MPS-350W□SS Series

▲ Features

Superior performance with small ripple
Input 115/230VAC ,selectable by switch
100% full load burn-in test
Protections:short circuit/overload/over voltage
LED indicator for power on
Optional rail mounting bracket can be installed on DIN rail TS35
Instant overload capability is 110%-150%
Intelligent fan cooling
Seismic protection
“Three pivot points”M4 large caliber installation
“Three proof”treatment， suitable for severe environment
Terminal with protective cover
All aluminum case
Surge protection
3 years warranty

▲ Applications

Industrial automation control system
Intelligent control system
Electronic instruments and devices
LED control
Household appliances

▲ Model Encoding

MPS	-	350W	24V	S	S
Model name		Output wattage	Output voltage	Input voltage 115/230V	Terminal selection

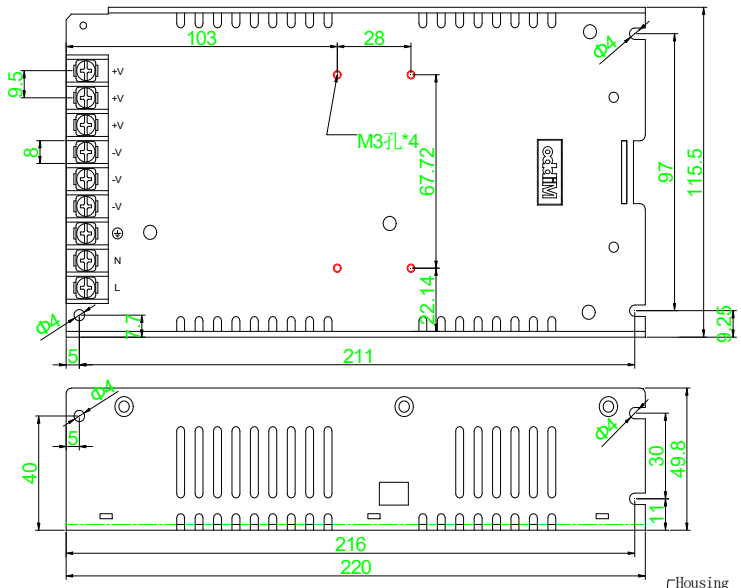
Mibbo

Specification

Input					
Voltage range	90-132VAC or 180-264VAC（Code switch switch） 254-370VDC				
AC current	7A/115VAC 4A/230VAC				
Frequency range	47-63Hz				
Inrush current (max)	40A/115VAC 60A/230VAC				
Output					
DC voltage (V)	5V	12V	24V	36V	48V
Efficiency	82%	85%	87%	88%	88%
Voltage ADJ.range	±10%				
Rated Current(A)	60A	29.2A	14.6A	9.8A	7.3A
Rated power(W)	300W	350.4W	350.4W	352.8W	350.4W
Ripple & noise(max) Note.2	150mVp-p	150mVp-p	150mVp-p	240mVp-p	240mVp-p
Voltage tolerange Note.3	±2%	±1%	±1%	±1%	±1%
Line regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load regulation Note.5	±2.5%	±0.5%	±0.5%	±0.5%	±0.5%
Setup，rise time	1000ms 50ms/230VAC 1000ms 50ms/115VAC(at full load)				
Hold up time	20ms/230VAC 16ms/115VAC(at full load)				
Status indicator	Green LED				
Protection					
Overload	110%-150% rated output power				
	Protection type: Constant current limiting, recovers automatically after fault condition is removed				
Over voltage(V)	5.6-6.8V	13.8-16.2V	27.6-32.4V	41.4-46.8V	57.6-67.2V
	Protection type:shut-off mode，re-power on to recover				
Smart fan	Intelligent judgment of temperature, when the machine temperature is higher than 40℃ start the fan forced heat dissipation				
Over temperature	Protection type:shut down o/p voltage,recovers antomatically after temperature goes down				
Three proof treatment	Suitable for high dust, condensation occasions				
Safety and EMC					
Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
Isolation resistance	I/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70％RH				
Safety standards	Design refer to EN IEC 62368-1、GB4943.1				
EMC emission	**Parameter**	**Standard**	**Test Level**		
	Conducted	EN 55032	Class A		
	Radiated	EN 55032	Class A		
	Voltage Flicker	EN 61000-3-3	Design refer to Class A		
	Harmonic Current	EN IEC 61000-3-2	Design refer to Class A		
EMC immunity	**Parameter**	**Standard**	**Test Level**		
	ESD	EN 61000-4-2	Level 3 8KV air;Level 2 4KV contact		
	Radiated Susceptibility	EN 61000-4-3	Level 2 3V/m		
	EFT/Burest	EN 61000-4-4	Level 3 2KV		
	Surge	EN 61000-4-5	Level 3 2KV/Line-Line;Level3 4kV/Line-Line-FG		
	Conducted	EN 61000-4-6	Level 2 3V		
	Magnetic Field	EN 61000-4-8	Level 2 3A/m		
	Voltage Dips and interruptions	EN 61000-4-11	< 5% residual voltage for 0.5 cycles ,70% residual voltage for 25 cycles , < 5% residual voltage for 250 cycles:		
Environmental					
Working temperature	- 25～+60℃(Refer to "Derating curve ")				
Storage temperature	- 20～+85℃				
Storage humidity	10-95％RH				
Vibration	Component:10-500Hz,2G 10 min/1cycle 60 min each along X,Y,Z axes				

