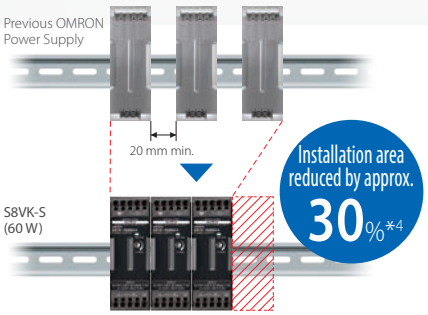
Saves Space, Allowing Control Panel Downsizing

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

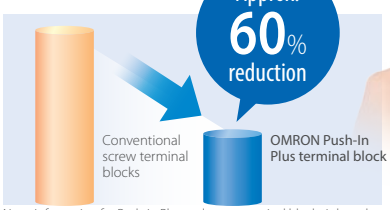
Cooling space between power supplies is not necessary, reducing the installation area. This enables greater flexibility in control panel design.



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.



Note: Information for Push-In Plus and screw terminal blocks is based on OMRON's actual measurement value data.

*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

Compact

Conforms to transformer standards

Altitudes up to 3,000 m

Ambient operating temperature of -20°C to 70°C

10 YEARS
Life expectancy: 10 years

Cover to prevent screw dropout

Cover to prevent foreign matter ingress

CERTIFIED

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	●	●	●	●	●		

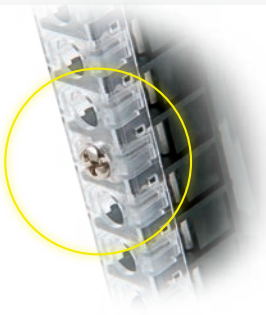
Model selection

- With cover/ Direct-mounting type → P.12 **E**
- With cover/ Direct-mounting type (Connector type) → P.12 **F**
- With cover/ DIN rail-mounting type → P.12 **G**

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.

S8VK-G

Power rating/output voltage							Model selection
	15 W	30 W	60 W	120 W	240 W	480 W	→P.10 B
48 V					●	●	
24 V	●	●	●	●	●	●	
12 V	●	●	●				
5 V	●	●					

Conforms to transformer standards

Ambient operating temperature of -40°C to 70°C

10 YEARS

Life expectancy: 10 years

CERTIFIED

DIN Rail Mounting, 3-Phase Input

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

S8VK-T

Power rating/output voltage					Model selection
	120 W	240 W	480 W	960 W	→P.10 C
24 V	●	●	●	●	

Conforms to transformer standards

Ambient operating temperature of -40°C to 70°C

10 YEARS

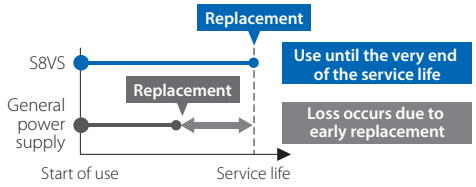
Life expectancy: 10 years

CERTIFIED

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.



Replacement time can be seen at a glance

S8VS-A

Power rating/output voltage	60 W	90 W	120 W	180 W	240 W	480 W
24 V	●	●	●	●	●	●

Model selection

→ P.11 D

Ambient operating temperature of -10°C to 60°C

10 YEARS
Life expectancy: 10 years

CERTIFIED

For Installation in Equipment, Low-voltage Detection Output

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

S8JX-P

Power rating/output voltage	300 W	600 W
48 V	●	●
24 V	●	●
12 V	●	●
5 V	●	●

Model selection

Front-mounting type (with mounting bracket) → P.13 H
Front-mounting type (without mounting bracket) → P.13 I
DIN rail mounting type → P.13 J

