

EA 10202D1 series

24W Waterproof 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
- Compact size
- Low price



Ⓢ ELECTRICAL SPECIFICATION

MODEL	EA 10202D1
OUTPUT	
Rated Voltage	12V
Rated Current	2A
Rated Power	24W
Line Regulation	± 1%
Load Regulation	± 2%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	180 mV _{p-p}
Setup, Rise Time [4]	300ms, 20ms / 230VAC at full load
Hold up Time	50ms / 230VAC at full load
INPUT	
Voltage Range	100 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	82.5%
AC Current (typ.)	0.7A / 115VAC, 0.35A / 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: hiccup mode, auto-recovery.
Over temperature	140°C±10°C(detect on main control IC)
	Type: hiccup mode, auto-recovery.

EA 10202D1 series

24W Waterproof Switching Power Supply



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

OTHERS

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

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 / 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 ferriite 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

