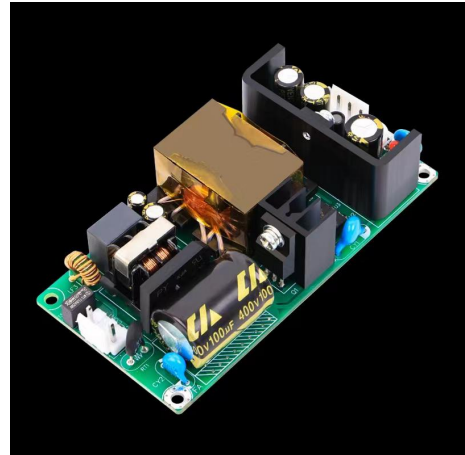


1、 Product Characteristics

- Naked Plate Design, Natural Air Cooling
- 4*2 Inches, 27mm Height
- Wide Input Voltage Range: 85-264VAC
- Output Voltage Adjustable
- -25~+70 Operating Temperature
- Isolation Voltage: 3000VAC
- High Reliability, Long Life, 3 Years Warranty
- Protection Function: Input Undervoltage/Output Overvoltage/Overcurrent/short Circuit Protection & Over Temperature Protection



2、 Product Description

MP-U72SXX-PS series is a 72W output power, DC input type switching power supply with an input voltage range of 85-264VAC, which can provide a variety of output voltages of 5V, 12V, 24V, 36V, and 48V to operate in an environment of -25~+70 degrees. This series has a complete protection function, in line with international safety regulations, and is suitable for industrial automation machinery, industrial control systems, communication equipment and electronic instruments and meters..

3、 Selection Table

Model	Output Voltage	Maximum Output Power	Output Voltage And Current	Output Voltage Adjustable Range	Efficiency (Typ.)
MP-U72S05-PS	100 ~ 240VAC	50W	5V/10A	4-6V	81%
MP-U72S12-PS	100 ~ 240VAC	72W	12V/6A	9-15V	87%
MP-U72S24-PS	100 ~ 240VAC	72W	24V/3A	16-29V	88%
MP-U72S36-PS	100 ~ 240VAC	72W	36V/2A	30-55V	88%
MP-U72S48-PS	100 ~ 240VAC	72W	48V/1.5A	30-55V	90%

4、Electrical Specifications

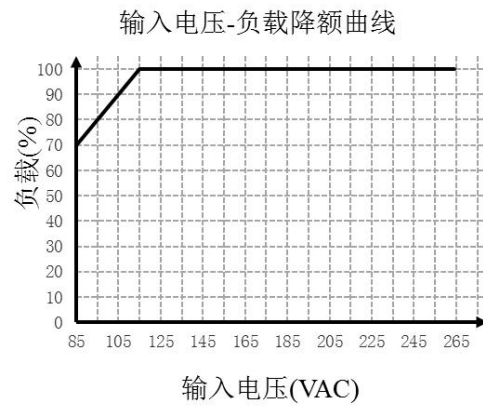
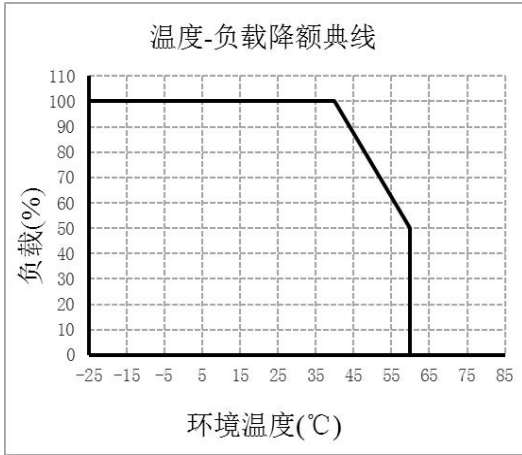
MODEL		MP-U72S05-PS	MP-U72S12-PS	MP-U72S24-PS	MP-U72S36-PS	MP-U72S48-PS
OUTPUT	Rated Voltage	5V	12V	24V	36V	48V
	Rated Current	10A	6A	3A	2A	1.5A
	Current Range	0-10A	0-6A	0-3A	0-2A	0-1.5A
	Rated Power	50W	72W	72W	72W	72W
	Efficiency(Min.)	81%	87%	88%	88%	90%
	Ripple (Max.)	50mVp-p	30mVp-p	30mVp-p	50mVp-p	50mVp-p
	Voltage Overshoot	10%				
	Linear Adjustment	±1%				
	Load Adjustment	±2%				
	Start-up time(Max.)	1S				
	Rise Time (Typ.)	30ms				
	Holding Time (Typ.)	8ms				
INPUT	Rated Voltage	100-240VAC				
	Voltage range	85-264VAC				
	Input Frequency	47-63Hz				
	Power consumption	≤0.6W				
	Inrush current (Max.)	30A				
	Leakage current (Max.)	<2mA / 240VAC				
Protection	Overcurrent Protection	110%-150% of output rated current, hiccup mode, automatic recovery after current drops to 105% of output rated current				
	Over-voltage Protection	110%-130% output rated voltage, hiccup mode, can be automatically restored				
	Short circuit Protection	Power protection after short-circuit, output can be automatically restored after eliminating short-circuit				
	Over-temperature Protection	Output voltage shutdown, output can be restored after power restart.				
Environment	Operating temperature, Humidity	-30~+70°C, 20%~90%RH non-condensing (please refer to the temperature-derating curve)				
	Storage temperature, Humidity	-40~+85°C, 10%~95%RH				
	Temperature coefficient	±0.03%/°C (0-50°C)				
	Vibration	10-500Hz, 2G 10 min/cycle, 60 min each X, Y, Z axis				
Safety and EMC	Safety specifications	IEC62368-1				
	Electromagnetic compatibility	CISPR32/EN55032 CLASS B, EN61000-4-2/3/4/6 CLASS B				
	Withstanding Voltage	I/P-O/P:3000VAC, I/P-FG:1500VAC, O/P-FG: 500V;Test for 1min, leakage current less than 5mA				
	Insulation Resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohm/500VDC				
Other	Dimension	L*W*H:101.6*50.8*27.1mm				
	Weight	140±5g/PC				
	Cooling Method	Natural Air Cooling				