Ambient operating temperature of -10°C to 70°C

10 YEARS
Life expectancy: 10 years (excluding fan)

CERTIFIED

Function Comparison Table

DIN rail mounting Power Supply

S8VK-S

30 W/60 W 120 W 240 W 480 W

S8VK-G

15 W 30 W 60 W 120 W 240 W 480 W

		S8VK-S	S8VK-G
I/O connections	Push-In Plus*1	Yes	—
	Screw (Rise-up)*1	—	Yes
	Screw	—	—
	Connector	—	—
Mounting	DIN rail mounting	Yes (Side-by-side mounting possible*2)	Yes
	Direct-mounting type (screw)	See note 3.	See note 3.
Input voltage (Voltage range)	Single phase AC	85 to 264	85 to 264
	3-phase AC	—	—
	DC*4	90 to 350	90 to 350
Built-in fan		No	No
Boost current*5		Yes	Yes
Additional functions	Low-voltage detection	Yes (Only 240 W, 480 W)	—
	Remote control	—	—
	Remote sensing	—	—
	Maintenance forecast monitor	—	—
	Voltage and current display	—	—
Coated PCB*6		Yes	Optional models
Parallel operation*7		Yes	Yes
Ambient operating temperature*8		-40°C to 70°C	-40°C to 70°C
Standards	UL 508 CSA C22.2 No.107.1	Listing	Listing
	ANSI/ISA 12.12.01 CSA C22.2 No.213	Listing	Listing
	UL 1310 Class 2 output*10	Yes	Yes
	UL 60950-1 CSA C22.2 No.60950-1	Recognition (altitudes up to 3,000 m)	Recognition
	EN 60950-1	Yes (altitudes up to 3,000 m)	Yes
	EN 50178	Yes (altitudes up to 3,000 m)	Yes
	Overvoltage Category III (EN 50178)	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 DNV GL	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

*1. 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	S8FS-G	S8JX-P
 120 W 240 W 480 W 960 W	 60 W 90 W 120 W 180 W  240 W 480 W	 15 W/30 W 50 W 100 W  150 W 300 W 600 W	 300 W 600 W
—	—	—	—
Yes	—	—	—
—	Yes	Yes (Terminal block cover for preventing screw dropout)	Yes
—	—	Optional models	—
Yes	Yes	Yes	Yes
See note 3.	See note 3.	Yes	Yes
340 to 576	85 to 264	85 to 264	85 to 264
320 to 576	—	—	—
450 to 810 (DC input cannot be used for 960 W.)	80 to 370 (DC input cannot be used for 480 W.)	120 to 370 (300 W or less) 120 to 350 (600 W)	80 to 370
No	No	No (150 W or less) Yes (300 W, 600 W)	Yes
Yes	—	—	Yes
—	Yes (excluding 60 W)	—	Yes
—	—	Optional models (100 W or more, 24 V only)	Yes
—	—	—	Yes
—	Yes	—	—
—	7-segment LED	—	—
Optional models	Optional models	Optional models	Optional models
Yes	—	Optional models (600 W, 24 V only)	Yes
-40°C to 70°C	-10°C to 60°C	-20°C to 70°C	-10°C to 70°C
Listing	Listing	Listing *9	Listing (24 V, 48 V) Recognition (5 V, 12 V)
Listing	—	—	—
—	Yes	—	—
Recognition	Recognition	Recognition (altitudes up to 3,000 m)	Recognition
Yes	Yes	Yes (altitudes up to 3,000 m)	Yes
Yes	Yes	Yes (altitudes up to 3,000 m)	Yes
Yes	Yes	Yes	Yes
Yes	—	Yes	—
Yes	Yes	Yes*11	Yes
Class B	Class A	Class B	Class B
LR	—	—	—
SEMI F47	SEMI F47	SEMI F47	SEMI F47
3 years	3 years	3 years	5 years
10 years	10 years	10 years (including fan)	10 years (excluding fan)
P.10 C	P.11 D	P.12 E F G	P.13 H I J

