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

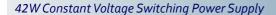




| © ELECTRICAL SPECIFICATION | | |
|----------------------------|---|--|
| MODEL | EA 10502D1 | |
| ОUТРUТ | | |
| Rated Voltage | 12V | |
| Rated Current | 3.5A | |
| Rated Power | 42W | |
| Line Regulation | ± 1% | |
| Load Regulation | ± 3% | |
| Tolerance [3] | ± 5% | |
| Ripple & Noise (max.) [2] | 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 0°C ÷ 40°C **Working Temperature 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 |

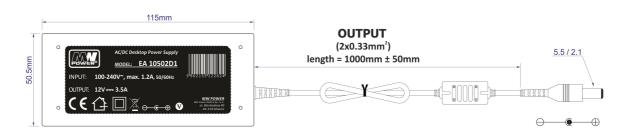
OTHERS

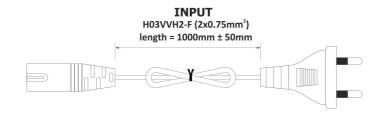
| Dimensions | 115 x 50.5 x 31mm (length x width x height) |
|--------------------|---|
| Weight and Packing | 0.24kg; 50pcs./ctn; ctn weight and dimensions: 12.6kg; 48.5 x 32.5 x 40cm |
| EAN Code | 51902135 1226624 |

- 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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