

FEATURES

- Basic Isolation
- RoHS Compliant
- Typical Efficiency: 81%
- Single and Dual Outputs
- 2:1 Wide Input Voltage Range
- **Economy Version of JR Series**
- No Minimum Load Requirement
- Remote Control (48V Models Only)
- Trim Function (Single Outputs Only)
- Industry Standard Footprint: 2" x 1" x 0.4"
- Approved to IEC/EN60950, UL60950 Safety Standards
- Over Current & Short Circuit Protection (48V Single Output Models Only)



SPECIFICATIONS: *EJR Series*

All specifications apply @ ±25°C ambient unless otherwise noted



INPUT SPECIFICATIONS

Input Voltage Range 12V nominal input..... 9 - 18VDC
24V nominal input..... 18 - 38VDC
48V nominal input..... 36 - 75VDC

Remote Control (**for 48V input models only**)
(Positive Logic) High = on 3.5 to 10VDC
Low = off -0.7 to 0.8VDC
(Negative Logic) Low = on -0.7 to 0.8VDC
High = off 3.5 to 10VDC

Remote Control Current..... 2mA max. (positive logic)
4mA max. (negative logic)

OUTPUT SPECIFICATIONS

Output Current see table
Output Voltage see table
Voltage Adjustability (single outputs only)..... 90% to 110% V_o
Voltage Setpoint Accuracy..... ±1.0% V_o max.
Line Regulation ±0.2% V_o max.
Load Regulation..... 0.5% V_o max.
Maximum Power 10W
Ripple/Noise < 50mVp-p max. (12V & 24V inputs)
< 50mVp-p max. (48V input, dual output)
< 100mVp-p max. (48V input, single output)
Transient Response 200mV max.
Recovery < 200µs max.
(25% load step change from 50% I_o)
di/dt: 1A/10µs

PROTECTION (3.3V & 5V single output, 48V input models)

Over Current Protection (3.3V, 5V)..... > 120% I_o , auto-recovery
Short Circuit Protection (3.3V, 5V)..... Continuous, auto-recovery

GENERAL SPECIFICATIONS

Efficiency see table

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -40°C to +55°C (ambient)
Storage Temperature -55°C to +125°C
Operating Case Temperature -40°C to +100°C
Temperature Coefficient < ±0.02%/°C
MTBF > 2,000,000 hours

PHYSICAL SPECIFICATIONS

Dimensions 50.80(L) x 25.40(W) x 10.16(H) mm
2.0(L) x 1.0(W) x 0.4(H) inches
Weight 23.3g

SAFETY

Safety Standards IEC/EN60950, UL60950⁽⁵⁾

Due to advances in technology, specifications subject to change without notice



Wall Industries, Inc.

Rev G

EJR Series
Single & Dual Outputs
10 Watt DC/DC Converter
2:1 Wide Input Voltage Range
'Economy' Version of JR Series

OUTPUT VOLTAGE / CURRENT RATING CHARTS

SINGLE OUTPUT MODELS

Table with 6 columns: Model, Input Voltage, Output Voltage, Output Current, Efficiency, Technical Datasheet. Rows include models like EJR12S3.3-3000, EJR24S3.3-3000, EJR48S3.3-3000.

DUAL OUTPUT MODELS

Table with 5 columns: Model, Input Voltage, Output Voltage, Output Current, Efficiency. Rows include models like EJR12D5-1000, EJR24D5-1000, EJR48D5-1000.

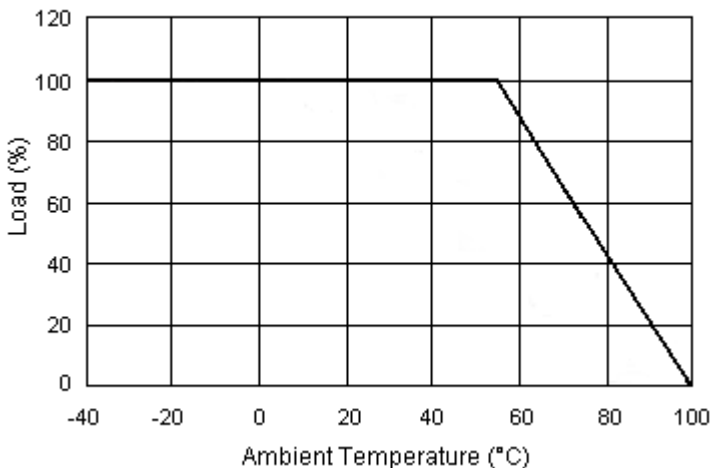
NOTES

- 1. To order models with Trim function add the suffix "-T" to the part number. This option is only available for single output models.
2. Remote Control is only available for 48V nominal input models.
3. For 48V nominal input models without the Remote ON/OFF pin add the suffix "-1" to the end of the part number.
4. Over Current and Short Circuit Protection are only available for the 3.3V single output and the 5V single output, 48V nominal input models.
5. This product is Listed to applicable standards and requirements by UL.

