

EA 10502D1 series

42W Constant Voltage Switching Power Supply



■ Features:

- Constant voltage design
- Universal 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 10502D1
OUTPUT	
Rated Voltage	12V
Rated Current	3.5A
Rated Power	42W
Line Regulation	± 1%
Load Regulation	± 3%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	720 mV _{p-p}
Setup, Rise Time [4]	250ms, 10ms / 230VAC at full load
Hold up Time	50ms / 230VAC at full load
INPUT	
Voltage Range	100 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	85%
AC Current (typ.)	1.0A / 115VAC, 0.5A / 230VAC
PROTECTIONS	
Overload	Range: 150 ÷ 200% 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: shut down output voltage. Recovers automatically after temperature goes down.

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WORKING ENVIRONMENT

Working Temperature	0°C ÷ 40°C
Working Humidity	20 ÷ 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	115 x 50.5 x 31mm (length x width x height)
Weight and Packing	0.24kg; 50pcs./ctn; ctn weight and dimensions: 12.6kg; 48.5 x 32.5 x 40cm
EAN Code	 5 902135 122624

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 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.

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