



Features

- Wide input voltage range(AC100 - 400V)
- Overload, short-circuit, and over-voltage protection
- Natural Cooling
- Meets safety standards with a switching frequency of 40-60 kHz
- Full-load burn-in testy
- Constant voltage output mode with high voltage accuracy

Electrical Specifications

Specifications		TPS-H12SP-5V	TPS-H12SP-12V	TPS-H12SP-24V
Output	Output Voltage	5V	12V	24V
	Rated Current	1500mA	800mA	420mA
	Current Range	0-1500mA	0-830mA	0-420mA
	Ripple	<80 mVp-p	<120 mVp-p	<130mVp-p
	Voltage Accuracy	± 1%	± 1%	± 1%
	Voltage Adjustment Rate	< ± 1.5%	< ± 1.5%	< ± 1.5%
	Load Adjustment Rate	± 1.2%	± 1.2%	± 1.2%
	Rated Power	7.5W	10W	10W
	Adjustable Voltage Range	4.95~5.1V	11.95-12.2	24-24.2
	Startup/Rise/Hold Time	50ms、 30ms、 30ms		
Input	Input Voltage Range	rated 100V~400VAC(max.90~430VAC)(DC127V~610VDC)		
	Input Current	0.15A~0.09A		
	Frequency Range	47Hz~63Hz		
	Efficiency(Determined by the input voltage)	>70%	>80%	>82%
	Inrush Current	COLD START <10A		
	Leakage Current	<0.5mA/220VAC		
Protection	Over-power Protection	130~150% of rated power, auto recovery after fault is removed		
	Over-voltage Protection	DC OUT >130%		
	Short-circuit Protection	Hiccup mode, auto-recovery after short is removed		
Environment	Operating Temperature and Humidity	-20°C~-+35°C @100%LOAD,+50°C @60%LOAD: 20%-90%RH		
	Storage Temperature and Humidity	40°C~-+105 10%-95%RH		
Safety and EMC	Standards			
	Withstand Voltage	I/P-O/P:3KVAC 1min.		
	Insulation Resistance	I/P-O/P:500VDC/100M Ohms		
Other	Dimensions (LxWxH)	66×30.5×20mm		
	Weight	33g		
Notes	1. All parameters are measured at a rated input voltage of 220VAC, rated load, 25°C, and 70% humidity. 2. Accuracy includes setup error, voltage regulation, and load regulation. 3. Ripple measurement: Power supply and load are connected with 30cm twisted wires, with 0.1μF and 47μF capacitors at the load end, measured by a 20MHz oscilloscope. 4. Voltage adjustment rate is measured by changing the input voltage from low to high with rated load. 5. Load regulation is measured from 0% to 100% load. 6. Each output can deliver the maximum current, but the total load should not exceed the maximum rated power.			

Frequency: 47~63Hz

