

MCHQ250V-E series

250W LED Switching Power Supply (CV)



■ Features:

- European AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in active PFC function
- IP67 design for indoor and outdoor appliances
- Compliance to worldwide regulations for lighting



◎ ELECTRICAL SPECIFICATION

MODEL	MCHQ250V12-E	MCHQ250V24-E
OUTPUT		
Rated Voltage	12V	24V
Rated Current	20A	10.4A
Rated Power	240W	249.6W
No load Voltage (max.)	12.6V	25.2V
Line Regulation	± 1%	
Load Regulation	± 2%	
Tolerance	[2] ± 3%	
Ripple & Noise (max.)	[3] 300mV _{p-p}	300mV _{p-p}
Setup, Rise, Holdup time	[4] 300ms, 50ms, 5ms	
INPUT		
Voltage Range	200 ÷ 277VAC	
Frequency Range	47 ÷ 63Hz	
Power Factor (typ.)	PF > 0.9 / 230VAC pod pełnym obciążeniem	
Efficiency (typ.)	90%	90%
AC current (typ.)	1.6A / 230VAC	
Inrush current (max.)	75A / 230VAC(25°C)	
No load power consumption (max.)	<0.5W	
OUTPUT		
Overload	Range: 105 ÷ 150%	
	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.	
Over Voltage	Max. 18V	Max. 36V
	Type: shut down output voltage. Re-power on to recovery.	
Over Temperature	Range: 110°C ± 10°C	
	Type: shut down output voltage. Recovers automatically after fault condition is removed.	

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WORKING ENVIRONMENT

Working Temperature	-40°C ÷ +50°C, max t _c = 90°C
Working Humidity	45 ÷ 85% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ +80°C, 10 ÷ 95% RH non-condensing
Working noise	<35dB at full load, pickup 10cm distance from product

SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN61347-1, EN61347-2-13
Withstand Voltage	IN/OUT: 5.3kVDC/1min
Isolation Resistance	IN/OUT; IN/GND; OUT/GND: 50MΩ/500VDC/25°C/70%
EMC Emission	Compliance to EN55015 – TUV certificate
EMC Immunity	Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6
Harmonic Current	Compliance to EN61000-3-2 class C

OTHERS

Lifetime	50 000h at full load and max. Rated ambient temperature
Dimensions	221 x 61.5 x 36.5mm (L x W x H)
Weight and Packing	0.88kg; 10pcs./box; box dimensions: 26.5 x 19 x 25.5cm

EAN Code	 5 9 0 2 1 3 5 1 1 2 3 1 9 5	 5 9 0 2 1 3 5 1 1 2 3 2 0 1
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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 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

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