

## FEATURES

- UL/CUL 1950<sup>(6)</sup>
- Regulated Output
- > 1500VDC I/O Isolation
- Over Voltage Protection
- Single and Dual Outputs
- Output Power up to 12 Watts
- Continuous Short Circuit Protection
- 4:1 Ultra Wide Input Range, High Efficiency
- Six Sided Shielded, Low Profile 0.4" Height
- No External Input or Output Filtering Required
- Ideal for Telecom and Networking Applications
- Industry Compatible Pin Out, 2" x 1" Form Factor

## TYPICAL APPLICATIONS

- Low Profile & Height PCB
- On-Board Distributed Power
- 9V-36V or 18V-75VDC Telecom Input



Dimensions: 2" x 1" x 0.4"

## SPECIFICATIONS: RJW Series

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.  
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT (V<sub>in</sub>)</b>					
Input Voltage Range	24VDC nominal input voltage models	9	24	36	VDC
	48VDC nominal input voltage models	18	48	75	VDC
Input Filter		LC Filter			
Remote ON/OFF	Pin 6 (optional see notes 2 and 3)	TTL Logic			
<b>OUTPUT (V<sub>o</sub>)</b>					
Output Voltage Range		See Table			
Output Voltage Accuracy			±1.0		% of V <sub>o</sub>
Load Regulation	10% - 100% load		±0.5		%
Line Regulation	High Line / Low Line		±0.5		%
Output Power				12	W
Output Current Range		See Table			
Ripple & Noise (20MHz)			< 75		mV <sub>pk-pk</sub>
Transient Response	Within ±1% V <sub>out</sub>		< 500		µs
<b>REMOTE ON/OFF (POSITIVE REFERENCED)</b>					
Supply On		2.5VDC to 5.5VDC or Open Circuit			
Supply Off		-0.7		0.8	VDC
Standby Input Current				10	mA
Control Common		Referenced to Negative Input			
<b>REMOTE ON/OFF (NEGATIVE REFERENCED)</b>					
Supply On		-0.7		1.2	VDC
Supply Off		3.5VDC to 10VDC or open circuit			
Source Current Remote Pin				1	mA
Control Common		Referenced to Negative Input			
<b>PROTECTION</b>					
Over Current Protection		Limiting (% of I <sub>out</sub> )			
Short Circuit Protection		Continuous			
<b>GENERAL</b>					
Efficiency		See Table			
Switching Frequency			400		KHz
Isolation Voltage (input to output)	>100MΩ Resistance (60 seconds)		> 1500		VDC
<b>ENVIRONMENTAL</b>					
Operating Temperature (Ambient)	No derating	-40		+71	°C
Storage Temperature		-40		+125	°C
Case Temperature				100	°C
<b>PHYSICAL</b>					
Weight		Approximately 1 oz			
Dimensions	Case without pin	2(L) x 1(W) x 0.4(H) inches			
Case Material		Metal Case			

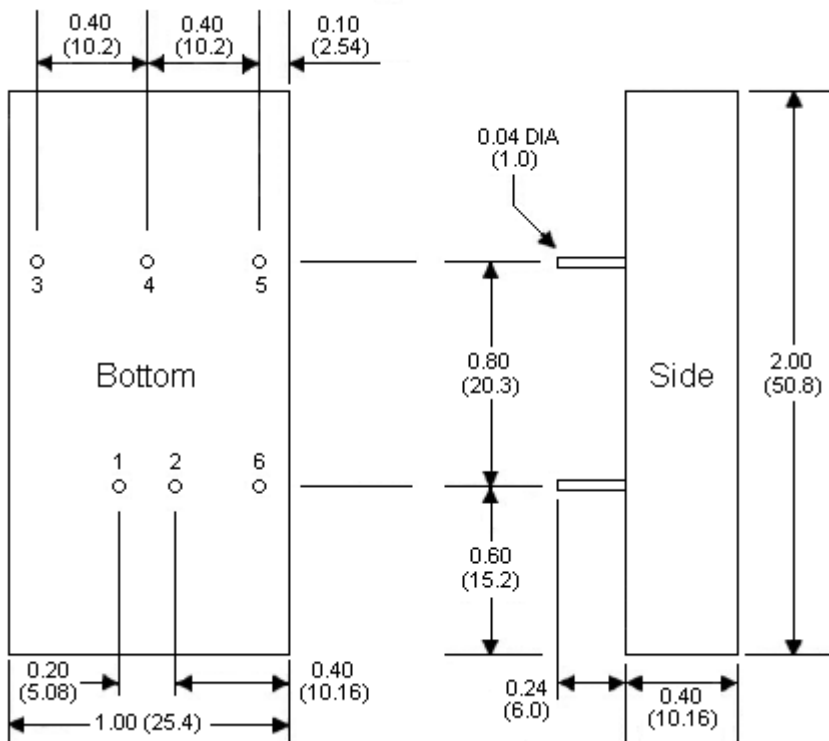
## OUTPUT VOLTAGE / CURRENT RATING CHART

Model Number	Input Voltage	Output Voltage	Output Current	Efficiency
RJW24S33-2400	24VDC (9 – 36 VDC)	3.3 VDC	2400mA	78%
RJW24S5-2000		5 VDC	2000mA	82%
RJW24S12-1000		12 VDC	1000mA	84%
RJW24S15-800		15 VDC	800mA	84%
RJW24D5-1000		±5 VDC	1000mA	82%
RJW24D12-500		±12 VDC	500mA	84%
RJW24D15-400		±15 VDC	400mA	84%
RJW48S33-2400	48 VDC (18 – 75 VDC)	3.3 VDC	2400mA	78%
RJW48S5-2000		5 VDC	2000mA	82%
RJW48S12-1000		12 VDC	1000mA	84%
RJW48S15-800		15 VDC	800mA	84%
RJW48D5-1000		±5 VDC	1000mA	82%
RJW48D12-500		±12 VDC	500mA	84%
RJW48D15-400		±15 VDC	400mA	84%

## NOTES

- For negative logic remote on/off, add the suffix "R" to the part number (Ex: RJW48S12-1000R).
- To add remote option and pin add the suffix "RC" to the part number (Ex: RJW48S12-1000RC).
- Remote On/Off models do not have UL1950 approval.
- All case and pin-to-case dimensions are for reference only, unless otherwise noted.
- All DC/DC converters should be externally fused at the front end for protection. Significant capacitive load at the output of the converter may inhibit the start-up and operation.
- This product is Listed to applicable standards and requirements by UL.  
*\*Due to advances in technology, specifications subject to change without notice.*

## MECHANICAL DRAWING



## NOTES

- All dimensions in inches (mm)
- Tolerance = ±0.01 (±0.25)

PIN CONNECTIONS		
Pin	Single Output	Dual Output
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout
6	Remote On/Off	Remote On/Off

Remote On/Off is optional (see Notes 1, 2 & 3)



Wall Industries, Inc.

Rev A

RJW Series  
Single and Dual Output  
4:1 Input Voltage Range  
12 Watt DC/DC Converter

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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.

Contact **Wall Industries** for further information:

Phone: ☎ (603)778-2300  
Toll Free: ☎ (888)597-9255  
Fax: ☎ (603)778-9797  
E-mail: [sales@wallindustries.com](mailto:sales@wallindustries.com)  
Web: [www.wallindustries.com](http://www.wallindustries.com)  
Address: 37 Industrial Drive  
Exeter, NH 03833

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