

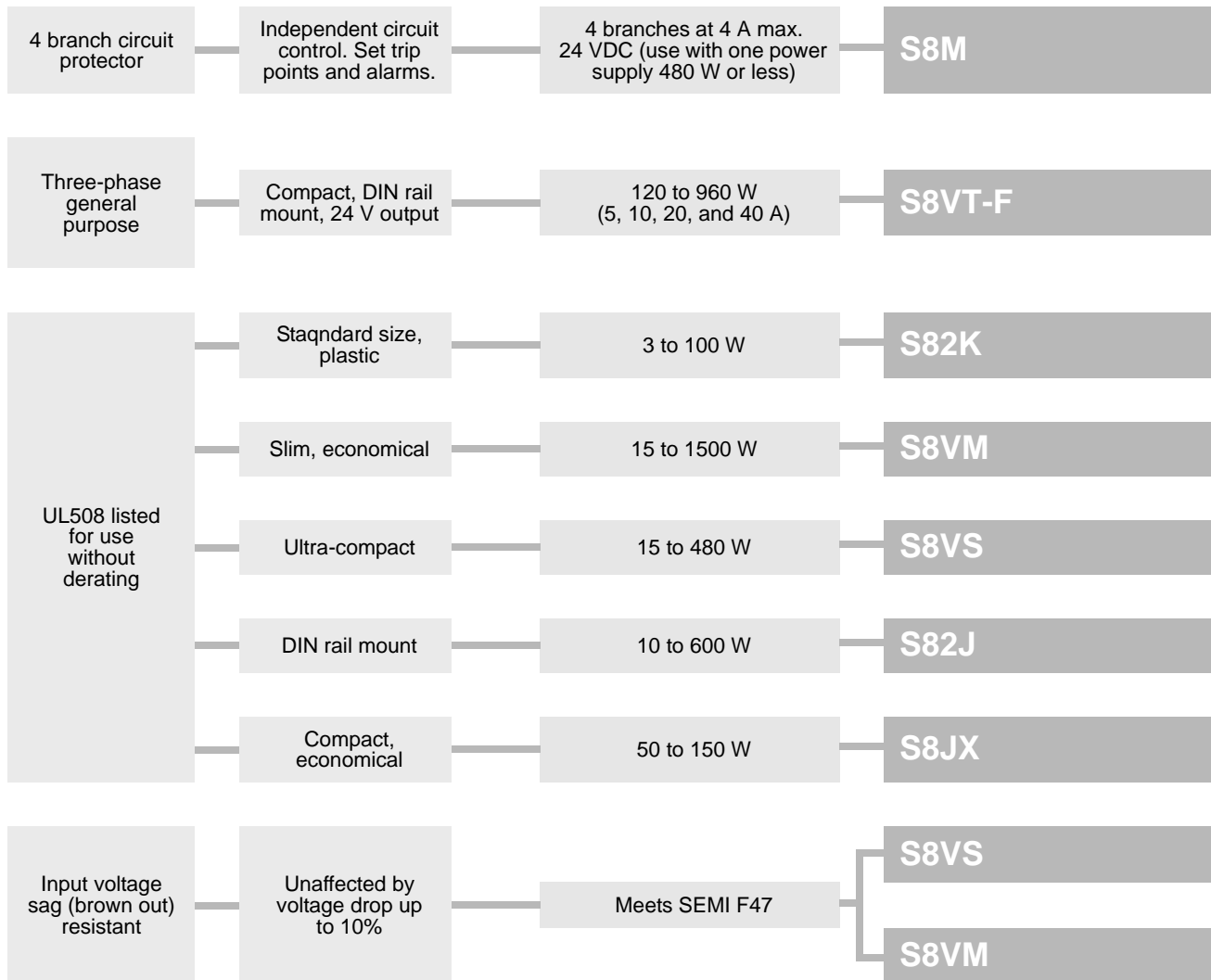
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Selection Guide

