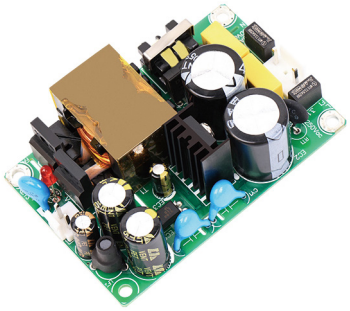
TPS-MPT36S High Voltage Series

Single Output Open Frame Power Supply



Features

- Input Voltage: AC: 100V - 500Vor DC: 141V-707V
- Temperature range: - 30℃~60℃
- Isolated withstand voltage: 3000VAC High Voltage isolated withstand power supply
- Regulated output, low ripple
- Output short-circuit, over current, over power protection
- high efficiency, high reliability

Specifications

Model		TPS-MPT36S-5V	TPS-MPT36S-12V	TPS-MPT36S-24V
Output	Output voltage	5V	12V	24V
	Rated current (176-500VAC)	6A	3A	1.5A
	Current range (Natural Cooling)	0.1~6A	0.1~3A	0.1~1.5A
	Rated Power (Natural cooling)	30W	36W	36W
	Ripple (Max.)	50mVp-p	50mVp-p	80mVp-p
	Voltage accuracy	2.0%	2.0%	2.0%
	Line regulation	2.0%	2.0%	2.0%
	Load regulation	2.0%	2.0%	2.0%
	EfficiencyC (Typ.)	82%	86.5%	89%
	Adjustable voltage range	Not adjustable; Supports input of 100V-500V. Can operate with any two wires among the four in a three-phase system, compatible with 110V/220V/380V.		
Input	Start-up, Rise and Hold time	1500ms,30ms/230VAC2500ms,30ms/115VAC (full load)		
	Voltage range	100~500VAC or 141~707VDC		
	Frequency range	47~63Hz		
	AC power (Typ.)	<0.8A (＜0.3W at no load)		
	Inrush current (Typ.)	Cold Start： 30A/230VAC		
Protection	Leakage current	<2mA/240VAC		
	Overload	120%~180% of rated power		
		Protection Mode: Hiccup mode, automatically recovers after abnormal load conditions are removed		
Environmental	Operating Temperature and Humidity	-30~60°C (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	I/P-0/P: 3KVAC		
	Insulation resistance	I/P-O/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)	76*50*26.5mm (L*W*H)		
	Weight	approximately 95g		

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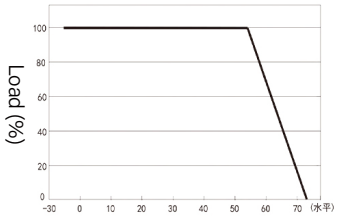
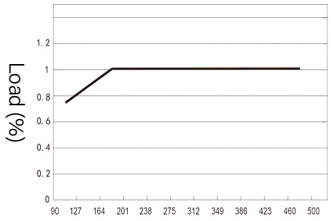
Notes	1. All parameters are measured at a rated input voltage of 220VAC, rated load, 25℃, and 70% humidity. 2. Accuracy includes setup error, voltage regulation, and load regulation. 3. Ripple measurement: Power supply and load are connected with 30cm twisted wires, with 0.1μF and 47μF capacitors at 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 1% to 100% load.

Derating Curve

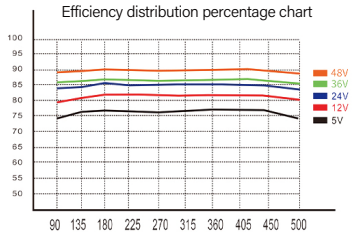


Ambient temperature (℃)



Input voltage(VAC)60Hz

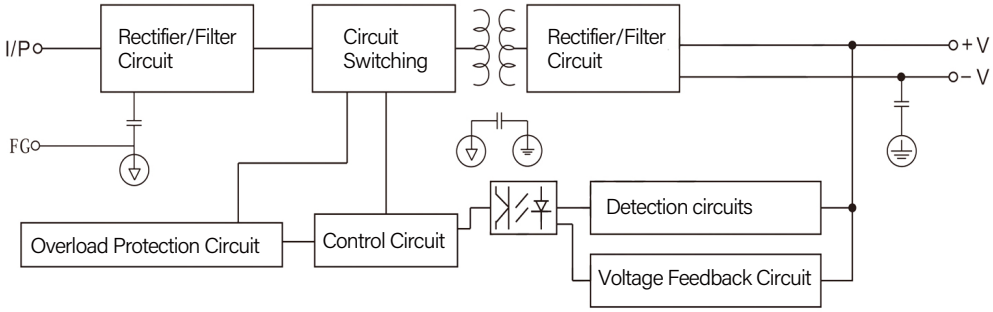
Static Characteristic Curve



Input voltage (AC)

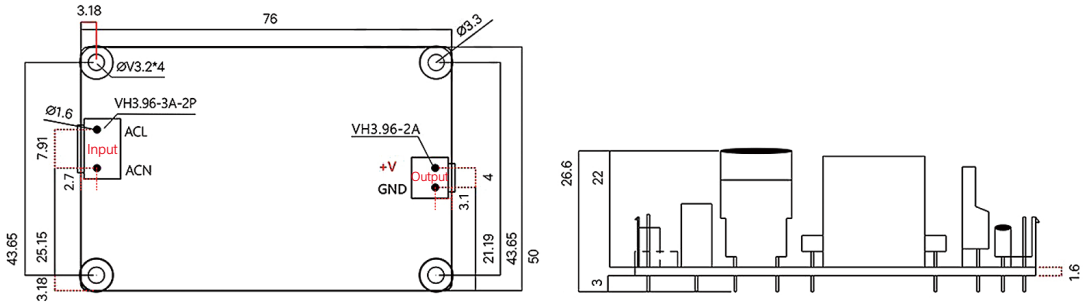
Block Diagram

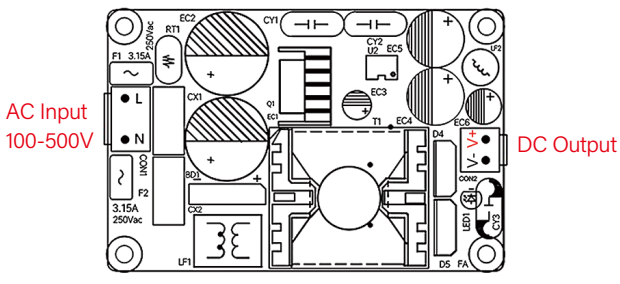
Switching frequency: 63KHz



Mechanical Dimensions

mm





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 an be obtained from your city or cummunal administration. If the old electrical or electronic device contains personal data, you are esponsible for deleting it before you return it. Further information: www.elektrogesetz.de