

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)



RoHS
Compliant



SPECIFICATIONS: *EJR Series*

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



For 48V models only

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 $\pm 1.0\%$ V_o max.
Line Regulation $\pm 0.2\%$ 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 < 200 μ s max.
(25% load step change from 50% I_o)
di/dt: 1A/10 μ s

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 $< \pm 0.02\%/^{\circ}\text{C}$
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					
Model	Input Voltage	Output Voltage	Output Current	Efficiency	Technical Datasheet
EJR12S3.3-3000	12 VDC (9 – 18 VDC)	3.3 VDC	3000mA	76%	
EJR12S5-2000		5 VDC	2000mA	81%	
EJR12S12-830		12 VDC	830mA	82%	
EJR12S15-670		15 VDC	670mA	83%	
EJR24S3.3-3000	24 VDC (18 – 38 VDC)	3.3 VDC	3000mA	76%	
EJR24S5-2000		5 VDC	2000mA	81%	
EJR24S12-830		12 VDC	830mA	82%	
EJR24S15-670		15 VDC	670mA	83%	
EJR48S3.3-3000	48 VDC (36 – 75 VDC)	3.3 VDC	3000mA	77%	View PDF
EJR48S5-2000		5 VDC	2000mA	81%	View PDF
EJR48S12-830		12 VDC	830mA	83%	View PDF
EJR48S15-670		15 VDC	670mA	84%	View PDF

DUAL OUTPUT MODELS				
Model	Input Voltage	Output Voltage	Output Current	Efficiency
EJR12D5-1000	12 VDC (9 – 18 VDC)	±5 VDC	±1000mA	80%
EJR12D12-420		±12 VDC	±420mA	83%
EJR12D15-330		±15 VDC	±330mA	84%
EJR24D5-1000	24 VDC (18 – 38 VDC)	±5 VDC	±1000mA	80%
EJR24D12-420		±12 VDC	±420mA	83%
EJR24D15-330		±15 VDC	±330mA	84%
EJR48D5-1000	48 VDC (36 – 75 VDC)	±5 VDC	±1000mA	81%
EJR48D12-420		±12 VDC	±420mA	83%
EJR48D15-330		±15 VDC	±330mA	84%

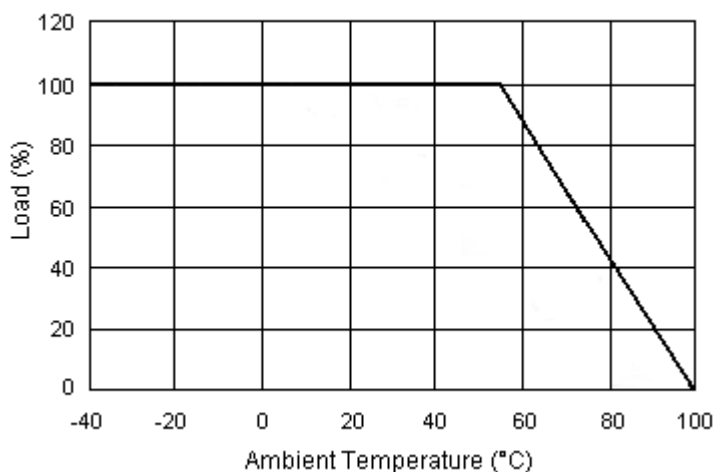
NOTES

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.

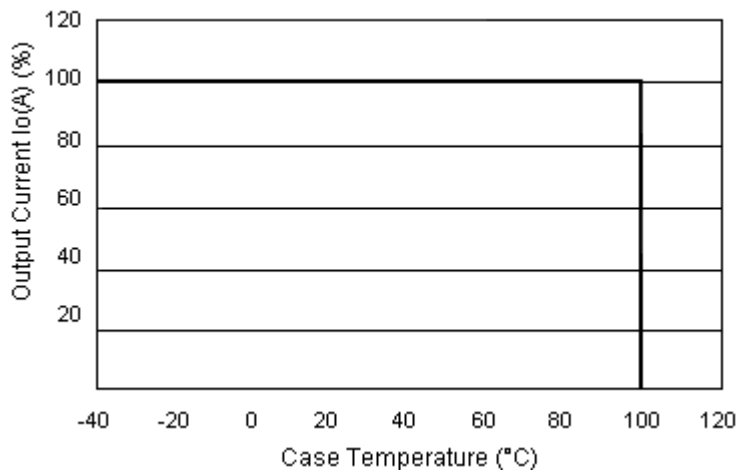
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DERATING CURVES

EJR24S5-2000 & EJ48S5-2000 DERATING CURVE



EJR24S5-2000 & EJ48S5-2000 DERATING CURVE





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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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