

To 15 WATTS - LT SERIES

2:1 or 4:1 Wide Input, Triple Outputs

FEATURES

- ◆ Output Power Up to 15 Watts
- ◆ Wide Input Voltage Range (2:1 or 4:1)
- ◆ Industry Standard Pin-Out
- ◆ Indefinite Short Circuit Protection
- ◆ Input Filter for Low Reflected Ripple
- ◆ Assorted Triple Output Combinations
- ◆ Up to +85°C Case Operating Temperature
- ◆ Five Year Warranty



THE LT SERIES FROM WALL INDUSTRIES

The LT Series of DC/DC converters features units of 15 watts in a 2.0" x 2.0" x 0.40" package. The units are PC mountable and include an input filter for low reflected ripple, continuous short circuit protection, thermal shutdown, 500VDC input/output isolation and typical efficiencies of 80%.

SPECIFICATIONS: LT SERIES

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

INPUT SPECIFICATIONS

| | |
|---------------------------|------------------------------------|
| Input Voltage Range | 9-18, 18-36, 36-72, 9-36, 20-72VDC |
| Nominal Input | 12,24,48VDC |
| Input Filter | Pi filter |

OUTPUT SPECIFICATIONS

| | |
|--|-----------------------|
| Output Current | see table |
| Voltage Accuracy (+V1 & -V2) | ± 2% max. |
| (+V3) | ± 3% max. |
| Line Regulation (at full load) | ± 1.0% max. |
| Load Regulation (50-100% load) | ± 2.0% max. |
| Short Circuit Protection | Indefinite |
| Ripple/Noise (20MHz BW) | 1% P-P max. |
| Transient Response (50% load drop) | 200µsec to |
| | within 1% final value |
| Temperature Coefficient@ FL | ± 0.02%/°C max. |

GENERAL SPECIFICATIONS

| | |
|---|------------------|
| Efficiency | 81% (typical) |
| Isolation Voltage (input to output)..... | 500VDC min. |
| Isolation Resistance (input to output)..... | 1000MΩ |
| Switching Frequency..... | 100kHz (typical) |

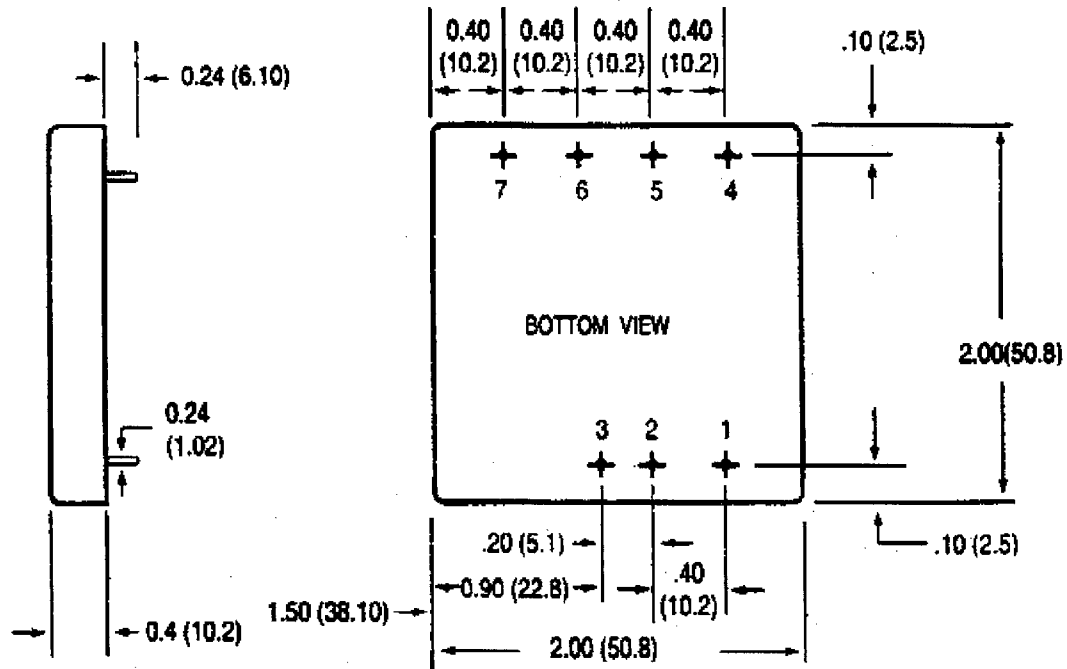
ENVIRONMENTAL SPECIFICATIONS

| | |
|---------------------------------|------------------------|
| Operating Temperature | -25 to +71°C (ambient) |
| Derating | Not required |
| Storage Temperature | -55 to +125°C |
| Humidity (non-condensing) | 20 - 95% R.H. |

PHYSICAL SPECIFICATIONS

| | |
|---------------------|--------------------------|
| Weight | 2.8 oz. |
| Case Material | Black coated copper, |
| | non-conductive baseplate |
| Shielding | Six-sided |

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



| Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) | Model Number |
|---------------------|----------------------|---------------------|--------------|
| 9-18 | 5/± 12 | 1500/± 310 | LT1212-15E |
| | 5/± 15 | 1500/± 250 | LT1215-15E |
| | +5/+12/-5 | 1500/310/500 | LT12512-15E |
| 18-36 | 5/± 12 | 1500/± 310 | LT2412-15E |
| | 5/± 15 | 1500/± 250 | LT2415-15E |
| | +5/+12/-5 | 1500/310/500 | LT24512-15E |
| 36-72 | 5/± 12 | 1500/± 310 | LT4812-15E |
| | 5/± 15 | 1500/± 250 | LT4815-15E |
| | +5/+12/-5 | 1500/310/500 | LT48512-15E |
| 9-36 | 5/± 12 | 1500/± 310 | LTW2412-15E |
| | 5/± 15 | 1500/± 250 | LTW2415-15E |
| | +5/+12/-5 | 1500/310/500 | LTW24512-15E |
| 20-72 | 5/± 12 | 1500/± 310 | LTW4812-15E |
| | 5/± 15 | 1500/± 250 | LTW4815-15E |
| | +5/+12/-5 | 1500/310/500 | LTW48512-15E |

Add 'R' on to end of part number for remote on/off feature.

| PIN CONNECTIONS LT SERIES | |
|---------------------------|---------------|
| 1 | Remote On/Off |
| 2 | - Vin |
| 3 | + Vin |
| 4 | - Vout |
| 5 | Common |
| 6 | + 5Vout |
| 7 | + Vout |

Notes:

- All case and pin to case dimensions reference only unless otherwise noted.
- P.C. pins - 0.04" dia. x 0.20" long (min).
- Pin to pin tolerance ± 0.01". Pin diameter tolerance ± 0.005"
- 10% minimum load required.
- Remote pin can be left floating if not used.
- Significant capacitive load on output may inhibit start-up and operation, consult factory.
- All DC/DC converters should be externally fused on the front end for protection.