*9. 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/S8VK-G/S8VK-T

S8VK-S

List of Models

A

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 × H × D (mm)		Model
30 W	100 to 240 VAC (Allowable range: 85 to 264 VAC, 90 to 350 VDC*)	24 V	1.3 A	1.56 A	32 × 90 × 86		S8VK-S03024
60 W			2.5 A	3 A	32 × 90 × 86		S8VK-S06024
120 W			5 A	6 A	55 × 90 × 86		S8VK-S12024
240 W			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

B

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 × H × D (mm)		Model
15 W	100 to 240 VAC (Allowable range: 85 to 264 VAC, 90 to 350 VDC*)	5 V	3 A	3.6 A	22.5 × 90 × 86		S8VK-G01505
		12 V	1.2 A	1.44 A			S8VK-G01512
		24 V	0.65 A	0.78 A			S8VK-G01524
30 W		5 V	5 A	6 A	32 × 90 × 86		S8VK-G03005
		12 V	2.5 A	3 A			S8VK-G03012
		24 V	1.3 A	1.56 A			S8VK-G03024
60 W		12 V	4.5 A	5.4 A	32 × 90 × 106		S8VK-G06012
		24 V	2.5 A	3 A			S8VK-G06024
120 W		24 V	5 A	6 A	40 × 125 × 117.8		S8VK-G12024
240 W		24 V	10 A	12 A	60 × 125 × 145.6		S8VK-G24024
		48 V	5 A	6 A			S8VK-G24048
480 W		24 V	20 A	24 A	95 × 125 × 145.6		S8VK-G48024
		48 V	10 A	12 A			S8VK-G48048

S8VK-T

List of Models

C

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 × H × D (mm)		Model
120 W	2-phase 380 to 480 VAC (Allowable range: 340 to 576 VAC) 3-phase 380 to 480 VAC (Allowable range: 320 to 576 VAC) 450 to 600 VDC (Allowable range: 450 to 810 VDC*)	24 V	5 A	6 A	40 × 125 × 117.8		S8VK-T12024
240 W			10 A	12 A	60 × 125 × 145.6		S8VK-T24024
480 W			20 A	24 A	95 × 125 × 145.6		S8VK-T48024
960 W	2-phase 380 to 480 VAC (Allowable range: 340 to 576 VAC)		32 A	—	135 × 125 × 175.6		S8VK-T96024
	3-phase 380 to 480 VAC (Allowable range: 320 to 576 VAC)		40 A	48 A			

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

S8VS-A

List of Models

D

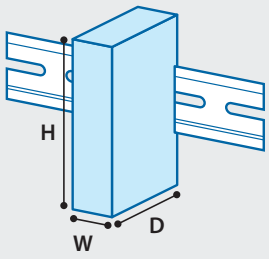
Place a check for the items you're interested in.

Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Alarm output*2	UL Class 2 output	Dimensions: W × H × D (mm)		Model (screw terminal block)
60 W	100 to 240 VAC (Allowable range: 85 to 264 VAC, 80 to 370 VDC*1)	24 V	2.5 A	—	—	Yes	40 × 95 × 103.3		S8VS-06024A
90 W			3.75 A		Sinking		50 × 115 × 116.2		S8VS-09024A
					Sinking	Yes			S8VS-09024AS
					Sourcing				S8VS-09024AP
					Sourcing	Yes			S8VS-09024APS
120 W			5 A		Sinking				S8VS-12024A
					Sourcing				S8VS-12024AP
180 W			7.5 A		Sinking		75 × 115 × 120.3		S8VS-18024A
					Sourcing				S8VS-18024AP
240 W			10 A		Sinking		100 × 115 × 120.2		S8VS-24024A
					Sourcing				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

*1. 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.