General purpose	Ultra-compact	15 to 60 W plastic enclosure 90 to 480 W metal and plastic enclosure	S8VS
	Slim, economical	15 to 1500 W	S8VM
	Standard size, plastic enclosure	3 to 100 W	S82K
	Metal covered or open frame, low cost	10 to 600 W	S82J
	Compact, economical	50 to 150 W	S8JX
High power	Uniform height, economical, alarms	Up to 1500 W	S8VM
	DIN rail mount	Up to 600 W	S82J
	Ultra compact	Up to 480 W	S8VS
Preventive maintenance	Service life remaining (maintenance forecast) monitor	60 to 480 W	S8VS-A
	Connected load operating time (run-time) monitor	60 to 480 W	S8VS-B
	Undervoltage alarms for momentary and gradual voltage drops	15 to 150 W	S8VM-AD
	Power failure alarm output (transistor) and LED indication	300 to 1500 W	S8VM

Selection Guide



To calculate your power requirements:
 $__ \text{VDC} \times __ \text{Amps (A)} = __ \text{Watts (W)}$ (e.g. 5 VDC X 60 A = 300 W)
 Select a power supply that offers enough power for future expansion and peak start-up current.

All Omron Power Supplies feature: Universal Input (100 to 240 VAC), Power Factor Correction, and RoHS Compliance.

Power Supplies

OMRON

Selection Guide

Single-Phase Power Supplies S8VS



Small Sized, DIN Rail Mount Power Supplies with Smart Display

- Ultra-compact size with wide power range of 15 - 480 W, saves panel space
- Unique LED displays for diagnostics (60 - 480 W models)
 - Only Omron's S8VS power supplies shorten troubleshooting time by offering a digital display and an alarm output for preventive maintenance.
 - Power supply service life (maintenance forecast) monitor (-A type) or connected load operating time (Run-time) monitor (-B type)
- Protect critical processes against line power brownouts — All models maintain constant output even with a 10% input voltage sag — meets SEMI F47 requirements
- RoHS compliant
- Power Factor Correction function standard
- Meets international safety standards: UL, cUL, UL508 Listed, SEMI F47 and CE
- Class 2 output (90 W models and below)
- 3-year warranty on all models
- Alarm outputs (90 - 480 W LED models)
 - 1 for undervoltage output and 1 for Lifetime or Run-time monitor



Smart Display Shows At-A-Glance Status of:

<p>Output voltage</p>	<p>Output current</p>	<p>Peak hold current</p>	
<p>Remaining service life</p>		<p>or</p>	<p>Total run-time of the load</p>

Standard Models

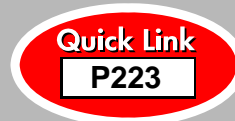
Input voltage	Power rating	Output voltage	Output current	Alarm output	Dimensions H x W x D mm	Model
100 to 240 VAC, 50/60 Hz	15 W	5 VDC	2.0 A	—	85 x 22.5 x 96.4	S8VS-01505
		12 VDC	1.2 A			S8VS-01512
		24 VDC	0.65 A			S8VS-01524
	30 W	5 VDC	4.0 A			S8VS-03005
		12 VDC	2.5 A			S8VS-03012
		24 VDC	1.3 A			S8VS-03024
	60 W	24 VDC	2.5 A		95 x 40 x 108.3	S8VS-06024
						S8VS-06024A
	90 W	24 VDC	3.75 A		115 x 50 x 121.3	S8VS-09024
						S8VS-09024S (See note 3)
						S8VS-09024A
	120 W	5 A	—		Sinking	S8VS-09024B
				S8VS-12024		
	180 W	7.5 A	—	Sinking	S8VS-12024A	
					S8VS-12024B	
	240 W	10 A	—	Sinking	S8VS-18024	
					S8VS-18024A	
	480 W	20 A	—	Sinking/Sourcing	S8VS-18024B	
					S8VS-24024	
					S8VS-24024A	
S8VS-24024B						
480 W	20 A	—	Sinking/Sourcing	S8VS-48024		
				S8VS-48024A		
					S8VS-48024B	

- Note:**
1. Part numbers ending with A feature the Smart Display with Lifetime Monitor.
 2. Part numbers ending with B feature the Smart Display with Run-time Monitor.
 3. Specific 90 W model with Class 2 output.

