

Panel Mount SMPS



SPA-400-24 Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Major Features

- Built-in over-current protection circuit, output short-circuit protection circuit, and over-voltage protection circuit
- EN 60950 (Safety of information technology equipment) compliant
- EN 50178 (Electronic equipment for use in power installations) compliant
- EN 61000-6-2 (EMC: immunity for industrial environments) compliant
- EN 61000-6-4 (EMC: emission standard for industrial environments) compliant
- Output voltage: 24 VDC \equiv
- Output power: 400 W

Specifications

Model	SPA-400-24	
Output power	400.8 W	
Input condition	Voltage ⁰¹⁾	200 - 240 VAC \sim (permissible voltage: 190 - 264 VAC \sim)
	Frequency	50 / 60 Hz
	Efficiency ⁰²⁾ (typical)	\geq 85% (10 min after power ON)
	Current consumption ⁰²⁾ (typical)	\leq 4.6 A
	Leakage current ⁰²⁾ (typical)	\leq 1 mA
Output characteristics	Inrush current protection ⁰²⁾ (typical)	40 A
	Voltage	24 VDC \equiv
	Current	16.7 A
	Voltage adjustment range ⁰³⁾	$\leq \pm 5\%$
	Input variation	$\leq \pm 0.5\%$
	Load variation	$\leq \pm 1\%$
	Temperature drift	360 mV
Protection	Ripple noise	\leq 290 mV
	Start-up time ⁰²⁾ (typical)	1,800 to 2,300 ms
	Hold time ⁰²⁾ (typical)	\geq 17 ms
	Over-current protection	110 to 160% (recovers automatically after the cause for over current is removed)
Product Components	Over-voltage protection ⁰³⁾	27 - 33 VDC \equiv
	Temperature rising limit	Yes
	Remote control	Yes (output voltage ON for shorting, output voltage OFF for open)
Approval	• Product • Instruction manual	
Unit weight (package)	CE \approx 885 g (\approx 975 g)	
Indicator	Output indicator (green)	
Insulation resistance	\geq 100 M Ω (at 500VDC \equiv megger, between all input terminals and F.G.)	
Dielectric strength	3,000 VAC \sim 50/60 Hz for 1 min (between all input and output terminals)	
	2,000 VAC \sim 50/60 Hz for 1 min (between all input terminals and F.G.)	
Vibration	0.75 mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours	
EMS	EN61000-6-2 compliant	
EMI	EN61000-6-4 compliant	
Safety standards	EN60950, EN50178	
Ambient temperature	-10 to 50 °C, storage: -20 to 75 °C (no freezing or condensation)	
Ambient humidity	20 to 90%RH, storage: 20 to 90%RH (no freezing or condensation)	
Fan life cycle	70,000 hours (based on 40 °C of ambient temperature)	

01) Since there is no separate input overvoltage protection for the voltage over the rated input voltage range, supplying overvoltage may result in product damage.

02) It is for 220 VAC \sim , 100% load.

03) Use the output voltage adjusting volume within the voltage variable range. If the output exceeds the output voltage range, overvoltage protection function is activated and the output is cut off.

Dimensions

- Unit: mm, refer to the Autonics website for the details of the product.

