

120 Watt

(12 V, 24 V, 48 V DC)

DPS series

» Specification

Model		DPS-120S-12	DPS-120S-24	DPS-120S-48	
Output	Rated output voltage	12 V	24 V	48 V	
	Rated output current	10 A	5 A	2.5 A	
	Rated power output	120 W			
	Peak current	12 A	6 A	3 A	
	Circuit voltage fluctuation rate	±0.5 %	±0.5 %	±0.5 %	
	Load voltage fluctuation rate	±1 %	±1 %	±1 %	
	Ripple	120 mV max	150 mV max	240 mV max	
	Ambient temperature fluctuation	±1 %	±1 %	±1 %	
	Running time	700 ms max (110 V AC, Io=100 %)			
	Remaining time	30 ms min (110 V AC, Io=100 %)			
	Voltage fluctuation range	11.2 - 13.7 V	22.6 - 27.6 V	45.2 - 50.1 V	
Voltage setting range	±1 % max (Rated output voltage)				
Input	Input voltage	100 - 120 V AC / 200 - 240 V AC ※ Auto-select input			
	Input frequency	50 - 60 Hz (47 - 63 Hz)			
	Current (A)	110 V AC	2.1	2.1	2.1
		220 V AC	1.1	1.1	1.1
	Efficiency	220 V AC	83 %	87 %	88 %
	Inrush current	110 V AC	20 A Typ. (Ta=25 °C, Io=100 % at Cold start)		
		220 V AC	40 A Typ. (Ta=25 °C, Io=100 % at Cold start)		
Leakage current	110 V AC	0.35 mA max			
	220 V AC	0.75 mA max			
Protection function	Over current protection	Protective function performed within 110 ~ 200 % of the rated output current			
	Over voltage protection	14 - 18 V	30 - 34 V	59 - 63 V	
	Overheating protection	Protection circuit is in operation when PWM controller's junction temperature is over 135-140°C.			
	Protection of output short	Auto Re-start			
	DC OK Signal	Green LED (ON when output voltage is normal)			
ETC	Dielectric strength	Relay output (ON when rated output is over 85%), 250 V AC 1 A max, 30 V DC 1 A max)			
		2,700 V AC for 1 min, Detection current = 10 mA, (Input - Output)			
		1,500 V AC for 1 min, Detection current = 10 mA, (Input - FG)			
		500 V AC for 1 min, Detection current = 10 mA, (Output - FG)			
Insulation resistance	500 V AC for 1 min, Detection current = 10 mA, (Output - DC OK)				
	50 MΩ min. (Input - Output, FG), (Output - FG, DC OK)				
Environment	Ambient temperature	- 25 ~ +70 °C (Refer to the derating curve of output load)			
	Ambient humidity	20 ~ 90 % RH (With no condensation)			
	Storage temperature	- 40 ~ +85 °C (With no condensation)			
	Vibration resistance	10 - 55 Hz, peak amplitude 0.375 mm, 2 hours for each of 3 directions (DIN Rail is installed without applying voltage)			
	Shock resistance	150 %, 3 times for each of 6 directions (State of packing)			
Weight	670 g	658 g	654 g		

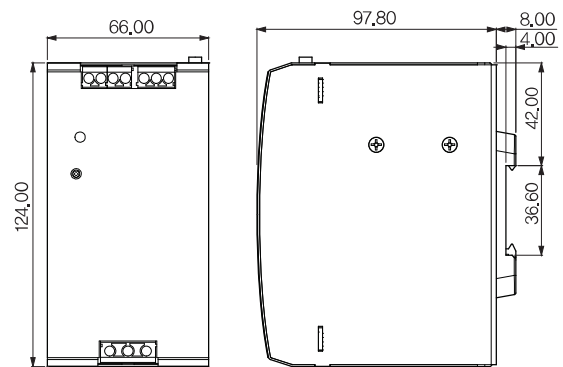
※ Auto-select input selects input voltage automatically without input output 100-120 V AC or 200 - 240 V AC.

» Connection diagram



Terminal number	Terminal name	Description
①	+V OUT	+ Output terminal
②	-V OUT	- Output terminal
③	COM	DC OK Relay output
④	NC	
⑤	NO	
⑥	⊕	FG
⑦	AC (N)	AC Input terminal
⑧	AC (L)	
⑨	V-ADJ	Output voltage variable volume
⑩	DC OK	Output indication LED

» Dimension (Unit : mm)



※ Terminal ① and ② are connected inside the device
Terminal ③ and ④ are connected inside the device