



### Features

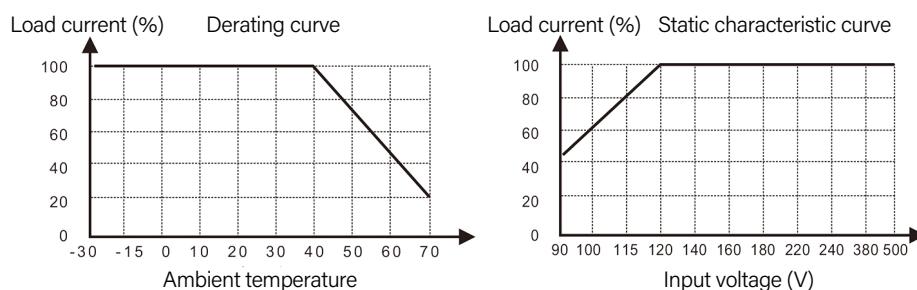
- Wide Input Voltage Range: 100VAC~500VAC
- Ambient Temperature Range: -30°C~60°C
- Output short-circuit, over current and over voltage protection
- Isolated Withstand: 4000VAC
- Input Surge Protection
- regulated output, low ripple
- Full-load burn-in test100%
- Three-phase four-wire, any two wires can be input (supports live-neutral or live-live)

### Specifications

Model	TPS-MPT72S-12V	TPS-MPT72S-18V	TPS-MPT72S-24V	TPS-MPT72S-36V	TPS-MPT72S-48V
Output	Output voltage	12V	18V	24V	36V
	Rated current (Natural cooling)	6A	3.5A	3A	2A
	Current range (Natural Cooling)	0-6A	0-3.5A	0-3A	0-2A
	Rated power (Natural cooling)	72W	72W	72W	72W
	Efficiency (Typ.)	≥86%	≥86%	≥87%	≥87%
	Ripple (Max.)	<150mVp-p	<150mVp-p	<200mVp-p	<200mVp-p
	Adjustable voltage range	9~15V	16~20V	20~29V	30~36V
	Voltage accuracy	±1.5%	±1%	±1%	±1%
	Line regulation	±1%	±1%	±1%	±1%
	Load regulation	±1%	±1%	±1%	±1%
Input	Start-up & Rise time	≤1.3S/50mS (Input 115、230VAC)			
	Voltage range	AC 176~500V rated power; 50% power derating at 100~176VAC; DC 200~707 rated power; 50% power derating at 141~200VDC			
	Frequency range	47~63Hz			
	AC power (Typ.)	<1000mA (<0.5W at no load)			
	Inrush current (Typ.)	Cold start: 30A/230VAC			
	Leakage current	<2mA/240VAC			
Protection	Overload	115%~180% of rated output power (overload protection)			
		Protection Mode: Hiccup mode, automatically recovers after abnormal load conditions are removed			
	Overvoltage	150%-200% of rated output voltage			
		Protection mode: clamps output voltage, automatically recovers after overvoltage condition is cleared.			
Environmental	Short-circuit	Hiccup Mode: Automatically recovers after short-circuit removal			
	Operating temperature and Humidity	-30~60C (refer to derating curve ) 20~90%RH, non-condensing			
	Storage temperature and Humidity	-40~85°C, 10~95%RH			
Safety and EMC	Safety standard	GB 4943.1-2011			
	Withstand voltage	1/P-0/P:4KVAC			
	Insulation resistance	I/P-0/P,100M Ohms/500VDC/25°C/70%RH			
	EMC emission	Complies with EN55032(CISPR32)Class A,GB 17625.1-2012			
	EMC immunity	Complies with GB/T9254-2008			

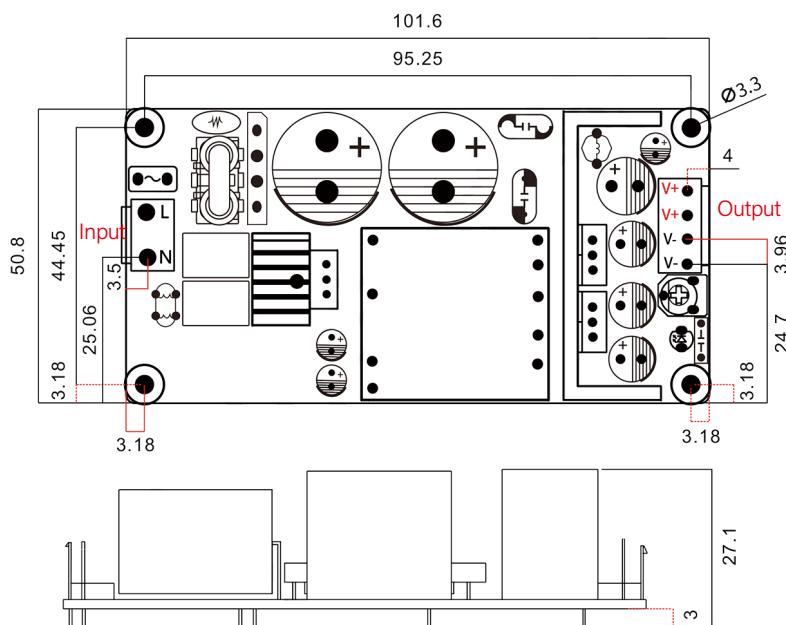
Other	Dimensions (LxWxH)	101.6×50.8×30mm
	Weight	approximately 158g
Notes	1. All parameters are measured at a rated input voltage of 220VAC, rated load, 25°C, and 70% humidity. 2. Accuracy includes setup error, voltage regulation, and load regulation. 3. Ripple measurement: Power supply and load are 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.	

### Characteristic Curves



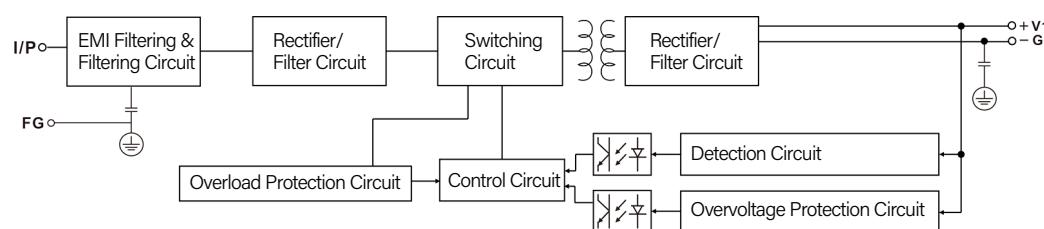
### Mechanical Dimensions

mm



### Block Diagram

Switching frequency: 65KHz



This electronic device must not be disposed of in the household waste at the end of its service life. For your return, there are free collection points for electrical appliances and, if necessary, additional points of acceptance for the reuse of the devices in your area. The addresses can be obtained from your city or communal administration. If the old electrical or electronic device contains personal data, you are responsible for deleting it before you return it. Further information: [www.elektrogesetz.de](http://www.elektrogesetz.de)