

# 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

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

