Mibbo

MRS350-□ Series

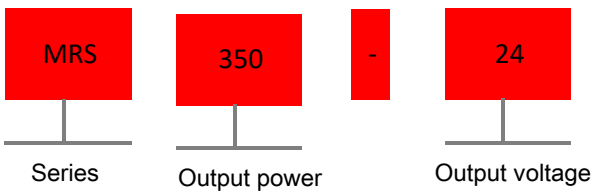
▲ Features

Superior performance with small ripple
Remote detect output short circuit
Protections:Short circuit/Overload/Over voltage/Over temp.
LED indicator for power ON
Can be installed on DIN rail TS35 with optional mounting
Transient overload capacity: 110%-150%
Forced cooling by built-in intelligent fan
Vibration resistance
3-M4 mounting holes for easy and stable installation
Conformal coating for harsh environment application
Terminal with protective cover
All aluminum case
Surge protection
3-year warranty

▲ Applications

Industrial automation control syst
Intelligent control system
Electronic instruments and device
LED control
Household appliances

▲ Model encoding



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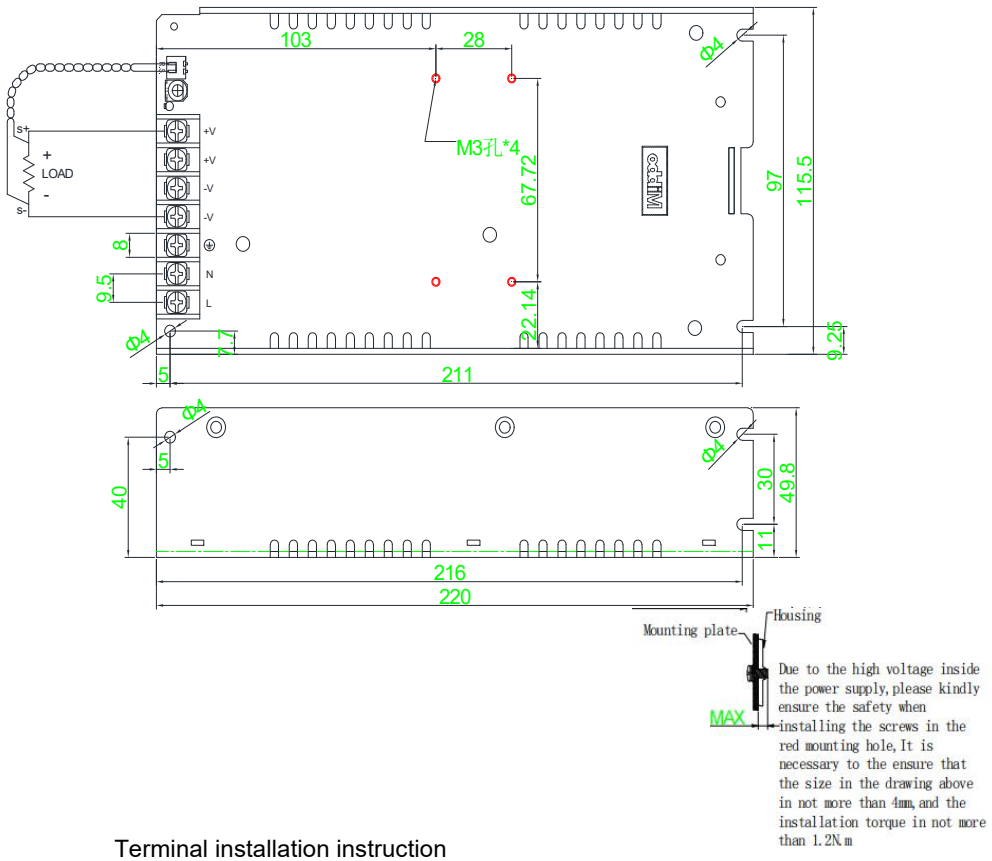
Specification

