

EA 10100D1 series

100W 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
- Compact size
- Low price



ELECTRICAL SPECIFICATION

MODEL	EA 10100D1
OUTPUT	
Rated Voltage	12V
Rated Current	8.33A
Rated Power	100W
Line Regulation	± 2%
Load Regulation	± 5%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	600mV _{p-p}
Setup, Rise Time [4]	2000ms, 9ms / 230VAC at full load
Hold up Time	50ms / 230VAC at full load
INPUT	
Voltage Range	90 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	83%
AC Current (typ.)	1.6 A / 115VAC, 0.90 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 EN60950-1
Withstand Voltage	I-P/O-P: 5.3 kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55024
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

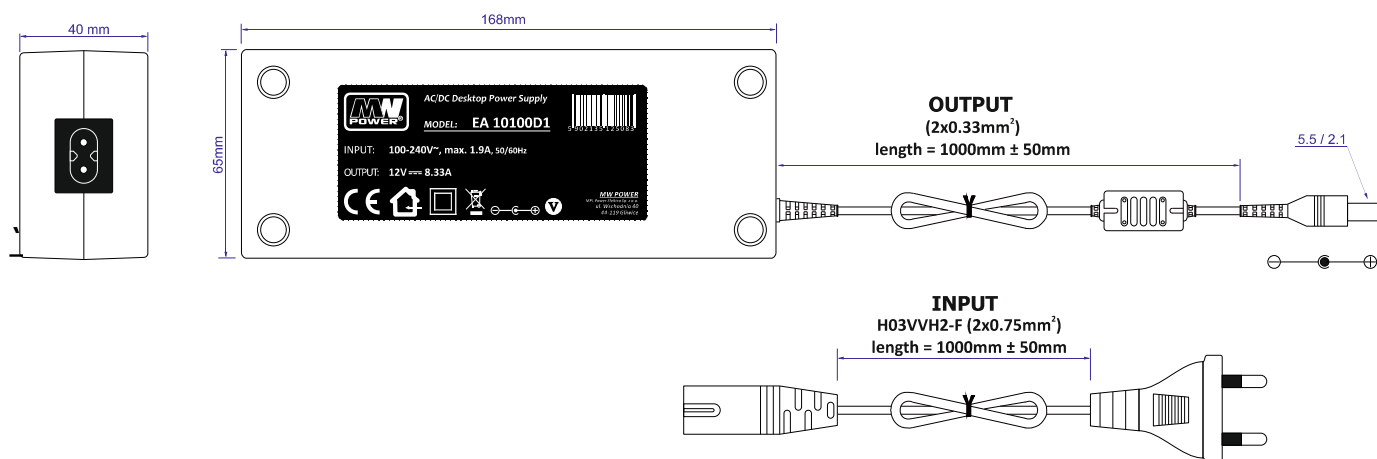
Dimensions	168 x 65 x 40mm (length x width x height)
Weight and Packing	0.49kg; 30pcs./ctn; ctn weight and dimensions: 17.5kg; 44.5 x 34.5 x 37.5cm

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 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.

© MECHANICAL SPECIFICATION



EU DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	EA 10100D1
Batch No.:	Y118xx

Is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied:

ROHS Directive 2011/65/EU

Energy-Related Products Directive 2009/125/EC; Commission Regulation (EC) No 278/2009

Low Voltage Directive 2014/35/UE:

Standard	Description
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013	Information technology equipment. Safety. General requirements

Electromagnetic Compatibility Directive 2014/30/UE:

Standard	Description
EN 55032:2012 + AC:2013	Electromagnetic compatibility of multimedia equipment. Emission Requirements.
EN 55024:2010	Information technology equipment. Immunity characteristics. Limits and methods of measurement.
EN61000-3-2:2014	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).
EN61000-3-3:2013	Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection.

Power supply is considered as component of final equipment not intended to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-qualified to comply with EMC and LVD Directives.