Accessories

Description	Appearance	Height	Channel depth	Length	Model
Mounting track		35 mm	7.3 mm	0.5 meter	PFP-50N
				1.0 meter	PFP-100N
			16.0 mm	1.0 meter	PFP-100N2
End plate		11.5 mm	10 mm	50 mm	PFP-M

Single-Phase Power Supplies S82K



DIN Rail Mount Switching Power Supplies in Plastic Housing

- All models UL508 listed for use at rated output without derating
- Class 2 approved on all models below 100 W
- Undervoltage indicators on all 90 W and 100 W
- Parallel operation capability (100 W)
- Finger-safe terminal block with cover according to VDE0106/P100
- RoHS compliant
- 3-year warranty



Specifications

- Universal input voltage range: 100 to 240 VAC
- Power ratings: 3 W to 100 W
- Output voltages: 5 V, 12 V, 15 V, 24 V
- Current output: 0.13 A to 5 A
- Efficiency: 60% to 80% (varies by specifications)

Single Output Plastic Body Power Supplies

Input voltage	Power rating	Output voltage	Output current	Function configuration			Dimensions H x W x D mm	Model
				Output	Under-voltage alarm	PFC		
100 to 240 VAC, 50/60 Hz	3 W	5 VDC	0.6 A	Single output	Indicator only	No	75 x 37.5 x 65	S82K-00305
		12 VDC	0.25 A					S82K-00312
		24 VDC	0.13 A					S82K-00324
	7.5 W	5 VDC	1.5 A					S82K-00705
		12 VDC	0.6 A					S82K-00712
		24 VDC	0.3 A					S82K-00724
	15 W	5 VDC	2.5 A				75 x 45 x 91	S82K-01505
		12 VDC	1.2 A					S82K-01512
		24 VDC	0.6 A					S82K-01524
	30 W	5 VDC	5.0 A				75 x 90 x 91	S82K-03005
			2.5 A					S82K-03012
			1.3 A					S82K-03024
	50 W	24 VDC	2.1 A				75 x 90 x 91	S82K-05024
			3.75 A					S82K-09024
4.2 A			S82K-10024					
120/240 VAC selectable	90 W			Indicator and output		75 x 145 x 91		
	100 W							

Accessories

Description	Appearance	Height	Channel depth	Length	Model
Mounting track		35 mm	7.3 mm	0.5 meter	PFP-50N
				1.0 meter	PFP-100N
			16.0 mm	1.0 meter	PFP-100N2
End plate		11.5 mm	10 mm	50 mm	PFP-M

Single-Phase Power Supplies

S8VM



Reliable DC Source with Unique Undervoltage Alarm

- Slim DIN-rail mounting units help downsize machine panels
- Overvoltage protection (standard) of 105% to 160% rated load current
- Undervoltage alarm option signals an error and helps identify the source
- Terminal block protects fingers against electric shock
- Enclosed and open frame models available
- RoHS compliant
- Class 1, Div 2 rated for hazardous areas
- Power Factor Correction function standard
- Meets international safety standards:
UL 508, 60950-1, 1604 (Class I/Division 2);
CSA C22.2 No. 14, No. 60950-1, No. 213 (Class I/Division 2);
EN50178, EN60950-1



Undervoltage Alarm Option Models



S8VM-01524AD



S8VM-03024AD



S8VM-05024AD



S8VM-10024AD



S8VM-15024AD

The S8VM Undervoltage Alarm Function distinguishes between deterioration of the Power Supply and abnormal load or input as a cause of the error. The S8VM maintains the error history and even indicates the past errors with its LEDs.



- Two undervoltage alarm indicators:
 - DC LOW1 identifies momentary voltage drops of 2.7 V lower than the voltage output.
 - DC LOW2 identifies gradual voltage deterioration from age, when the output voltage drops to 20 V or lower.
- A transistor alarm output signals voltage drop errors on 50-, 100- and 150-W models:
 - NPN open collector, 50 mA max. at 30 VDC
 - ON-state residual voltage: 2 V max.
 - OFF-state leakage current: 0.1 mA max.

