

# IN-250-IP 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	IN-250-12-IP	IN-250-24-IP
<b>OUTPUT</b>		
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 <sub>p-p</sub>	300mV <sub>p-p</sub>
Setup, Rise, Holdup time	[4] 300ms, 50ms, 5ms	
<b>INPUT</b>		
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	
<b>OUTPUT</b>		
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

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

## SAFETY AND EMC REGULATIONS

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

## OTHERS

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

