Product Overview

Ту	ре		DIN rail mo	unt type S	witching I	Mode Pov	wer Supply	(SMPS)							
Model			SP-0305 SP-0312 SP-0324												
Appearances & Dimensions			[W37.5×H75×L65mm]												
Οι	tput power		3W												
ont	Voltage		100-240VAC (permissible voltage: 85-264VAC)												
	Frequency		50/60Hz												
Ξ	Frequency Current consump	tion	n Max. 0.15A												
	Efficiency		67 to 74%												
Output	Voltage		5VDC 12VDC								24VDC				
	Current		0.6A 0.25A								0.13A				
	Voltage adjustmen														
	Ripple		Max. 5%												
	Voltage fluctuation		Max. 0.5% (at 85-264VAC 100% load)												
	er-current protection	on	Min. 110%												
Re	eference		P-4 to 7												
Ту	ne	Genera	al-purpose S	Switcina M	ode Powe	r Supply	(SMPS)			,					
	odel	SPA- 030-05	SPA-	SPA- 030-12	SPA- 050-12	SPA- 030-24	SPA- 050-24	SPA- 075-05	SPA- 100-05	SPA- 075-12	SPA- 100-12	SPA- 075-24	SPA- 100-24		
		CE	SPA-030/050 Series SPA-075/100 Series												
&	pearances					rin 🕴 🖭	1		TO A						

				SPA-030/050 Series				SPA-075/100 Series								
Appearances & Dimensions																
		[W97×H40×L120mm]							[W97×H42×L160mm]							
Ou	tput power	30W	50W	30W	50W	30W	50W	75W	100W	75W	100W	75W	100W			
	Voltage ^{*5}	100-240\	VAC (perm	issible vo	ltage: 85-2	264VAC)		100-120/200-240VAC (permissible voltage: 85-132/170-264VAC) switching type								
Input	Frequency	50/60Hz														
Ι'n	Efficiency*1	Min. 60%	Min. 67%	Min. 74%	, b	Min. 809	6	Min. 70%	6	Min. 78%	Min. 72%	Min. 78%	Min. 80%			
	Current consumption*1	Max. 1.2A	Max. 1.6A	Max. 1.0A	Max. 1.4A	Max. 0.8A	Max. 1.1A	Max. 3.0A		Max. 2.0A	Max. 3.0A	Max. 2.0A	Max. 2.5A			
	Voltage	5VDC		12VDC 24V				5VDC		12VDC		24VDC				
	Current	6A	10A	2.5A	4.2A	1.5A	2.1A	15A	20A	6.3A	8.5A	3.2A	4.2A			
		4 ±5%														
Output	Input fluctuation ^{*2}	Max. ±0.5%														
Ont	Load fluctuation*1	Max. ±2% Max. ±1%						Max. ±2% Max. ±1%								
	Ripple ^{*1}	Max. ±1%	%													
	Starting time ^{*1}	Max. 200ms Max. 150ms						Max. 250ms								
	Holding time ^{*1}	Min. 10m	ns						3	Min. 10ms	Min. 5ms	Min. 10m	S			
Protect function	Inrush current protection	Max. 30A /Max.40A	(100VAC) (240VAC)	Max. 20/	A (100VAC	;)			(100VAC)/ (240VAC)	(100VAC) /Max. 40A		Max. 35A Max. 40A				
tect fu	Over-current protection	Min. 110%							Min. 105% Min. 110%							
Prof	Over-voltage protection *3	_						6.5V ±10		16V ±10% 30V ±10%						
	Short protection	Max. 5ms							ms	Max. 5ms Max. 10ms Max. 5ms						
Re	ference	P-8 to 11														

*1: 100% load for rated input voltage (100VAC).

SPA-100-05 is under 100% of load for [100-120/200-240VAC (100-132/190-264VAC)].

*3: Rated input voltage (100VAC).
*4: Vary voltage by output voltage adjuster, it is changed over voltage adjustment range (±5%).

%5: The rated input voltage of SPA-100-05 is 100-120/200-240VAC (100-132/190-264VAC).

Product Overview

Model	89% 022%		
Appearances & Dimensions	39%		
Output power 15W 15.6W 25W 30W 31.2W 60W 62.4W 96W 120W 240W Voltage 100-240VAC (permissible voltage: 85-264VAC/120-370VDC) Frequency 50/60Hz Efficiency*1 100VAC 77% 80% 83% 77% 82% 84% 81% 84% 85% 82% 82% 85% 87% 89% 8 [Typical) 240VAC 76% 79% 82% 78% 83% 85% 87% 85% 85% 85% 88% 90% 92% 9 Power factor**1 — — — Min. 0.9 Min. 0.9 Min. 0.9 Current consumption**1 100VAC 0.35A 0.35A 0.35A 0.34A 0.56A 0.63A 0.63A 0.63A 1.24A 1.21A 1.19A 1.19A 1.19A 1.49A 1.43A 2.76A 2.71A 2	39%		
Voltage 100-240VAC (permissible voltage: 85-264VAC/120-370VDC) Frequency 50/60Hz Efficiency*1 100VAC 77% 80% 83% 77% 82% 84% 81% 84% 85% 82% 82% 85% 87% 89% 81% 84% 81% 84% 85% 82% 85% 87% 89% 81% 84% 81% 84% 85% 82% 85% 87% 89% 81% 84% 85% 8			
Frequency 50/60Hz Efficiency*1 100VAC 77% 80% 83% 77% 82% 84% 81% 84% 85% 82% 82% 85% 87% 89% 8 [Typical) 240VAC 76% 79% 82% 78% 83% 85% 83% 86% 87% 85% 85% 88% 90% 92% 9 Power factor*1 — — Min. 0.9 Min. 0.9 Current consumption*1 100VAC 0.35A 0.35A 0.35A 0.34A 0.56A 0.63A 0.63A 1.24A 1.21A 1.19A 1.19A 1.49A 1.43A 2.76A 2.71A 2			
Efficiency*1 100VAC 77% 80% 83% 77% 82% 84% 81% 84% 85% 82% 82% 85% 87% 89%			
To (Typical) 240VAC 76% 79% 82% 78% 83% 85% 83% 86% 87% 85% 85% 88% 90% 92% 92% 92% 92% 92% 92% 92% 92% 92% 92			
Current consumption*1 100VAC 0.35A 0.35A 0.35A 0.36A 0.56A 0.63A 0.63A 1.24A 1.21A 1.19A 1.49A 1.49A 1.43A 2.76A 2.71A 2	12%		
Current consumption*1 100VAC 0.35A 0.35A 0.35A 0.36A 0.56A 0.63A 0.63A 1.24A 1.21A 1.19A 1.49A 1.49A 1.43A 2.76A 2.71A 2			
consumption**1	704		
	2.73A .13A		
Power factor correction circuit — Built-in Built-in			
	5A		
	Max. ±5%		
	Max. ±0.5%		
	Max. ±1%		
B Single OBines is \$1.84 Max. And 40/ Max. And 40/ Max.			
	'5ms		
	5ms		
Hold time ^{×1} 100VAC 24ms 25ms 25ms 20ms 15ms 15ms 15ms 14ms 15ms 98ms 81ms 87ms 33ms 36ms 2	25ms		
(Typical) 240VAC 190ms 190ms 190ms 130ms 110ms 110ms 110ms 100ms 110ms 97ms 81ms 86ms 33ms 36ms 2	25ms		
	BA		
protection (Typical) 240VAC 32A 30A 31A 29A 31A 29A 19A 17A 37A 37A 20A 37A 22A 25A 2	26A		
Over-current protection** 105 to 160%	105 to 160%		
9 Over-voltage protection 16.0V 30.0V 58.0V 16.0V 30.0V 5	8.0V :10%		
Output low-voltage 4.2V 9.6V 20.0V 4.2V 9.6V 20.0V 9.6V 20.0V 43.0V 9.6V 20.0V 43.0V 10.0V 20.0V 4	3.0V :10%		
Reference P-12 to 15			

X1: It is for 100% load.

X2: Adjusting voltage by the output adjuster (V.ADJ), it is changed the below voltage adjustment range.

**3: It is for the rated input voltage 100-240VAC (85-264VAC), and 100% load.
**4: It is for the rated input voltage 100-240VAC.

(A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(I) SSRs / Power Controllers

(J) Counters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(R) Graphic/ Logic Panels

P-3 **Autonics**