

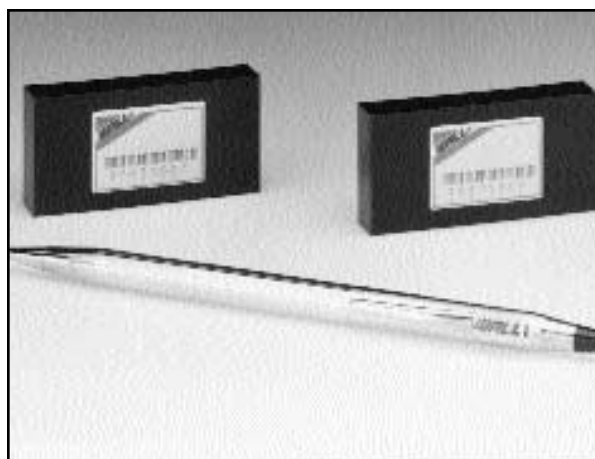
TO 10 WATTS- JR SERIES

Low Ripple, Regulated, Single and Dual Output

FEATURES

- Output Power Up to 10 Watts, No Derating
- 13.2 Watts per Cubic Inch
- Industry Standard Pin-Out
- Continuous Short Circuit Protection
- Pi-Input Filter for Low Reflected Ripple Current
- Thermal Shutdown / Current limiting
- No Derating to +71°C Ambient/85°C Amb. Ind. Grade
- UL1950, cUL950, EN60950 and CE MARK.

The JR Series of DC/DC converters features units of up to 10 watts in a 1.0 x 2.0 x 0.40" package. The units are PC mountable and include filters for low reflected ripple, continuous short circuit protection, thermal shutdown, up to 1600VDC input/output isolation.



For further information or Application Support:

www.wallindustries.com

or call

1-888-597-WALL

SPECIFICATIONS: JR SERIES

All specifications apply @ +25 C ambient unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range.....4.5-9, 9-18, 18-36, 36-75VDC
 Nominal Input.....5, 12, 24, 48VDC
 Input Filter.....Pi-Input Filter

OUTPUT SPECIFICATIONS

Output Current.....see table
 Voltage Accuracy.....±2% max.
 Voltage Balance(dual output w/ balanced load)±1% max.
 Line Regulation (Single Output)±1%
 Line Regulation (Dual Output).....±1%
 Load Regulation - Single Output (0-100% load)....±1%
 Load Regulation - Dual Output (25-100% load)....±2%
 Short Circuit Protection.....continuous, auto-recovery
 Ripple/Noise (20MHz BW).....50mV p-p
 Over Voltage Protection.....see table
 Transient Response (50% load step).....100usec

GENERAL SPECIFICATIONS

Efficiency.....up to 86%
 Isolation Voltage (input to output).....1600VDC min.
 Isolation Voltage (5VDC in, I/O).....500VDC
 Isolation Resistance.....10⁹Ohms
 Switching Frequency.....300kHz typical

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-25 to +71°C (ambient)
 Industrial Grade.....-40 to +85°C (ambient)
 Storage Temperature.....-55 to +125°C
 Humidity (non-condensing).....20- 95% R.H.
 MTBF.....MIL217F, 25°C F.L. 5.3423 x10⁵ Hours

PHYSICAL SPECIFICATIONS

Weight.....1.7 oz.
 Case Material.....Nickel coated copper,
non-conductive baseplate
 Shielding connections.....Six-sided

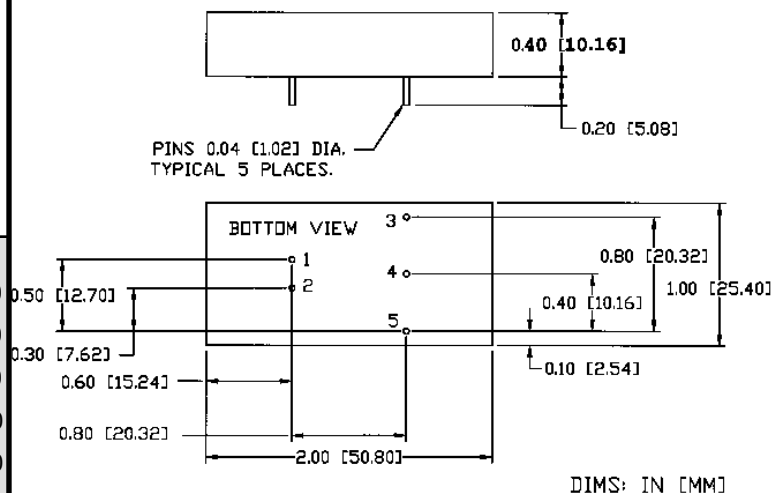
Due to advances in technology, specifications subject to change without notice.

Input Voltage Number (VDC)	Output Voltage (VDC)	Output Current (mA)	OVP Set (VDC)	Model Point
4.5 - 9	5	2000	6.8	JR5S5-2000
	12	830	15	JR5S12-830
	15	660	18	JR5S15-660
	± 5	1000	6.2	JR5D5-1000
	± 12	420	15	JR5D12-420
	± 15	330	18	JR5D15-330
9-18	3.3	2000	3.9	JR12S33-2000
	5	2000	6.8	JR12S5-2000
	12	830	15	JR12S12-830
	15	660	18	JR12S15-660
	± 5	1000	6.2	JR12D5-1000
	± 12	420	15	JR12D12-420
	± 15	330	18	JR12D15-330
18-36	3.3	2000	3.9	JR24S33-2000
	5	2000	6.8	JR24S5-2000
	12	830	15	JR24S12-830
	15	660	18	JR24S15-660
	± 5	1000	6.2	JR24D5-1000
	± 12	420	15	JR24D12-420
36-75	3.3	2000	3.9	JR48S33-2000
	5	2000	6.8	JR48S5-2000
	12	830	15	JR48S12-830
	15	660	18	JR48S15-660
	± 5	1000	6.2	JR48D5-1000
	± 12	420	15	JR48D12-420
	± 15	330	18	JR48D15-330

Note: For Industrial Grade -40°C to +85°C (Ambient), add "I" suffix to part number.

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.

JR SERIES



PIN CONNECTIONS

	Single	Dual
1	+ Vin	+ Vin
2	- Vin	- Vin
3	+ Vout	+ Vout
4	No pin	Common
5	- Vout	- Vout

Notes:

1. All case and pin-to-case dimensions reference only unless otherwise noted.
2. Pin 4 absent on singles.
3. All DC/DC converters should be externally fused for protection.
4. PC pins - 0.04" diameter x 0.20" long (min.); typical five places.
5. Pin to pin tolerance: ±0.01", pin diameter tolerance: ±0.005".