Input voltage	Power rating	Output voltage	Output current	Efficiency	Voltage adj. range	Output ripple (max.)	Dimensions H x W x D mm	Model
100 to 240 VAC, 50/60 Hz	15 W	24 VDC	0.65 A	80% min.	-10% to 20%	1.0% (p-p)	84.5 x 33.5 x 84.5	S8VM-01524AD
	30 W		1.3 A	81% min.			84.5 x 33.5 x 99.5	S8VM-03024AD
	50 W		2.2 A	80% min.		0.75 (p-p)	84.5 x 33.5 x 124.5	S8VM-05024AD
	100 W		4.5 A	82% min.			84.5 x 35 x 164.5	S8VM-10024AD
	150 W		6.5 A	83% min.			84.5 x 44 x 164.5	S8VM-15024AD

Standard Models (15 - 150 W)

Input voltage	Power rating	Output voltage	Output current	Efficiency	Voltage adj. range	Output ripple (max.)	Dimensions H x W x D mm	Model
100 to 240 VAC, 50/60 Hz	15 W	5 VDC	3.0 A	75% min.	-20% to +20%	3.2% (p-p)	84.5 x 33.5 x 84.5	S8VM-01505CD
		12 VDC	1.3 A	78% min.		1.5% (p-p)		S8VM-01512CD
		24 VDC	0.65 A	80% min.		1.0% (p-p)		S8VM-01524CD
	30 W	5 VDC	6.0 A	75% min.		3.2% (p-p)	84.5 x 33.5 x 99.5	S8VM-03005CD
		12 VDC	2.5 A	79% min.		1.5% (p-p)		S8VM-03012CD
		24 VDC	1.3 A	81% min.		1.0% (p-p)		S8VM-03024CD
	50 W	5 VDC	10.0 A	80% min.		3.2% (p-p)	84.5 x 33.5 x 124.5	S8VM-05005CD
		12 VDC	4.3 A	79% min.		1.5% (p-p)		S8VM-05012CD
		24 VDC	2.2 A	80% min.		0.75% (p-p)		S8VM-05024CD
	100 W	5 VDC	20.0 A	81% min.		3.2% (p-p)	84.5 x 35 x 164.5	S8VM-10005CD
		12 VDC	8.5 A	81% min.		1.5% (p-p)		S8VM-10012CD
		24 VDC	4.5 A	82% min.		0.75% (p-p)		S8VM-10024CD
	150 W	5 VDC	27.0 A	81% min.		3.2% (p-p)	84.5 x 44 x 164.5	S8VM-15005CD
		12 VDC	12.5 A	81% min.		1.5% (p-p)		S8VM-15012CD
		24 VDC	6.5 A	83% min.		0.75% (p-p)		S8VM-15024CD

Standard Models (300, 600, 1500 W)



S8VM-300□□□C



S8VM-600□□□C



S8VM-1500□□□C

Additional Features (300 - 1500 W models)

- Power failure alarm indication with transistor output
- Series and parallel operation (up to 2 units)
- Remote sensing and remote control functions

Input voltage	Power rating	Output voltage	Output current	Efficiency	Voltage adj. range	Output ripple (max.)	Dimensions H x W x D mm	Model
100 to 240 VAC, 50/60 Hz	300 W	24 VDC	14 A; Peak current: 16.5 A (200 VAC)	81% min.	-20% to 20%	1.0% (p-p)	83.5 x 62.5 x 188	S8VM-30024C
	600 W		27 A; Peak current: 31 A (200 VAC)	81% min.			83.8 x 101.8 x 192	S8VM-60024C
	1500 W		65 A (100 VAC), 70 A (200 VAC); Peak current: 105 A (200 VAC)	82% min.		0.75% (p-p)	82 x 126.5 x 327	S8VM-15224C

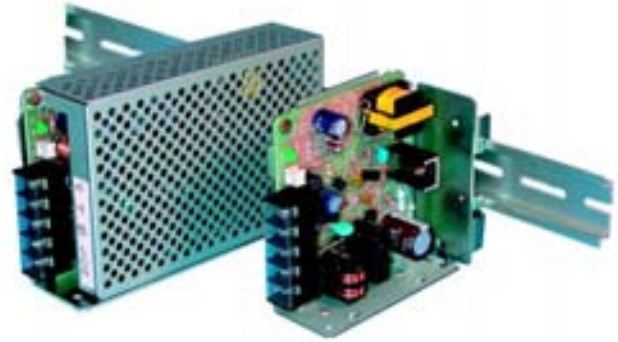
Note: Optional mounting brackets available.