Input			
Input voltage	176-264VAC 250-370VDC		
AC current	4A/230VAC		
Frequency range	47-63Hz		
Inrush current(max.)	60A/230VAC		
Output			
DC voltage	24V	48V	
Efficiency	87%	88%	
Voltage ADJ. range	±10%		
Rated current	14.6A	7.3A	
Rated power	350.4W	350.4W	
Ripple & noise(max.) *2	150mVp-p	240mVp-p	
Voltage tolerance *3	±1%	±1%	
Line regulation *4	±1%	±1%	
Load regulation *5	±1%	±1%	
Start up, rise time	1000ms 50ms/230VAC (@Full load)		
Hold up time	20ms/230VAC (@Full load)		
Status indicator	Green LED		
Protection			
Overload	110%-150% of rated output power		
	Constant current limiting, recover automatically after the fault condition is removed		
Over voltage	27.6-32.4V	57.6-67.2V	
	Shut down O/P voltage, re-power ON to recover		
Short circuit	Shut down O/P voltage when short circuit occur. This fault can be detected remotely and trigger protection if R.S. terminal has been connected to the load repectively.		
Intelligent fan	The fan will operate to dissipate when the temperature up to 40℃		
Over temperature	Shut down O/P voltage, recover automatically after the temperature goes down		
Safety & 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 *6	Design refer to EN IEC 62368-1、GB4943.1		
EMC emission	**Parameter**	**Standard**	**Test level**
	Conducted	EN 55032	Design refer to Class A
	Radiated	EN 55032	Design refer to 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:
Environment			
Operating temperature	－25～+60℃（＞50℃ please refer to Derating Curve）		
Storage temperature	－40～+85℃		
Storage humidity	10-95％RH		
Vibration	10-500Hz,2G 10min/1 cycle, 60 min along with each X,Y,Z axes		
Others			
MTBF	≥234K hrs,MIL-HDBK-217F(25℃)		
Installation	Panel mounting or DIN rail TS35 installation with optional accessory		
Protection class	IP20		
Weight	~0.87Kg		
Dimension(L*W*H)	220*115.5*50mm		
Ordering	**Description**	**Model**	
	MRS 350.4W 14.6A/24V	MRS350-24	
	MRS 350.4W 7.3A/48V	MRS350-48	
Accessory	**Description**	**Model**	
Mounting bracket	DIN rail mounting bracket	MPS-F050B	

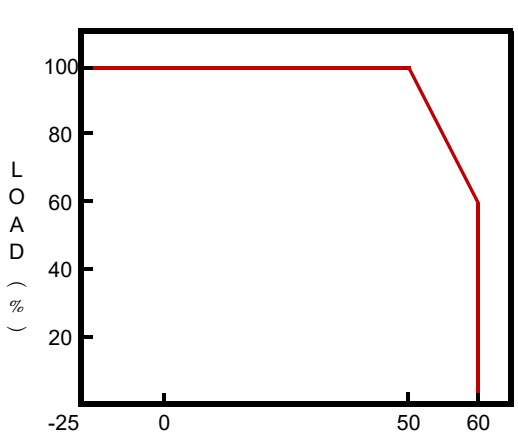
Installation instruction

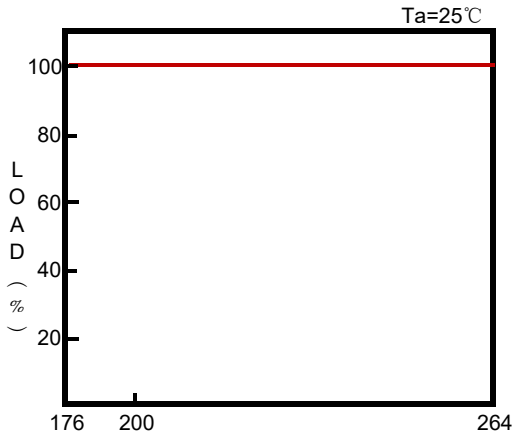


Terminal installation instruction

Terminal type	Width of U-terminal	Wire	Max. torque
95 terminal	8mm max.	22-12AWG	1.2N.m(Max.)

Derating curve





Note:
1: All parameters are measured at 230VAC input,rated load and 25℃ of ambient temperature unless otherwise specified
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% of rated load
6：According to GB4943.1，the power supply is only used in area which altitude lower than 2000m and non-tropical climates