CLD 12024 T2 E series

120W Constant Voltage Desktop Type Switching Power Supply

■ **Features:**

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

ELECTRICAL SPECIFICATION

MODEL	CLD 12024 T2 E
OUTPUT	
Rated Voltage	24V
Rated Current	5A
Rated Power	120W
Line Regulation	± 2%
Load Regulation	± 5%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	480mV$_{P-P}$
Setup, Rise Time [4]	4 s, 20 ms / 230VAC at full load
Hold up Time	50 ms / 230VAC at full load
INPUT	
Voltage Range	90 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	85%
AC Current (typ.)	2.14 A / 115VAC, 1.0 A / 230VAC
PROTECTIONS	
Overload	Range: 110 ÷ 150% rated current
	Type: hiccup mode, auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over voltage	18 ÷ 25VDC
	Type: shut down output voltage. Re-power on to recovery.

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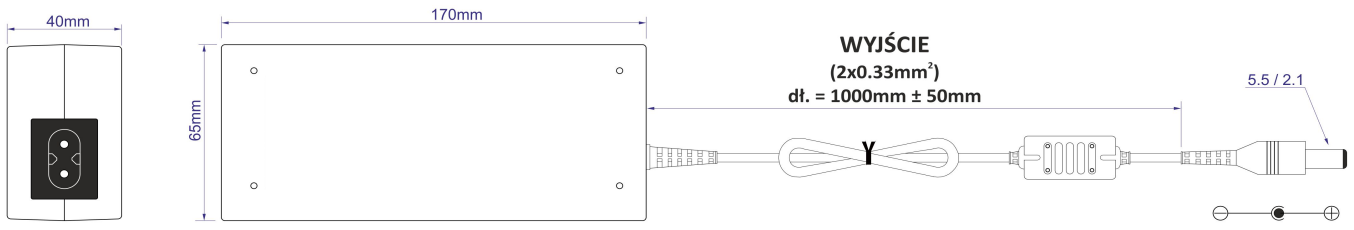
WORKING ENVIRONMENT	
Working Temperature	0°C ÷ 40°C
Working Humidity	5 ÷ 95% RH non-condensing
Storage Temperature and Humidity	-20°C ÷ 85°C, 5 ÷ 95% RH non-condensing
SAFETY AND EMC REGULATIONS [5]	
Safety Standards	Compliance to EN 62368-1
Withstand Voltage	I-P/O-P: 5.3 kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN61000-4-2, -3, -4, -5
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2
OTHERS	
Dimensions	170 x 65 x 40 mm (length x width x height)
Weight and Packing	0.39kg; 30pcs./ctn; ctn weight and dimensions: 15kg; 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. 06IB2S) or/and feriite 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



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