Note:

(1) Typical values are measured at 25°C ambient temperature and 230VAC unless otherwise noted.

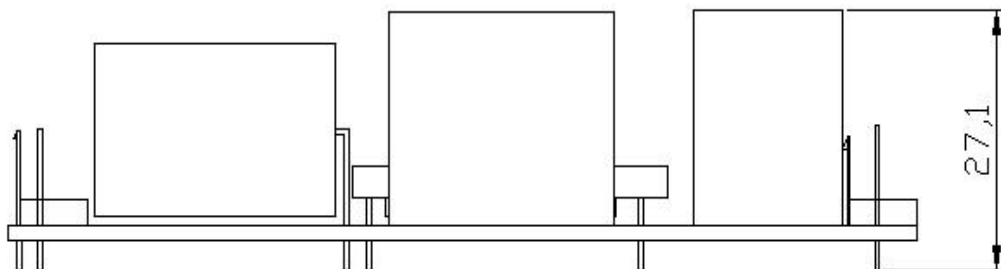
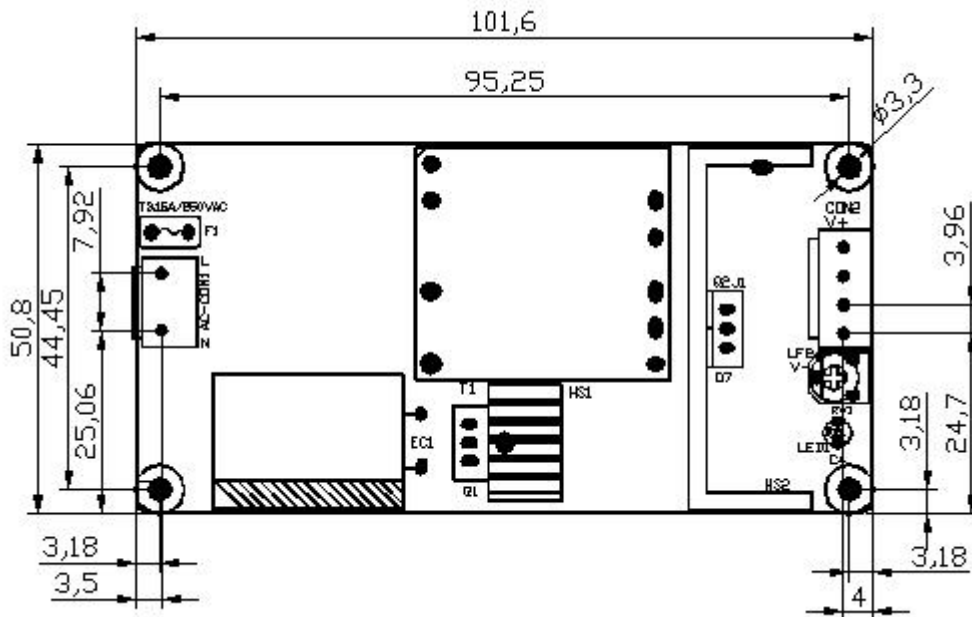
(2) Ripple and noise tests are performed with 0.1 μF and 47 μF capacitors in parallel at the output, and an oscilloscope with a bandwidth of 20 MHz.

5、 Characterization Curve



6、 Diagrams

Unit: MM



7、 Revised Version

Date of change	Version No.	Remarks
2020/03/28	1.0	Initial release
2022/5/25	1.1	Changed heat sink to oxidized profile aluminum