Single-Phase Power Supplies **S82J**



DIN Rail Mount Industrial Power Supplies

- Universal supply voltage: 100 to 240 VAC
- Power ratings from 10 to 600 W
- Wide range of output voltages: 5 V, 12 V, 15 V, or 24 V
- Current output from 0.5 A to 20 A
- Select from open-frame and covered types
- UL508 approval
- Class 2 approval available for models below 100 W
- Multiple mounting options available
- RoHS compliant
- 3-year warranty



Single-Phase Power Supplies **S8JX**



Compact and Economical Industrial Power Supply

- Universal supply voltage: 100 to 240 VAC
- Power ratings: 50, 100, and 150 W
- Wide range of output voltages: 5 V, 12 V, or 24 V
- Current output from 2.1 A to 20 A
- Select from open-frame and covered types
- Multiple mounting options available
- UL508 approval
- RoHS compliant
- 2-year warranty



Three-Phase Power Supplies

S8VT-F



Compact 3-Phase Input Power Supply

- 3-phase input 340-576 VAC
- 5, 10, 20 and 40A models; 24 VDC output
- High stability, low ripple and noise level. Conforms to EN61000-3-2
- Efficiency: 86% to 91% (varies per model)
- Compact design and convection air cooled - no fans
- Overload and overvoltage protection included
- Parallel and series operation possible
- RoHS compliant



Ordering Information

Three-Phase Power Supplies

Input voltage	Power rating	Output voltage	Output current	Model
400 to 500 VAC 3-phase	120 W (See note 1)	24 V	5 A	S8VT-F12024E
	240 W (See note 1)		10 A	S8VT-F24024E
	480 W		20 A	S8VT-F48024E
	960 W		40 A	S8VT-F96024E

Note: 1. Approvals pending at time of printing for 120 W and 240 W models, please consult your Omron representative for availability.

DC Digital Multi-Circuit Protector S8M



Flexible DC Circuit Protector with a Wide Array of Displays, Alarm Outputs, and Functions

- Reduce installation time and costs for powering and protecting your panels
- Four circuit protectors in one package
- S8M-CP04-RS model provides UL Class 2 compliant output on 4 branches (3.8 A per branch)
- Simple setting of current tripping values for each branch output in .1 A units, between .5 A and 4 A
- Easy set-up of startup and shutdown sequences for optimized power supply requirements and stable operation
- Cutoff performance that eliminates the effect on other branch outputs
- Monitoring and display of input voltage, output current, peak hold current, total input current, load run-time, internal panel temperature
- Signal output for alarm and external signal tripping function
- Models with RS-232C communication terminal for set-up and monitoring with free software, also remote monitoring and control operations from a network



Specifications

- Input: DC only, 19.2 to 26.4 V
- Output: 4 branches
- Output current tripping setting range: 0.5 to 4.0 A (in 0.1 A units), RS type 0.5 to 3.8 A
- Tripping speed: 100 ms or 20 ms selectable
- Ambient temperature: -10° to 60°C with de-rating
- Approved standards: UL508 listing, UL60950, cUL, VDE, CE
- Approved standards: UL508 listing Class 2 per UL1310 (┌-RS type only), UL60950, cUL, VDE, CE
- H x W x D inches (mm): 4.53 x 2.95 x 3.7 (115 x 75 x 94)
- RoHS compliant and backed by a 3-year warranty

Description	Model
Standard model	S8M-CP04
Includes RS-232 communication terminal	S8M-CP04-R
UL Class 2 compliant outputs and RS-232 communication terminal	S8M-CP04-RS

