

MTS200-□ Series



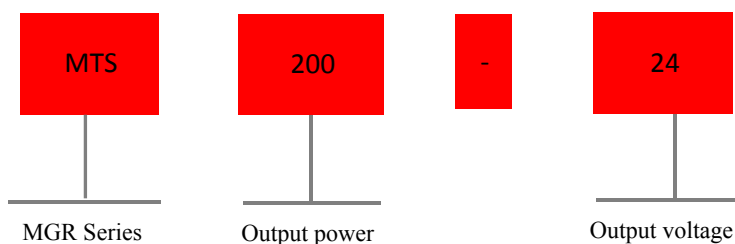
▲ Features

- Withstand 300VAC surge input for 5 second
- Protections: Short circuit / Overload / Over voltage /Over temperature
- Cooling by free air convection
- 1U low profile
- Withstand 5G vibration test
- LED indicator for power on
- 100% full load burn-in test
- Operating altitude up to 5000 meters
- High efficiency, long life and high reliability
- 3 years warranty

▲ Applications

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

▲ Model code

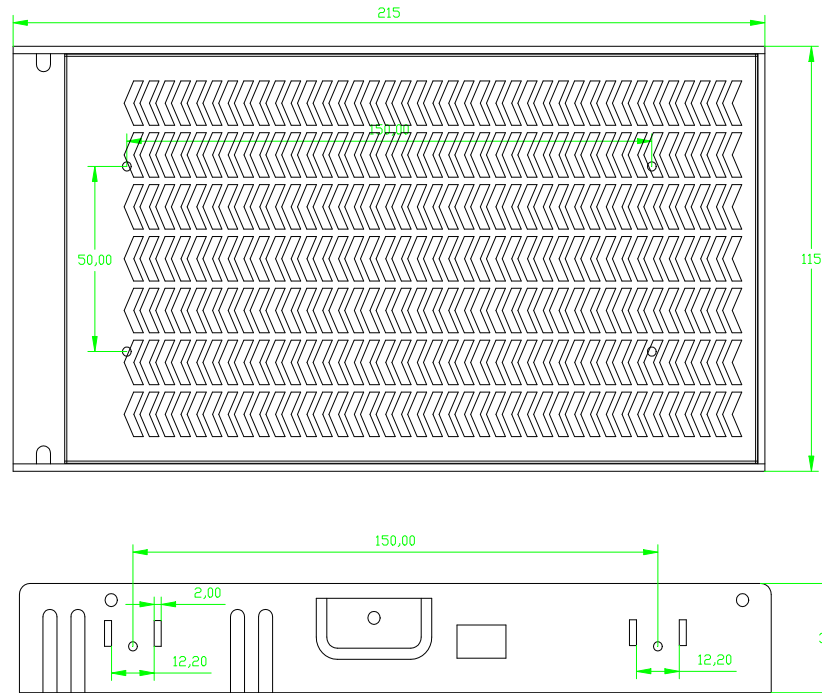




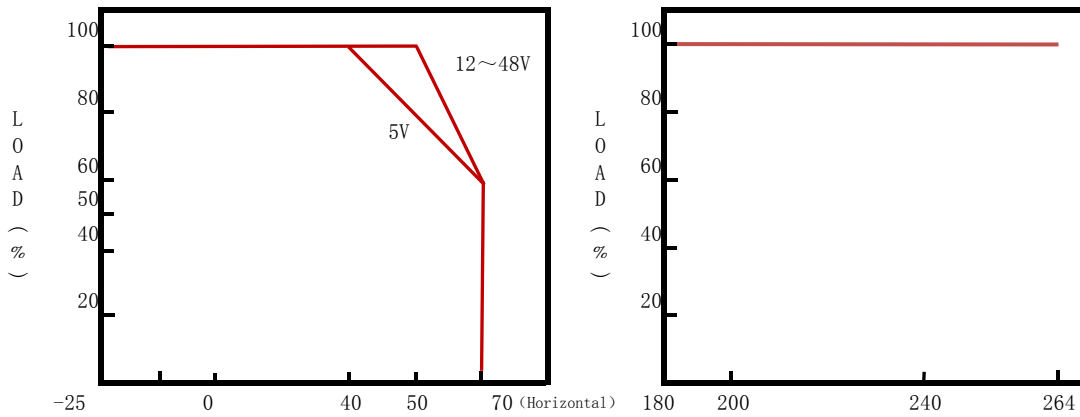
Electrical specifications

Input parameter					
Voltage range	180-264VAC 240-370VDC				
AC current	2.2A/230VAC				
Frequency range	47-63Hz				
Inrush current (max)	Cold start: 60A/230VAC				
Output parameter					
DC voltage (V)	5V	12V	24V	36V	48V
Efficiency	85%	87%	88%	89%	89%
Rated Current (A)	40A	17A	8.8A	5.9A	4.4A
Voltage adj.range	±10%				
Rated power(W)	200W	204W	211.2W	212.4W	211.2W
Ripple & noise(max) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
Voltage tolerance Note.3	±3%	±1.5%	±1%	±1%	±1%
Line regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load regulation Note.5	±2%	±1%	±0.5%	±0.5%	±0.5%
Setup, rise time	1300ms 50ms/230VAC (at full load)				
Hold up time	16ms/230VAC (at full load)				
Status indicator	Green LED				
Protect function					
Overload	The rated output power is 110%-140%				
	Protection mode: Hiccup mode, recovers automatically after fault condition is removed				
Over voltage(V)	5.75-6.75V	13.8-16.2V	28.8-33.6V	41.4-46.8V	55.2-64.8V
	Protection mode:Hiccup mode, recovers automatically after fault condition is removed				
Over temperature	Turn off output, return to normal temperature and return to normal.				
Safety and electromagnetic compatibility					
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°C/70 % RH				
Safety specification	60950-1、GB4943.1				
EMC emission	Design Reference EN55022(CISPR22)Class B,EN61000-3-2,-3				
EMC immunity	Design Reference EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-1, light industry level, criteria A				
Environmental parameters					
Working temperature	- 25~+70 °C (Refer to "Derating curve ")				
Storage temperature	- 40~+85°C				
Storage humidity	10-95 % RH				
Vibration	10-500Hz,2G 10 min/cycle X,Y,Z axis 60 minutes.				
The other parameters					
Mean time between failure	327.9K hrs min,MIL-HDBK-217F(25°C)/300W≥347.5K hrs				
Installation	Back-mounted or accessories front-mounted				
Protection class	IP20				
Weight	0.66kg				
Length*width*height	215*115*30				
Order data	Parameters to describes	Order type			
	MTS 200W 40A/5V	MTS200-05S			
	MTS 204W 17A/12V	MTS200-12S			
	MTS 211.2W 8.8A/24V	MTS200-24S			
	MTS 212.4W 5.9A/36V	MTS200-36S			
	MTS 211.2W 4.4A/48V	MTS200-48S			
Accessories available	Parameters to describes	Order type			
	Flat mounting/two packs	MF-TS350H			
	L type installation/two packs	MF-TS350L			

Installation diagram



Derating curve



- Note:**
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated 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. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set uptime.
 7. The 140% peak load capability is built in for up to 1 second for 12~48V. MTS-200 will enter hiccup mode if the peak load is delivered for over 1 second and will recover once it resumes to the rated current level.
 8. The ambient temperature derating of 5°C /1000m is needed for operating altitude greater than 2000m(6500ft).