DS_BXB75S_20000101.PDF

50 to 75 Watt Wide input DC/DC converters

| OUTPUT POWER (MAX.) | INPUT VOLTAGE | OVP | OUTPUT VOLTAGE | OUTPUT CURRENT (MIN.) | OUTPUT CURRENT (MAX.) | EFFICIENCY (TYP.) | REGULATION | | MODEL |
|---------------------------|------------------|---------|-------------------|-----------------------------|-----------------------------|----------------------|------------|-------|-----------------------|
| | | | | | | | LINE | LOAD | NUMBER ⁽⁷⁾ |
| 50W | 18-36VDC | 4.3VDC | 3.3V | 0A | 15A | 78% | ±0.05% | ±0.1% | BXB75-24S3V3FLT |
| 75W | 18-36VDC | 6.5VDC | 5V | 0A | 15A | 82% | ±0.05% | ±0.1% | BXB75-24S05FLT |
| 75W | 18-36VDC | 14.5VDC | 12V | 0A | 6.25A | 83% | ±0.05% | ±0.1% | BXB75-24S12FLT |
| 75W | 18-36VDC | 17.5VDC | 15V | 0A | 5.0A | 84% | ±0.05% | ±0.1% | BXB75-24S15FLT |
| 50W | 36-75VDC | 4.3VDC | 3.3V | 0A | 15A | 79% | ±0.05% | ±0.1% | BXB75-48S3V3FLT |
| 75W | 36-75VDC | 6.5VDC | 5V | 0A | 15A | 83% | ±0.05% | ±0.1% | BXB75-48S05FLT |
| 75W | 36-75VDC | 14.5VDC | 12V | 0A | 6.25A | 84% | ±0.05% | ±0.1% | BXB75-48S12FLT |
| 75W | 36-75VDC | 17.5VDC | 15V | 0A | 5.0A | 85% | ±0.05% | ±0.1% | BXB75-48S15FLT |

Notes

- Measured with $10\mu F$ tantalum capacitor and $1\mu F$ ceramic capacitor across
- di/dt = $0.1A/1\mu$ s, Vin = 48VDC, Tc = $25^{\circ}C$, load change = 0.5 lo max. to 0.75 lo max. and 0.75 lo max. to 0.5 lo max.
- Units should be characterised within systems. External components required.
- Input fusing is recommended based on surge current and maximum input current.
- 5 This product is only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.
- Simulated source impedance of 12µH. 12µH inductor in series with +Vin.
- Active high remote on/off option is available (standard product is active low), designate with the suffix 'FHT' e.g. BXB75-48S05FHT. Consult factory for further details and options.
- Start-up into resistive load.

| PROTECTION | |
|--------------------------|--|
| Short circuit protection | Continuous, automatic recovery |
| Overvoltage protection | Non-latching |
| Undervoltage protection | Non-latching |
| Thermal protection | 110°C baseplate, automatic recovery |

| TELECOM SPECIFICATIONS | |
|----------------------------|--------------|
| Central office interface A | ETS300-132-2 |

International Safety Standard Approvals



VDE0805/EN60950/IEC950 File No. 10401-3336-1095

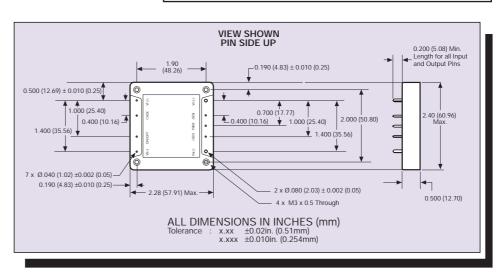


UL1950 File No. E136005

CSA C22.2 No. 950 File No. LR41062C

| EXTERNAL OUTPUT TRIMMING | |
|---|--|
| Output can be externally trimmed by using the method shown below. | |
| TRIM UP RT1 OR RT2 DOWN 6 | |

| PIN CONNECTIONS | | | | |
|-----------------|---------------|--|--|--|
| PIN NUMBER | FUNCTION | | | |
| 1 | + Vin | | | |
| 2 | Remote ON/OFF | | | |
| 3 | Case | | | |
| 4 | - Vin | | | |
| 5 | - Vout | | | |
| 6 | - Sense | | | |
| 7 | Trim | | | |
| 8 | + Sense | | | |
| 9 | + Vout | | | |



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