



Wall Industries, Inc.

Rev B

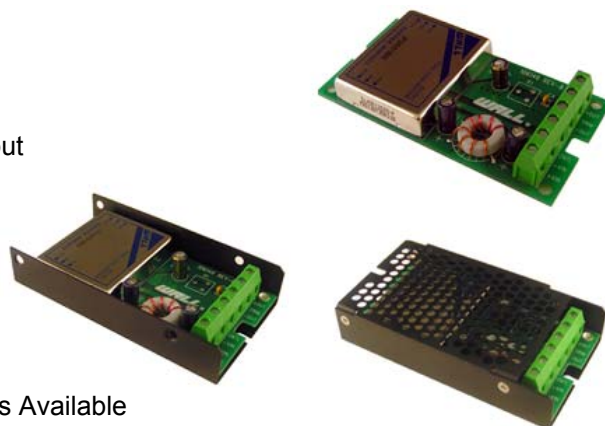
CMRJW Series
12 Watt Single Output
4:1 Input Voltage Range
Chassis Mount DC/DC Converter

FEATURES

- UL/CUL 1950
- Regulated Output
- Over Voltage Protection
- > 1500VDC I/O Isolation
- Output Power up to 12 Watts
- Continuous Short Circuit Protection
- 4:1 Ultra Wide Input Range, High Efficiency
- **Call Factory for More Output Power Options**
- Ideal for Telecom and Networking Applications
- Chassis Mount Options: Open Frame, U Channel, and Enclosed Types Available

TYPICAL APPLICATIONS

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



SPECIFICATIONS: CMRJW 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
INPUT (V _{in})					
Input Voltage Range	24V nominal input models	9	24	36	VDC
	48V nominal input models	18	48	75	VDC
Remote ON/OFF	Pin 6 (optional see notes 1, 2 and 3)	TTL Logic			
OUTPUT (V _o)					
Output Voltage Range		See Table			
Output Voltage Accuracy			±1.0		% of V _o
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 _{pk-pk}
Transient Response	Within ±1% Vout		< 500		µs
REMOTE ON/OFF (POSITIVE REFERENCED)					
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			
REMOTE ON/OFF (NEGATIVE REFERENCED)					
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			
PROTECTION					
Over Current Protection		Limiting (% of Iout)			
Short Circuit Protection		Continuous			
GENERAL					
Efficiency		See Table			
Switching Frequency			400		KHz
Isolation Voltage (input to output)	>100MΩ Resistance (60 seconds)		> 1500		VDC
ENVIRONMENTAL					
Operating Temperature (Ambient)	No derating	-40		+71	°C
Storage Temperature		-40		+125	°C
Case Temperature				100	°C
PHYSICAL					
Weight		Approximately 6oz.			
Dimensions		4(L) x 2.2(W) x 0.81(H) inches			



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OUTPUT VOLTAGE / CURRENT RATING CHART

Model Number	Input Voltage	Output Voltage	Output Current	Efficiency
CMRJW24S33-2400	24VDC (9 – 36 VDC)	3.3 VDC	2400mA	78%
CMRJW24S5-2000		5 VDC	2000mA	82%
CMRJW24S12-1000		12 VDC	1000mA	84%
CMRJW24S15-800		15 VDC	800mA	84%
CMRJW48S33-2400	48 VDC (18 – 75 VDC)	3.3 VDC	2400mA	78%
CMRJW48S5-2000		5 VDC	2000mA	82%
CMRJW48S12-1000		12 VDC	1000mA	84%
CMRJW48S15-800		15 VDC	800mA	84%

NOTES

1. For negative logic remote on/off, add the suffix "R" to the part number (Ex: CMRJW48S12-1000R).
2. To add remote option and pin add the suffix "RC" to the part number (Ex: CMRJW48S12-1000RC).
3. Remote On/Off models do not have UL1950 approval.
4. Chassis Mount Options: No suffix for open frame, "U" suffix for U Channel, and "E" suffix for Enclosed type.

MECHANICAL DRAWING

Unit: inches [mm]

