

MTS100-□F Series



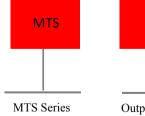
▲ Features

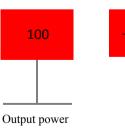
No load power consumption < 0.3W
Withstand 300VAC surge input for 5 second
Miniature size and 1U low profile
High operating temperature up to 70°C
Protections:short circuit/overload/over voltage
Universal AC input /Full range
Withstand 5G vibration test
High effciency,long life and high reliability
Cooling by free air convection
Operating altitude up to 5000meters
LED indicator for power on
100% full load burn-in test
3 years warranty

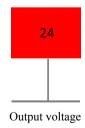
▲ Applications

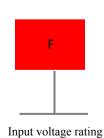
Industrial automation control system
Intelligent control system
Electronic instruments and devices
LED control
Household appliances

▲ Model code







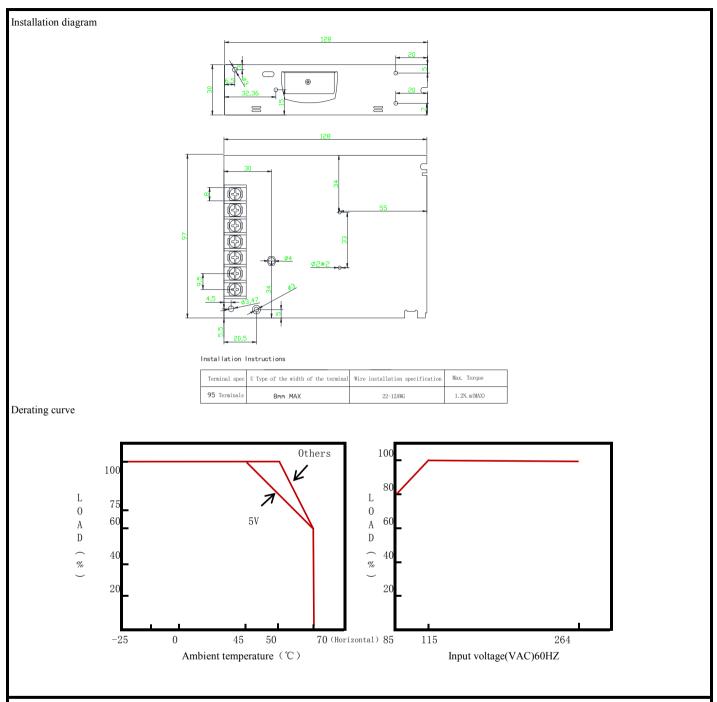




Electrical specifications

Electrical specifications					
Input parameter					
Voltage range	85-264VAC 120-373VDC				
AC current	1.9A/115VAC 1.2A/230VAC				
Frequency range	47-63Hz				
Inrush current (max)	50A/230VAC				
Output parameter					
DC voltage (V)	5V	12V	15V	24V	
Efficiency	86%	88%	88%	88%	
Rated Current (A)	13A	8.5A	7A	4.5A	
Voltage adj.range	±10%				
Rated power(W)	65W	102W	105W	108W	
Ripple & noise(max)Note.2	100mVp-p	120mVp-p	120mVp-p	150mVp-p	
Voltage tolerange Note.3	±2%	±1%	±1%	±1%	
Line regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	
Load regulation Note.5	±1%	±0.5%	±0.5%	±0.5%	
Setup, rise time	1000ms 30ms/230VAC 2000ms 30ms/115VAC(at full load)				
Hold up time	50ms/230VAC 46ms/115VAC(at full load)				
Status indicator	Green LED				
Protect function					
Overload	The rated output power is 110%-150%				
	Protection mode: Hiccup mode, recovers automatically after fault condition is removed				
Over voltage(V)	5.75-6.75V	13.8-16.2V	18.75-21.75V	28.8-33.6V	
	Protection mode:Hiccup mode,	recovers automatically after t	fault condition is removed		
Safety and electromagnetic com	upatibility				
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°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			<u> </u>		
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	720.6K hrs min MIL-HDBK-217F(25°C)				
Installation	Back-mounted				
Protection class	IP20				
Weight	0.3kg				
Length*width*height	128*97*30				
Order data	Parameters to describes Order type				
	MTS 65W 13A/5V		MTS100-05F		
	MTS 102W 8.5A/12V		MTS100-12F		
	MTS 105W 7A/15V		MTS100-12F		
	MTS 108W 4.5A/24V		MTS100-24F		
	11110 100 H T.3A/2T V		11110100 271		





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 ambient temperature derating of 5 °C/1000m is needed for operating altitude greater than 2000m(6500ft).