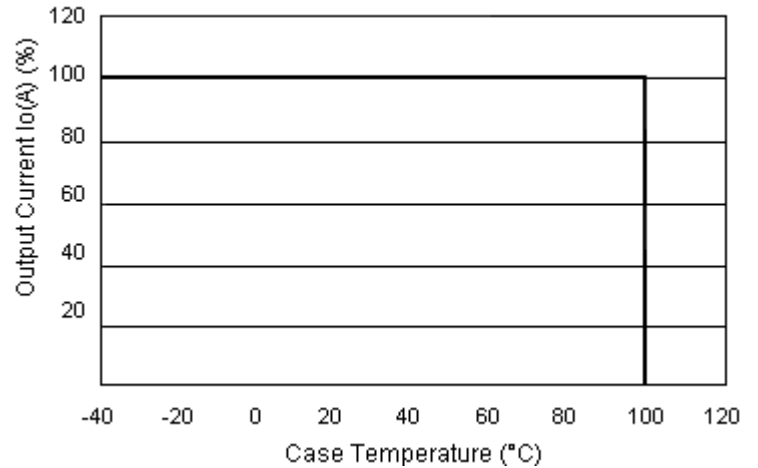
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DERATING CURVES

EJR24S5-2000 & EJ48S5-2000 DERATING CURVE

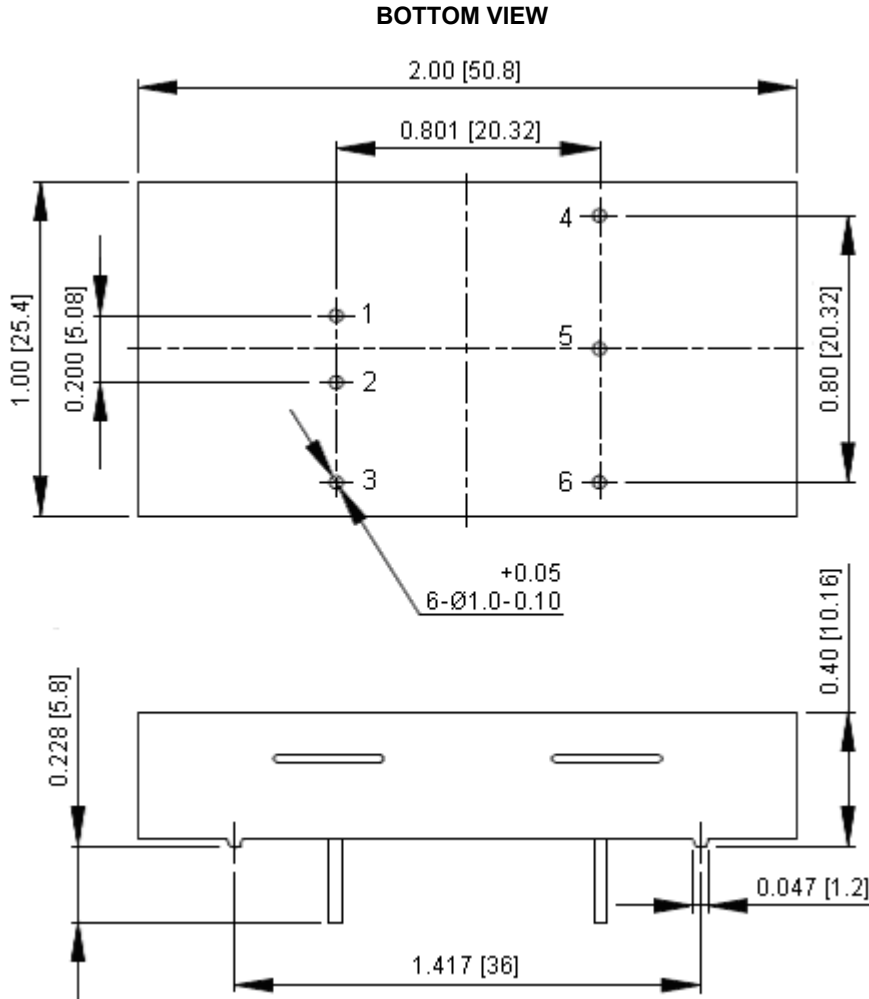


EJR24S5-2000 & EJ48S5-2000 DERATING CURVE



MECHANICAL DRAWING

Unit: inches [mm]



Tolerance: X.Xmm = ± 0.5 mm
X.XXmm = ± 0.25 mm

Pin Length: 5.8mm

PIN CONNECTIONS (12V & 24V INPUT MODELS)		
PIN #	SINGLE OUTPUT	DUAL OUTPUT
1	+Vin	+Vin
2	-Vin	-Vin
3	No Pin	No Pin
4	+Vo	+Vo
5	No Pin (Trim-optional)	COM
6	-Vo	-Vo

PIN CONNECTIONS (48V INPUT MODELS)		
PIN #	SINGLE OUTPUT	DUAL OUTPUT
1	+Vin	+Vin
2	-Vin	-Vin
3	Remote ON/OFF	Remote ON/OFF
4	+Vo	+Vo
5	No Pin (Trim-optional)	COM
6	-Vo	-Vo

PIN CONNECTIONS WITHOUT REMOTE ON/OFF PIN (48V INPUT MODELS)		
PIN #	SINGLE OUTPUT	DUAL OUTPUT
1	+Vin	+Vin
2	-Vin	-Vin
3	No Pin	No Pin
4	+Vo	+Vo
5	No Pin (Trim-optional)	Common
6	-Vo	-Vo



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COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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