MTS350-□ Series

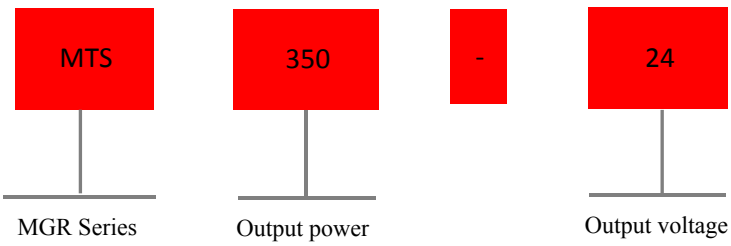
▲ Features

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



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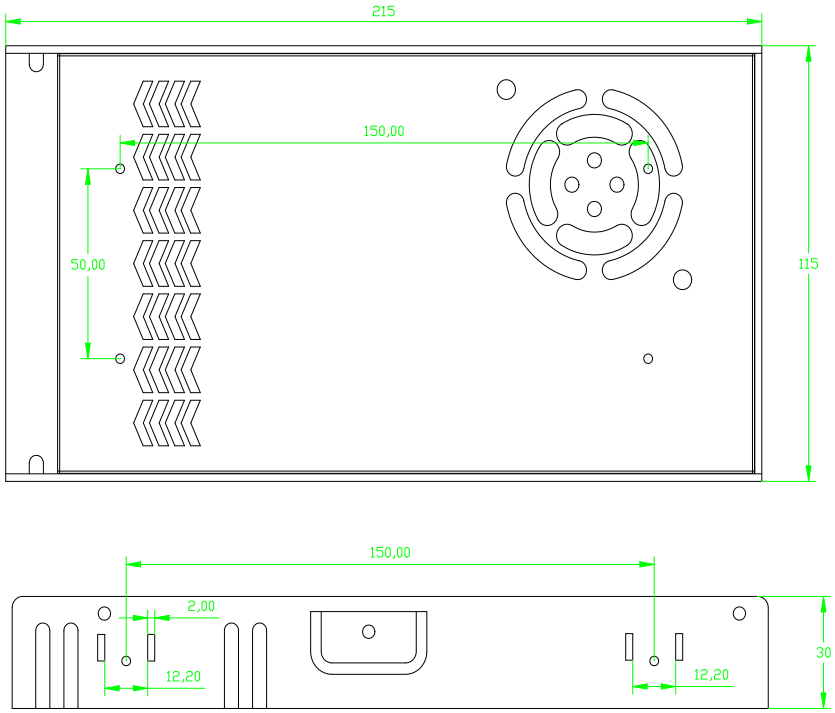
Electrical specifications

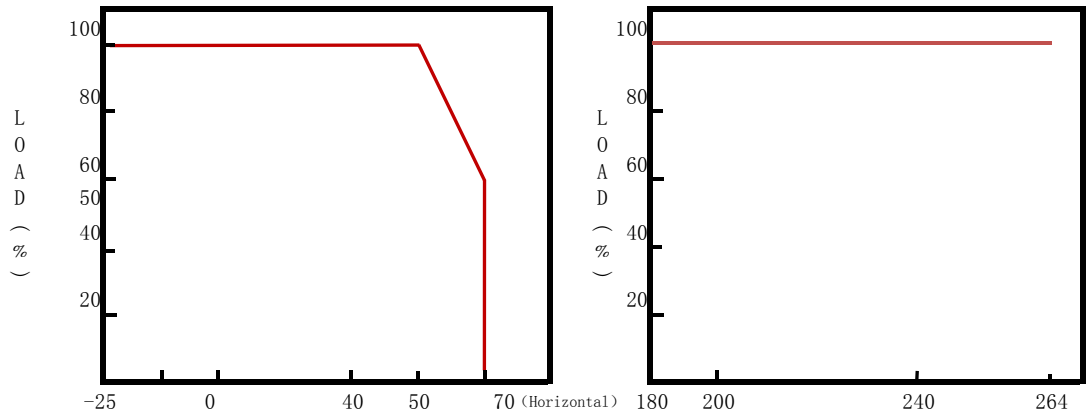
Input parameter					
Voltage range	180-264VAC 240-370VDC				
AC current	3.4A/230VAC				
Frequency range	47-63Hz				
Inrush current (max)	60A/230VAC				
Output parameter					
DC voltage (V)	5V	12V	24V	36V	48V
Efficiency	83.50%	85%	88%	88.50%	89%
Rated Current (A)	60A	29A	14.6A	9.7A	7.3A
Voltage adj.range	±10%				
Rated power(W)	300W	348W	350.4W	349.2W	350.4W
Ripple & noise(max)Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
Voltage tolerange 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℃/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 ℃ （Refer to "Derating curve "）				
Storage temperature	- 40～+85℃				
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℃)/300W≥347.5K hrs				
Installation	Back-mounted or accessories front-mounted				
Protection class	IP20				
Weight	0.76Kg				
Length*width*height	215*115*30				

Order data	**Parameters to describes**	**Order type**
	MTS 300W 60A/5V	MTS350-05
	MTS 348W 29A/12V	MTS350-12
	MTS 350.4W 14.6A/24V	MTS350-24
	MTS 349.2W 9.7A/36V	MTS350-36
	MTS 350.4W 7.3A/48V	MTS350-48
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.MTS350will enter hiccup mode if the peak load is deliveredfor 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).