

ERD24W12V series

24W Constant voltage desktop type AC/DC adaptor



■ Features:

- Universal AC input / Full range
- Desktop type, Isolation class II design
 - IEC C320-C8 input AC socket
 - ErP step II / CEC level VI compliance
- No load power consumption $P < 0.1W$
- Protections: Overload / Short circuit / Over Voltage



ELECTRICAL SPECIFICATION

MODEL	ERD24W12V
OUTPUT	
Rated Voltage	12V
Rated Current	2A
Current Range	0 ÷ 2A
Rated Power	24W
Line Regulation	± 1%
Load Regulation	± 2%
Tolerance [3]	± 8%
Ripple & Noise (max.) [2]	200mV _{p-p}
Setup, Rise Time [4]	1030ms, 20ms / 230VAC at full load
Hold up Time (typ.)	60ms / 230VAC at full load
INPUT	
Voltage Range	90 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	84.6%
AC Current (typ.)	0.5A / 115VAC, 0.13A / 230VAC
No load Power Consumption (max.)	0.1W
PROTECTIONS	
Overload	Range: 105-200% Type: hiccup mode, auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over Voltage	16V Type: hiccup mode, auto-recovery.

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WORKING ENVIRONMENT

Working Temperature	0°C ÷ 35°C
Working Humidity	5 ÷ 95% RH non-condensing
Storage Temperature and Humidity	-20°C ÷ 85°C, 5 ÷ 90% RH non-condensing

SAFETY and EMC REGULATIONS

Safety Standards	Compliance to EN 60950-1
Withstand Voltage	IN/OUT: 3.6kVAC
Isolation Resistance	IN/OUT: 20MΩ/500VDC/25°C/70%
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

AC Inlet	IEC320-C8	
DC wire and plug	Wire: 20AWG*2C, length = 1500mm	Plug: 2.1/5.5, positive inside
MTBF	60 000h	
Dimensions	87.5 x 47.9 x 32.8mm (L x W x H)	
Net Weight	137.4g	

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

MECHANICAL SPECIFICATION