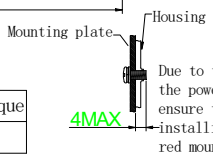
Others		
Mean time between failure	≥234K hrs,MIL-HDBK-217F(25℃)	
Installation	Plate screws fixed, or optional accessories can be TS35 guide rail installation	
Protection class	IP20	
Weight	About 0.87Kg	
Length*width*height	220*115*50mm	
Data	**Details**	**Model name**
	MPS 300.0W 60.0A 05V	MPS-350W05VSS
	MPS 350.4W 29.2A 12V	MPS-350W12VSS
	MPS 350.4W 14.6A 24V	MPS-350W24VSS
	MPS 352.8W 9.8A 36V	MPS-350W36VSS
	MPS 350.4W 7.3A 48V	MPS-350W48VSS
Attachment	**Details**	**Model name**
Rail pin	TS35 installation accessories	MPS-F050B

Installation Instruction



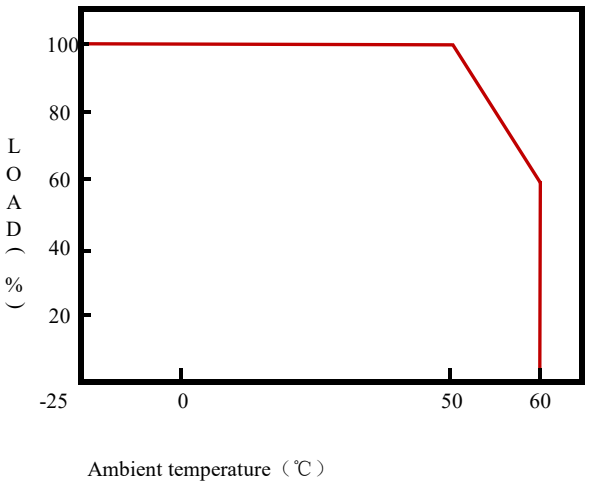
Installation Instructions

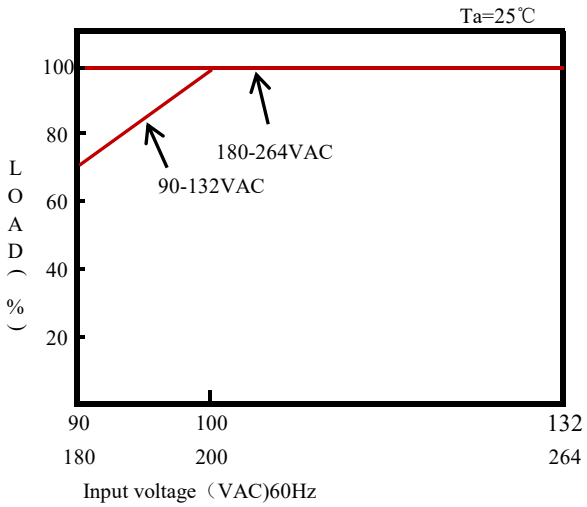
Terminal Spec	U Type of the width of the terminal	Wire installation specification	Max. Torque
9S Terminal	8mm MAX	22-12AWG	12N.m(MAX)



Due to the high voltage inside the power supply, please kindly ensure the safety when installing the screws in the red mounting hole, It is necessary to the ensure that the size in the drawing above in not more than 4mm, and the installation torque in not more than 1.2N.m

Derating curve





Note: 1.All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25℃ of ambient temperature.
2.Ripple & noise are measured at 20MHZ of bandwidth by using a 12"twisted pair-wire teminated with a 0.1uf & 47uf parallel capacitor."
3.Tolerance:includes set up tolerance,line regulation and load regulation.
4.Line regulation is measured from low line to high line at rated load.
5.Load regulation is measured from 0% to 100% rated load.
6.According to the requirements of GB4943.1,the power supply is only used for safe use in areas below sea level of 2000M and non-tropical climates.