

MCHQ320V-E series

320W 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	MCHQ320V12-E		MCHQ320V24-E	
OUTPUT				
Rated Voltage	12V		24V	
Rated Current	25A		13.4A	
Rated Power	300W		321.6W	
No load Voltage (max.)	12.6V		25.2V	
Line Regulation	± 1%			
Load Regulation	± 2%			
Tolerance	[2]	± 3%		
Ripple & Noise (max.)	[3]	350mV _{p-p}	400mV _{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.)	2A / 230VAC			
Inrush current (max.)	100A / 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.			

MCHQ320V-E series

320W LED Switching Power Supply (CV)



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	225.2 x 73.5 x 38mm (L x W x H)
Weight and Packing	1.1kg; 10pcs./box; box dimensions: 26.5 x 21.5 x 25.5cm

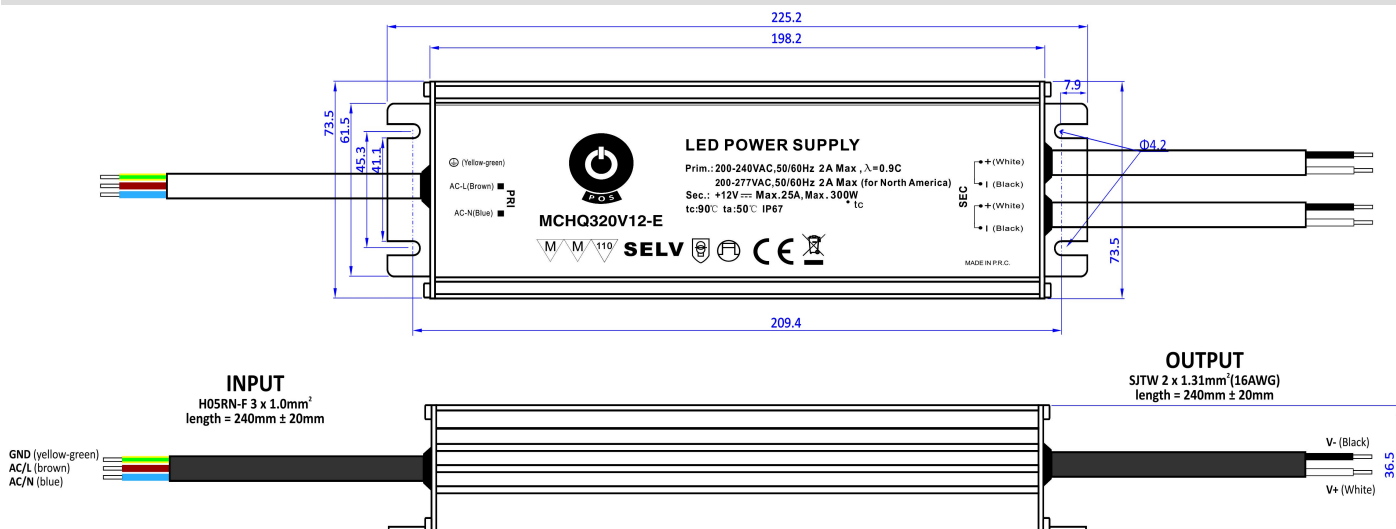
EAN Code



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.

© MECHANICAL SPECIFICATION

MCHQ320V12-E



MCHQ320V-E series

320W LED Switching Power Supply (CV)



MCHQ320V24-E

