

XM-CT-400 Series 400W Long Strip Waterproof Power Supply

Features

1. AC input range: 200~240VAC
2. Withstands 300VAC surge input for 5 seconds
3. Fully waterproof for circuit components, stronger adaptability
4. Protection types: Short circuit / Overload / Over voltage
5. Low cost, high reliability
6. 100% full-load aging test
7. 3-year warranty



Electrical Specifications

Output

Item	XM-CT-400-12V	XM-CT-400-24V
DC Voltage	12V	24V
Rated Current	25A	16.6A

Item	XM-CT-400-12V	XM-CT-400-24V
Current Range	0-26.6A	0-16.6A
Rated Power	400W	400W
Ripple & Noise (Max.) Note2	120mv	200mv
Voltage Adjustment Range	/	/
Voltage Accuracy Note3	±1%	±1%
Line Regulation	±1%	±1%
Load Regulation	±1%	±1%
Start-up, Rise Time	<3S	
Hold-up Time (Typ.)	> 20ms	

Input

Item	XM-CT-400-12V	XM-CT-400-24V
Voltage Range	176-264V	
Frequency Range	50-60Hz	
Efficiency (Typ.)	89%	90%

Item	XM-CT-400-12V	XM-CT-400-24V
AC Input Current (Typ.)	<4A	
Surge Current (Typ.)	50A	
Leakage Current	<5mA/240VAC	

Protection

Item	XM-CT-400-12V	XM-CT-400-24V	
Over Load	110%~140% of rated output power	130% to 180% of the rated output power	120%~160% of rated output power
	Protection mode: hiccup mode, auto-recovery after abnormal load removed		
Over Voltage	13.8~16.2V	27.6~32.4V	
	Protection mode: hiccup mode, auto-recovery after abnormal condition removed		
Over Temperature	Cut off output voltage, auto-recovery after temperature drops		

Environment

Item	Parameter
Operating Temp.	-30~+60°C (Refer to derating curve)
Operating Humidity	20 ~ 90% RH, non-condensing
Storage Temp. & Humidity	-30 ~ +85°C, 10 ~ 95% RH
Temperature Coefficient	±0.05%/°C (0~50°C)
Vibration Resistance	10 ~ 500Hz, 3G 10min/cycle, 60min for each of X, Y, Z axis

Safety & EMC

Item	Parameter
Safety Standard	UL60950-1, GB4943.1-2011
Withstand Voltage	I/P-O/P:3KVAC; I/P-FG:2KVAC; O/P-FG:0.5KVAC
Insulation	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C

Item	Parameter
Resistance	/70% RH
EMI Emission	Designed refer to EN55022 (CISPR22) class A, EAC TP TC 020
EMI Immunity	Designed refer to EN61000-4-5, Class A industrial standard, EAC TP TC 020

Others

Item	Parameter
MTBF	321,040Khrs min. MIL-HDBK-217F (25°C)
Dimension	2307638 (LWH)
Packing	/