

# CLD-2412-T2-E series

24W Switching Power Supply



## ■ Features:

- Constant voltage design
- European AC input
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Isolation class II



## Ⓞ ELECTRICAL SPECIFICATION

MODEL	CLD 2412 T2 E
<b>OUTPUT</b>	
Rated Voltage	12V
Rated Current	2A
Rated Power	24W
Line Regulation	± 1%
Load Regulation	± 2%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	180 mV <sub>P-P</sub>
Setup, Rise Time [4]	300ms, 20ms / 230VAC at full load
Hold up Time	50ms / 230VAC at full load
<b>INPUT</b>	
Voltage Range	100 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	82.5%
AC Current (typ.)	0.7A / 115VAC, 0.35A / 230VAC
<b>PROTECTIONS</b>	
Overload	Range: 110 ÷ 150% rated current
	Type: hiccup mode, auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over voltage	18 ÷ 25VDC
	Type: hiccup mode, auto-recovery.
Over temperature	140°C±10°C(detect on main control IC)
	Type: hiccup mode, auto-recovery.

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## WORKING ENVIRONMENT

<b>Working Temperature</b>	0°C ÷ 40°C
<b>Working Humidity</b>	5 ÷ 95% RH non-condensing
<b>Storage Temperature and Humidity</b>	-20°C ÷ 85°C, 5 ÷ 95% RH non-condensing

## SAFETY AND EMC REGULATIONS [5]

<b>Safety Standards</b>	Compliance to EN60950-1
<b>Withstand Voltage</b>	I-P/O-P: 3.0kVAC; I-P/GND: 1.5kVAC; O-P/GND: 0.5kVAC
<b>EMC Emission</b>	Compliance to EN55022
<b>EMC Immunity</b>	Compliance to EN55024
<b>Harmonic Current</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

<b>Dimensions</b>	85 x 89 x 35.5 x 27.5mm (length x total length x width x height)
<b>Weight and Packing</b>	0.2kg; 50pcs./ctn; ctn weight and dimensions: 11.5kg; 48.5 x 32.5 x 40cm

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. According to EN61204-3 standard power supply is considered as component not indented to apply by end-user. It might turn out to use additional EMI filter (eq. 061B2S) or/and ferite cores (eq. 74271222) mounted on input and output wires to achieve compliance with EMC standards. The final equipment with power supply must be re-quality to comply with EMC Directives.

## MECHANICAL SPECIFICATION

