MPS1000-□ Series

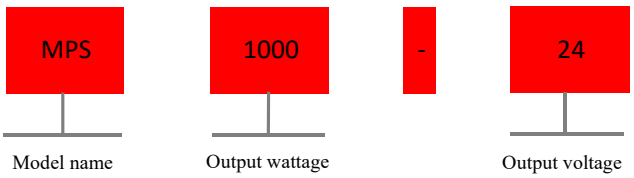
▲ Features

Superior performance with small ripple
230VAC input
100% full load burn-in test
Protections:short circuit/overload/over voltage/over temperature
LED indicator for power on
Optional installation accessories, can be installed flat
Compensating output voltage function
Instant overload capability is 105%-130%
“Three proof”treatment， suitable for severe environment
Seismic protection
All aluminum case
Surge protection
2 years warranty

▲ Applications

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

▲ Model Encoding



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Specification

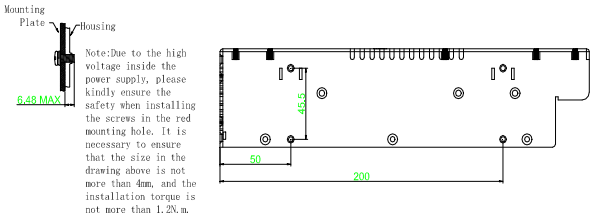
Input								
Voltage range	176-264VAC 250-370VDC							
AC current	10A/230VAC							
Frequency range	47-63Hz							
Inrush current (max)	90A/230VAC							
Output								
DC voltage (V)	5V	12V	24V	48V	60V	70V	80V	110V
Voltage ADJ.range	±10%							
Rated Current(A)	150A	83.3A	41.7A	20.8A	16.7A	14.3A	12.5A	9A
Rated power(W)	750W	999.6W	1000.8W	998.4W	1002W	1001W	1000W	990W
Ripple & noise(max) Note.2	150mVp-p	150mVp-p	200mVp-p	360mVp-p	480mVp-p	500mVp-p	600mVp-p	800mVp-p
Voltage tolerange Note.3	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
Line regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load regulation Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	85.00%	85.00%	88.00%	89.00%	89.00%	89.00%	89.00%	89.00%
Setup，rise time	1000ms 50ms/230VAC (at full load)							
Hold up time	20ms/230VAC (at full load)							
Status indicator	Green LED							
Protection								
Overload	105%-130% rated output power							
	Protection type: 5-48V shut-off mode，60-110V Limiting current output							
Over voltage(V)	5.75-6.75V	13.8-16.2V	27.6-32.4V	55.2-64.8V	69-81V	80.5-94.5V	92-108V	126.5-148.5V
	Protection type: shut down o/p voltage,re power on to recover							
Over temperature	Protection type:shut down o/p voltage,recovers antomatically after temperature goes down							
Safety and EMC								
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC 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 Note.6	Design refer to EN IEC 62368-1、GB4943.1							

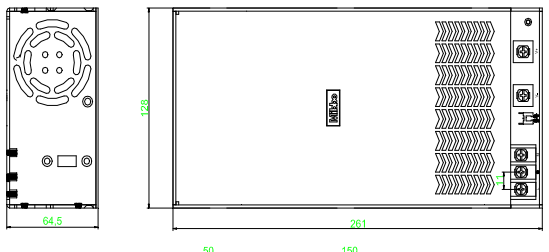
EMC emission	**Parameter**	**Standard**	**Test Level**
	Conducted	EN 55032	Class A
	Radiated	EN 55032	Class A
	Voltage Flicker	EN 61000-3-3	Design refer to Class A
	Harmonic Current	EN IEC 61000-3-2	Design refer to Class A
EMC immunity	**Parameter**	**Standard**	**Test Level**
	ESD	EN 61000-4-2	Level 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:

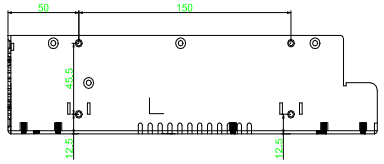
Environmental	
Working temperature	- 20～+60 ℃(Refer to "Derating curve ")
Storage temperature	- 40～+85℃
Storage humidity	10-95％RH
Vibration	Component:10-500Hz,2G 10 min/1cycle 60 min each along X,Y,Z axes

Others		
Mean time between failure	≥251.6K hrs MIL-HDBK-217F(25℃)	
Installation	Attachment: installation accessories	
Protection class	IP20	
Weight	About 2kg	
Length*width*height	260*130*63.5mm	
Data	**Details**	**Model name**
	MPS 750W 150A/5V	MPS1000-05
	MPS 999.6W 83.3A/12V	MPS1000-12
	MPS 1000.8W 41.7A/24V	MPS1000-24
	MPS 998.4W 20.8A/48V	MPS1000-48
	MPS 1002W 16.7A/60V	MPS1000-60
	MPS 1001W 14.3A/70V	MPS1000-70
	MPS 1000W 12.5A/80V	MPS1000-80
	MPS 990W 9A/110V	MPS1000-110

Installation Instruction







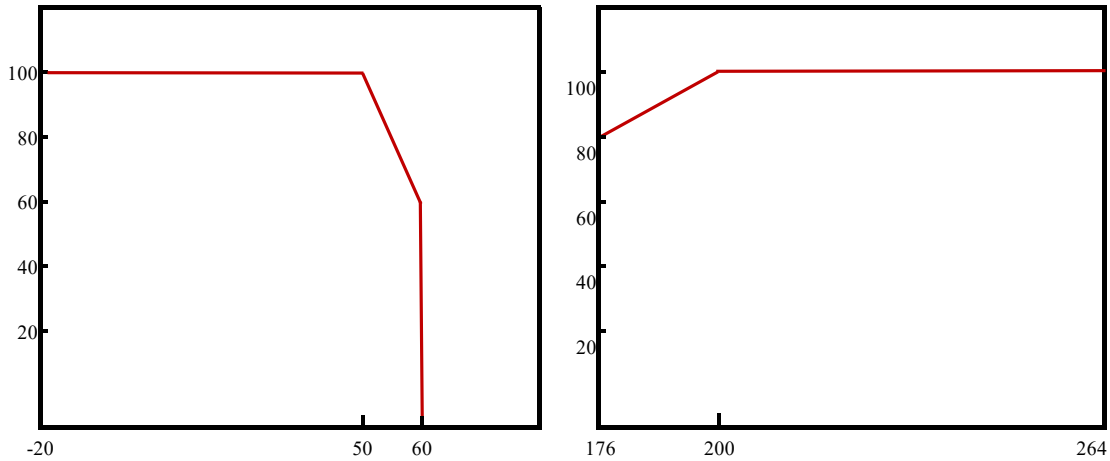
Installation instructions

Terminals spec	U Type of the width of the terminal	Wire installation specification	Max Torque
110 Terminals	8mm MAX	22~12AWG	12N.m(MAX)

Installation instructions

Terminals spec	U Type of the width of the terminal	Wire installation specification	Max Torque
Copper terminals	15mm MAX	22~5AWG	12N.m(MAX)

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.