E

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, 120 to 370 VDC*)	5 V	3 A	No	35 × 82 × 99		S8FS-G01505C
		12 V	1.3 A				S8FS-G01512C
		15 V	1 A				S8FS-G01515C
		24 V	0.65 A				S8FS-G01524C
30 W		5 V	6 A				S8FS-G03005C
		12 V	3 A				S8FS-G03012C
		15 V	2.4 A				S8FS-G03015C
		24 V	1.5 A				S8FS-G03024C
50 W		5 V	8 A *1		36 × 97 × 99		S8FS-G05005C
		12 V	4.3 A				S8FS-G05012C
		15 V	3.5 A				S8FS-G05015C
		24 V	2.2 A				S8FS-G05024C
100 W		5 V	16 A *2		38 × 97 × 129		S8FS-G10005C
		12 V	8.5 A				S8FS-G10012C
		15 V	7 A				S8FS-G10015C
		24 V	4.5 A				S8FS-G10024C
150 W		5 V	21 A *3		38 × 97 × 159		S8FS-G15005C
		12 V	13 A				S8FS-G15012C
		15 V	10 A				S8FS-G15015C
		24 V	6.5 A				S8FS-G15024C
		48 V	3.3 A				S8FS-G15048C
300 W		12 V	25 A	Yes	41 × 102 × 170		S8FS-G30012C
		15 V	20 A				S8FS-G30015C
		24 V	14 A				S8FS-G30024C
		48 V	7 A				S8FS-G30048C
600 W	100 to 240 VAC (Allowable range: 85 to 264 VAC, 120 to 350 VDC*)	12 V	50 A		61 × 120 × 190		S8FS-G60012C
		15 V	40 A				S8FS-G60015C
		24 V	27 A				S8FS-G60024C
		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.

●With cover/Direct-mounting type (Connector type)

Place a check for the items you're interested in.

F

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, 120 to 370 VDC*)	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			6.5 A		38 × 97 × 159		S8FS-G15024CE

●With cover/DIN rail mounting type

Place a check for the items you're interested in.

G

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, 120 to 370 VDC*)	5 V	3 A	No	36.2 × 82 × 117.7		S8FS-G01505CD
		12 V	1.3 A				S8FS-G01512CD
		15 V	1 A				S8FS-G01515CD
		24 V	0.65 A				S8FS-G01524CD
30 W		5 V	6 A				S8FS-G03005CD
		12 V	3 A				S8FS-G03012CD
		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
300 W		12 V	25 A	Yes	42.5 × 102 × 201		S8FS-G30012CD
		15 V	20 A				S8FS-G30015CD
		24 V	14 A				S8FS-G30024CD
		48 V	7 A				S8FS-G30048CD
600 W	100 to 240 VAC (Allowable range: 85 to 264 VAC, 120 to 350 VDC*)	12 V	50 A		62.5 × 120 × 221		S8FS-G60012CD
		15 V	40 A				S8FS-G60015CD
		24 V	27 A				S8FS-G60024CD
		48 V	13 A				S8FS-G60048CD

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

S8JX-P

List of Models

●Front-mounting type (with mounting bracket)

Place a check for the items you're interested in.

H

Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Built-in fan	Dimensions: W × H × 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
600 W		5 V	120 A	—		116.6 × 124.3 × 217.3		S8JX-P60005C
		12 V	53 A	—				S8JX-P60012C
		24 V	27 A	31 A (200 VAC)				S8JX-P60024C
		48 V	13 A	—				S8JX-P60048C

●Front-mounting type (without mounting bracket)

Place a check for the items you're interested in.

I

Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Built-in fan	Dimensions: W × H × 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 mounting type

Place a check for the items you're interested in.

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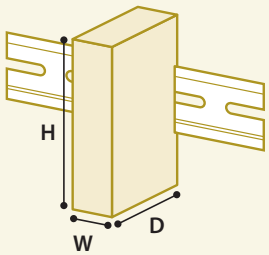
Power rating	Rated input voltage	Rated output voltage (DC)	Rated output current	Maximum boost current	Built-in fan	Dimensions: W × H × D (mm)		Model
300 W	100 to 240 VAC (Allowable range: 85 to 264 VAC, 80 to 370 VDC*)	5 V	60 A	—	Yes	77.6 × 110.8 × 222.8		S8JX-P30005CD
		12 V	27 A	—				S8JX-P30012CD
		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

*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).



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