



▲ Features

AC input 180-264VAC

AC input active surge current limiting

Protections: short circuit/overload/over voltage/over temperature

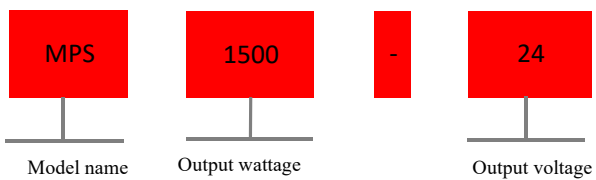
Forced air cooling by built-in DC ball bearing fan

High power density 7.8w/in³

With DC OK signal output

2 years warranty

▲ Model Encoding



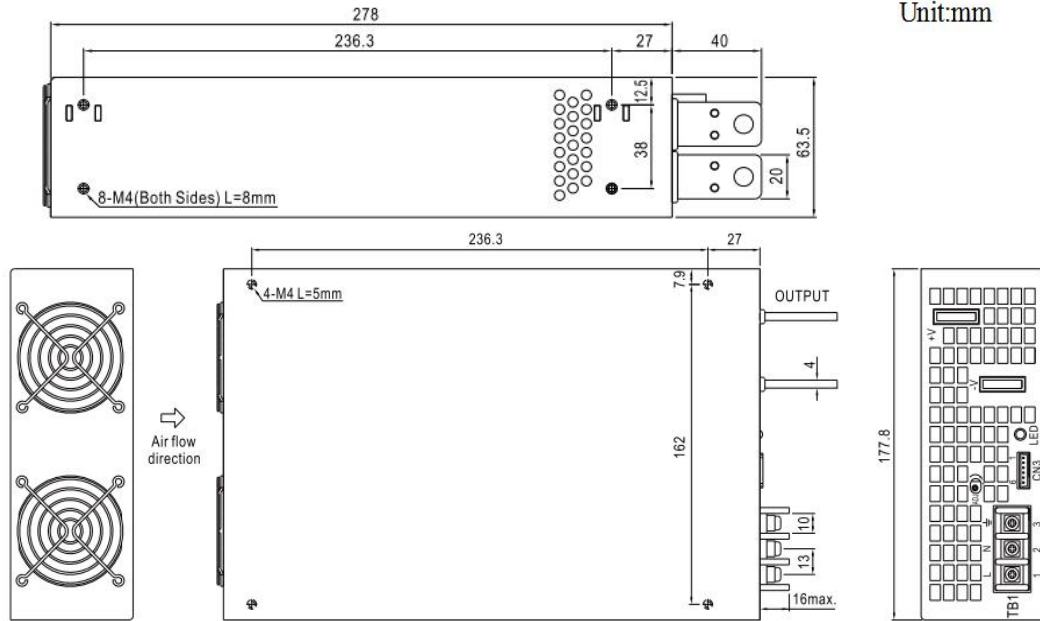


Specification

Input						
Voltage range	180-264VAC or 254-370VDC					
AC current	17.5A/230VAC					
Frequency range	47-63Hz					
Inrush current (max)	60A/230VAC					
Output						
DC voltage (V)	5V	12V	15V	24V	27V	48V
Voltage ADJ.range	3.3-5.5V	10.8-13.5V	13.5-16.5V	21.6-26.4V	25-30V	43.2-56V
Rated Current(A)	300A	125A	100A	62.5A	55.6A	31.3A
Rated power(W)	1500W	1500W	1500W	1500W	1501.2W	1502.4W
Ripple & noise(max) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p
Voltage tolerance Note.3	±2%	±1%	±1%	±1%	±1%	±1%
Line regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load regulation	±2%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	81%	85%	85%	87%	88%	89%
Setup, rise time	150ms 12ms/230VAC(at full load)					
Hold up time	26ms/230VAC (at full load)					
Status indicator	Green LED					
Protection						
Overload	105%-125% rated output power Protection type: shut down o/p voltage,re-power on to recover					
Over voltage(V)	5.75-6.75V	14.5-16.2V	18-21V	27.6-32.4V	31-35V	57.6-67.2V
	Protection type: shut down o/p voltage,re-power on to recover					
