



Product Overview

Type	DIN rail mounting type Switching Mode Power Supply (S.M.P.S.)			
Model	SP-0305	SP-0312	SP-0324	
Appearances & Dimensions	 <p>[W37.5×H85×L65mm]</p>			
Capacity	3W			
Input	Power supply	100-240VAC		
	Frequency	50/60Hz		
	Current consumption	Max. 0.15A		
	Efficiency	67 to 74%		
Output	Voltage	5VDC	12VDC	24VDC
	Current	0.6A	0.25A	0.13A
	Voltage variable range	Max. ±5%		
	Ripple	Max. 5%		
	Voltage fluctuation ratio	Max. 0.5% (at 85-264VAC 100% load)		
	Overcurrent protection	Min. 110%		
Reference	P-4 to 7			

Type	General purpose type Switching Mode Power Supply (S.M.P.S.)												
Model	SPA-030-05	SPA-050-05	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	
Appearances & Dimensions	 <p>[W97×H40×L120mm] [W97×H40×L160mm]</p>												
Capacity	30W	50W	30W	50W	30W	50W	75W	100W	75W	100W	75W	100W	
Input	Power supply ^{※5}	100-240VAC (85-264VAC)						100-120/200-240VAC (85-132/170-264VAC) switching type					
	Frequency	50/60Hz											
	Efficiency ^{※1}	Min. 60%	Min. 67%	Min. 74%		Min. 80%		Min. 70%		Min. 78%	Min. 72%	Min. 78%	Min. 80%
Output	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		24VDC		5VDC		12VDC		24VDC	
	Current	6A	10A	2.5A	4.2A	1.5A	2.1A	15A	20A	6.3A	8.5A	3.2A	4.2A
	Voltage adj. range ^{※4}	±5%											
	Input fluctuation ^{※2}	Max. ±0.5%											
	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. 10ms						Min. 5ms		Min. 10ms	Min. 5ms	Min. 5ms	Min. 10ms
Protect function	Inrush current protection	Max. 30A (100VAC) /Max.40A (240VAC)		Max. 20A (100VAC)				Max. 45A (100VAC) /Max. 50A (240VAC)		Max. 35A (100VAC) /Max. 40A (240VAC)	Max. 45A (100VAC) /Max. 50A (240VAC)	Max. 35A (100VAC) /Max. 40A (240VAC)	
	Overcurrent protection	Min. 110%						Min. 105%	Min. 110%				
	Overvoltage protection ^{※3}	—						6.5V ±10%		16V ±10%		30V ±10%	
	Short protection	Max. 5ms						Max. 10ms		Max. 5ms	Max. 10ms	Max. 5ms	
Reference	P-8 to 11												

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






※2: Rated input voltage [SPA-030/050 Series: 100-240VAC (85-264VAC)] under 100% of load.

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 variation range (±5%).

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

Product Overview

Type	DIN rail mounting type Switching Mode Power Supply (S.M.P.S.)												
Model	SPB-015-05	SPB-015-12	SPB-015-24	SPB-030-05	SPB-030-12	SPB-030-24	SPB-060-12	SPB-060-24	SPB-120-24	SPB-240-12	SPB-240-24	SPB-240-48	
Appearances & Dimensions	Line-up <div style="display: flex; justify-content: space-around; text-align: center;"> <div> <p>SPB-015 Series</p>  <p>[W22.5×H90×L90mm]</p> </div> <div> <p>SPB-030 Series</p>  <p>[W30×H90×L90mm]</p> </div> <div> <p>SPB-060 Series</p>  <p>[W36×H100×L110mm]</p> </div> <div> <p>SPB-120 Series</p>  <p>[W50×H115×L110mm]</p> </div> <div> <p>SPB-240 Series</p>  <p>[W80×H115×L110mm]</p> </div> </div>												
	Output power	15W	15.6W	25W	30W	31.2W	60W		120W	240W			
Input	Voltage	100-240VAC(85-264VAC)											
	Frequency	50/60Hz											
	Efficiency ^{※1}	Min. 75%	Min. 77%	Min. 81%	Min. 76%	Min. 81%	Min. 82%	Min. 75%	Min. 80%	Min. 86%	Min. 88%		
	Power factor ^{※1}	-											
	Current consumption ^{※1}	Max. 0.4A			Max. 0.8A			Max. 1.6A		Max. 1.9A	Max. 3.8A		
Output	Voltage	5VDC	12VDC	24VDC	5VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC	
	Current	3A	1.3A	0.65A	5A	2.5A	1.3A	5A	2.5A	5A	20A	10A	5A
	Voltage adj. range ^{※2}	Max. ±10%						Max. ±5%					
	Input variation ^{※3}	Max. ±0.5%											
	Load variation ^{※1}	Max. ±1%									Max. ±1.5%		
	Ripple&Ripple noise ^{※1}	Max. ±1.5%	Max. ±1%		Max. ±1.5%	Max. ±1%		Max. ±1%		Max. ±3%	Max. ±1.5%	Max. ±1%	
	Start-up time ^{※1}	Max. 1,000ms						Max. 600ms		Max. 1,000ms			
Protection	Hold time ^{※1}	Min. 10ms									Min. 20ms		
	Inrush current protection	Max. 25A(100VAC), Max. 40A(240VAC)									Max. 50A(100VAC), Max. 50A(240VAC)		
	Output over current protection ^{※4}	105~160%											
	Output over voltage protection	-								30.0V ±10%	16.0V ±10%	30.0V ±10%	58.0V ±10%
Output low-voltage indicate	4.2V ±10%	9.6V ±10%	20.0V ±10%	4.2V ±10%	9.6V ±10%	20.0V ±10%	9.6V ±10%	20.0V ±10%	10.0V ±10%	20.0V ±10%	43.0V ±10%		
Reference	P-12 to 15												

※1: It is for the rated input voltage 100-240VAC, and 100% load.

※2: Adjusting voltage by the output adjuster (V.ADJ), it is changed the below voltage adjustment range (±5%).

※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

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software