

### Features

- Compact size: 4"x2" standard dimensions
- Natural cooling: 100W under natural cooling; 120W with 10CFM fan cooling
- Isolation withstand voltage: 3000VAC high-voltage isolation power supply
- Regulated output: Low ripple noise
- Output protection: Short circuit, overcurrent, and overvoltage protection
- High efficiency and reliability: LED indicator for power on
- Operating altitude: Can operate below 5000 meters

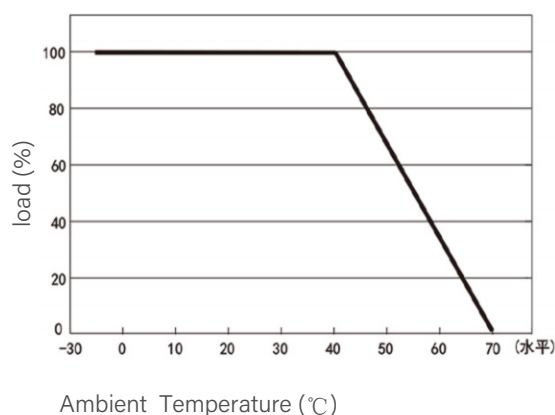
### Specifications

Model		TPS-RPS120S-9V	TPS-RPS120S-12V	TPS-RPS120S-18V	TPS-RPS120S-24V	TPS-RPS120S-36V	TPS-RPS120S-48V
Output	Output Voltage	9V	12V	18V	24V	36V	48V
	Rated Current (Natural Cooling)	8.3A	8.3A	4.17A	4.17A	2.1A	2.1A
	Rated Current (20CFM Fan Cooling)	10A	10A	5A	5A	2.5A	2.5A
	Current Range (Natural Cooling)	0~8.3A	0~8.3A	0~4.17A	0~4.17A	0~2.1A	0~2.1A
	Current Range (20CFM Fan Cooling)	0~10A	0~10A	0~5A	0~5A	0~2.5A	0~2.5A
	Rated Power (Natural Cooling)	75W	100W	75W	100W	75W	100W
	Rated Power (20CFM Fan Cooling)	90W	120W	90W	120W	90W	120W
	Efficiency (YP)	87%	88%	88%	89%	89%	90%
	Ripple (Max)	100mVp-p	100mVp-p	150mVp-p	150mVp-p	180mVp-p	180mVp-p
	Voltage Adjustment Range	9~15V	9~15V	16~29V	16~29V	30~55V	30~55V
	Voltage Accuracy	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
Input	Voltage Range	90~264VAC or 127~370VDC: Input voltage is below 100W, power needs to be derated.					
	Input Frequency	47~63Hz					
	AC Current (Typ.)	<1500mA, no-load power consumption less than 0.6W					
	Inrush Current (Typ.)	Cold start: 30A/230VAC					
	Leakage Current	<2mA/240VAC					
Protection	Overload	115%~180% of rated output power Automatically recovers after the removal of abnormal load conditions					
	Overvoltage	150%~200% of rated output voltage Automatically recovers after the removal of overvoltage conditions					
Environment	Operating Temperature/Humidity	-30~60°C (Please refer to the "derating curve") 20~90%RH, non-condensing					
	Storage Temperature/Humidity	-40~85°C, 10~95%RH					

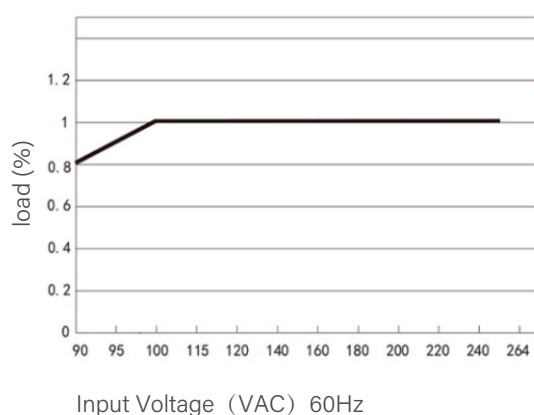
Safety EMC	Safety Standard	EN 62368-1
	Withstand Voltage	I/P-O/P:3KVAC
	Insulation Resistance	I/P-O/P , 100M Ohms/500VDC/25 C /70%RH
	EMC	EN55032 (CISPR32) Class B.
Mechanical Specifications	Dimensions(L*W*H)	101.6*50.8*32mm
	Weight	about 162g
Notes	<ol style="list-style-type: none"> <li>1. All parameters are measured under the following conditions: rated input voltage of 220V AC, rated load, ambient temperature of 25°C, and humidity of 70%.</li> <li>2. Accuracy: Includes setting error, voltage regulation, and load regulation.</li> <li>3. Ripple testing: Connect the power supply and load with a 30CM twisted pair. The load is connected with a 0.1μF ceramic capacitor and a 47μF capacitor, and measured at the load end using a 20MHz oscilloscope.</li> <li>4. Voltage regulation: Measured with the input voltage varying from low to high under rated load conditions.</li> <li>5. Load regulation: Measured with the output varying from 0% load to 100% load.</li> </ol>	

### Product Characteristic Curve

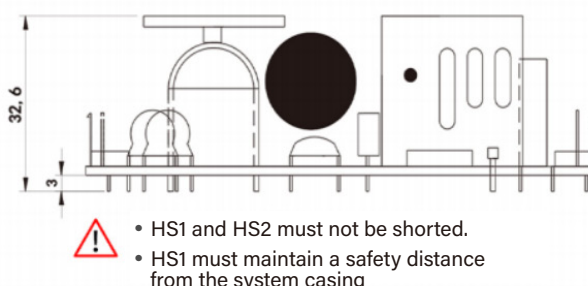
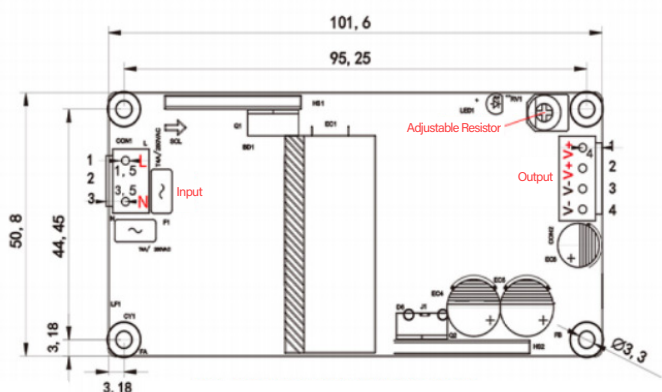
#### • Derating Curve



#### • Static Characteristic Curve



### 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 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)