Over temperature	90°C±5°C (5V) ,85°C±5°C (12V,15V) ,80°C±5°C (24V) ,75°C±5°C (27V,48V) (TSW1: radiator for detection of output diode) Protection type: Shut down o/p voltage,recovers automatically after temperature goes down					
DC OK signal	PSU turn on : 3.3-5.6V PSU turn off: 0-1V					
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//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	
EMC immunity	Harmonic Current	EN IEC 61000-3-2			Design refer to Class A	
	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~+70 °C (Refer to "Derating curve ")					
Storage temperature	- 40~+85°C					
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	≥134.5K hrs MIL-HDBK-217F(25°C)	
Installation	Attachment: installation accessories	
Protection class	IP20	
Weight	About 2.5kg	
Length*width*height	278*177.8*63.5mm	
Data	Details	Model name
	MPS 1500W 300A/5V	MPS1500-05
	MPS 1500W 125A/12V	MPS1500-12
	MPS 1500W 100A/15V	MPS1500-15
	MPS 1500W 62.5A/24V	MPS1500-24
	MPS 1501.2W 55.6A/27V	MPS1500-27
	MPS 1502.4W 31.3A/48V	MPS1500-48

Installation Instruction



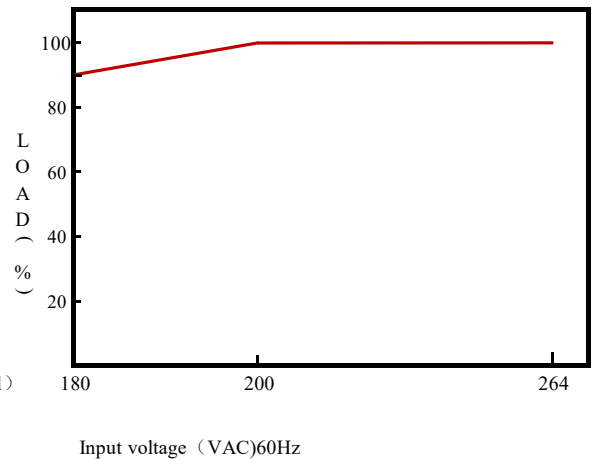
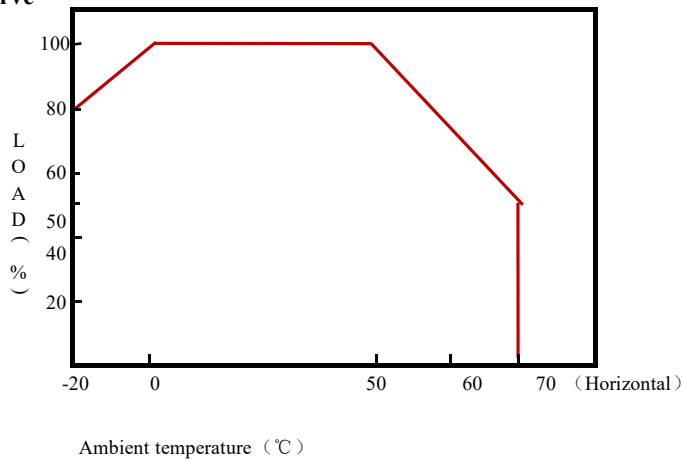
Terminal pin distribution

Pin number	Pin function
1	AC/L
2	AC/N
3	FG \perp

Pin position definition of lead control terminal (CN3) :

Pin number	Pin function	Pin number	Pin function
1	DC_OK Signal	4	+S
2	DC_OK GND	5	RC-
3	-S	6	RC+

Derating curve



Note:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHZ of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor."
- Tolerance: includes set up tolerance, line regulation and load regulation.
- The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft)