

ERD18B series

18W 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: Over current / Short circuit / Over Voltage



ELECTRICAL SPECIFICATION

MODEL	ERD18BW15V
OUTPUT	
Rated Voltage	15V
Rated Current / Peak Current	1A / 2A
Current Range	0 ÷ 1A
Rated Power	15W
Line Regulation	± 1%
Load Regulation	± 5%
Tolerance [3]	± 8%
Ripple & Noise (max.) [2]	200mV _{p-p}
Setup, Rise Time [4]	5000ms, 30ms / 230VAC at full load
Hold up Time (typ.)	4ms / 230VAC at full load
INPUT	
Voltage Range	90 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	84.13%
AC Current (typ.)	0.45A / 115VAC, 0.28A / 230VAC
No load Power Consumption (max.)	0.1W
PROTECTIONS	
Over current	Range: $2.0A \leq OCP \leq 4.0A$ Type: hiccup mode, auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over Voltage	Type: auto-recovery.

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WORKING ENVIRONMENT

Working Temperature	0°C ÷ 55°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 EN62368-1
Withstand Voltage	IN/OUT: 3.0kVAC
Isolation Resistance	IN/OUT: 20MΩ/500VDC/25°C/70%
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55024
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

AC Inlet	IEC320-C8	
DC wire and plug	Wire: 24AWG*2C, length = 1500mm	Plug: 2.1/5.5, positive inside
MTBF	30 000h @ 230VAC/25°C/full load according to Telcordia SR-332	
Dimensions	85.37 x 47.37 x 28.5mm (L x W x H)	
Net Weight	0.1kg; 100pcs./ctn; ctn weight and dimensions: 12.5kg; 47 x 42 x 23.5cm	

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. 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.

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MECHANICAL SPECIFICATION

