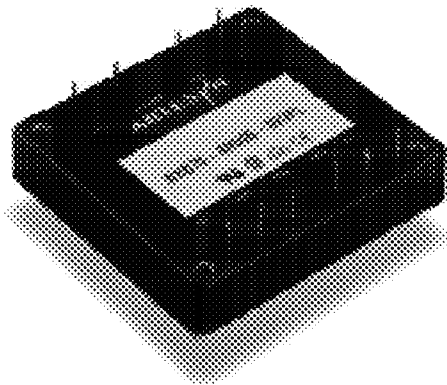
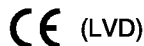




[2 YEAR WARRANTY]



BXB75 DUAL SERIES

Dual output

- 5V/3.3V flexible dual output unit
- No minimum load required
- 15A maximum per channel
- Industry standard footprint
- MTBF >2 million hours (Bellcore 332)
- High efficiency of 82%
- Input voltage to ETS300-132-2
- Adjustable output voltage
- 2:1 input range
- Undervoltage lockout (UVLO)
- UL, VDE and CSA safety approvals

The BXB75 Dual is a high power density DC/DC converter packaged in the industry standard footprint (2.40 x 2.28 x 0.50 inches). With no minimum load requirements, either output can supply its maximum current, or both channels can support any combination of loading to a total of 75W of output power. Suitable for a wide range of applications in nearly any industry, the BXB75 Dual was designed with communication and distributed power applications in mind. Aluminum baseplate technology with four threaded inserts makes heatsink attachment and optimum thermal management easy. The BXB75 Dual series is approved to IEC950 by UL, CSA and VDE.

SPECIFICATION

All specifications are typical at nominal input, full load at 25°C unless otherwise stated

OUTPUT SPECIFICATIONS		
Voltage adjustability	Each output	±5.0%
Set point accuracy		±2.0%
Line regulation		±0.25%
Load regulation		±0.50%
Minimum load		0A
Overshoot		0%
Undershoot		None
Ripple and noise 5Hz to 20MHz	Each output	100mV pk-pk, 40mV rms max.
Temperature coefficient		±0.01%/°C
Transient response	See Note 2	±2.0% max. deviation 300µs recovery to within ±1.0%
Remote sense		None
INPUT SPECIFICATIONS		
Input voltage range	48Vin nominal	36 to 75VDC
Input current	No load Remote OFF	150mA max. 25mA max.
Input current (max.)	48V model See Note 4	3.5A max. @Io max. and Vin = 0 to 75V
Input reflected ripple	See Note 6	20mA pk-pk
Active low remote ON/OFF Logic compatibility ON OFF	See Note 7 Ref. to -input CMOS/TTL 1.2VDC max. 3.5VDC min. or open circuit	
Undervoltage lockout		30V typ.
Start-up time See Note 8	Power up Remote ON/OFF	10ms, max. 2.5ms max.

EMC CHARACTERISTICS		
Conducted emissions See Note 3	Bellcore 1089, FCC part 15 EN55022, CISPR22	Level A Level A
GENERAL SPECIFICATIONS		
Efficiency		See table
Isolation voltage See Note 11	Input/case Input/output Output/case	1000VDC 1500VDC 1500VDC
Switching frequency	Fixed	400kHz
Approvals and standards	VDE0805, EN60950, IEC950 UL1950, CSA C22.2 No. 950	
Case material	Aluminum baseplate with plastic case	
Material flammability	UL94V-0	
Weight	127g (4.5 oz)	
MTBF	Bellcore 332 (calculated)	>2,000,000 hours
ENVIRONMENTAL SPECIFICATIONS		
Thermal performance	Operating case temp. Non-operating	-40°C to +100°C -50°C to +110°C
Altitude	Operating Non-operating	10,000 feet max. 40,000 feet max.
Vibration	5Hz to 500Hz	2.4G rms (approx.)

International Safety Standard Approvals



VDE0805/EN60950/IEC950 File No. 10401-3336-1095
Licence No. 6249



UL1950 File No. E136005



CSA C22.2 No. 950 File No. LR41062C

75 Watt Wide input DC/DC converters

OUTPUT POWER (MAX.)	INPUT VOLTAGE	OVP	OUTPUT VOLTAGE	OUTPUT CURRENT (MIN.)	OUTPUT CURRENT (MAX.)	TYPICAL EFFICIENCY (%)	REGULATION LINE	LOAD	MODEL NUMBER (7)
75W	36-75VDC	6.0/4.0VDC	5V/3.3V	0A	15A	82%	±0.25%	±0.50%	BXB75-48D05-3V3FL

Notes

- 1 Measured with 10 μ F tantalum capacitor and 0.1 μ F ceramic capacitor across output.
- 2 di/dt = 1A/1 μ s, Vin = 48VDC, Tc = 25°C, load change = 0.5 Io max. to 0.75 Io max. and 0.75 Io max. to 0.5 Io max.
- 3 Units should be characterised within systems. External components required.
- 4 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.
- 6 Simulated source impedance of 12 μ H.
- 7 Option with active high remote on/off (standard product is active low) is available. Designate with the suffix 'FH', e.g. **BXB75-48D05-3V3FH**.
- 8 Start-up in resistive load.
- 9 5V at 15A.
- 10 Numbers in brackets refer to +5V trim.
- 11 Connect input to case when performing hipot test from output to case.

PROTECTION

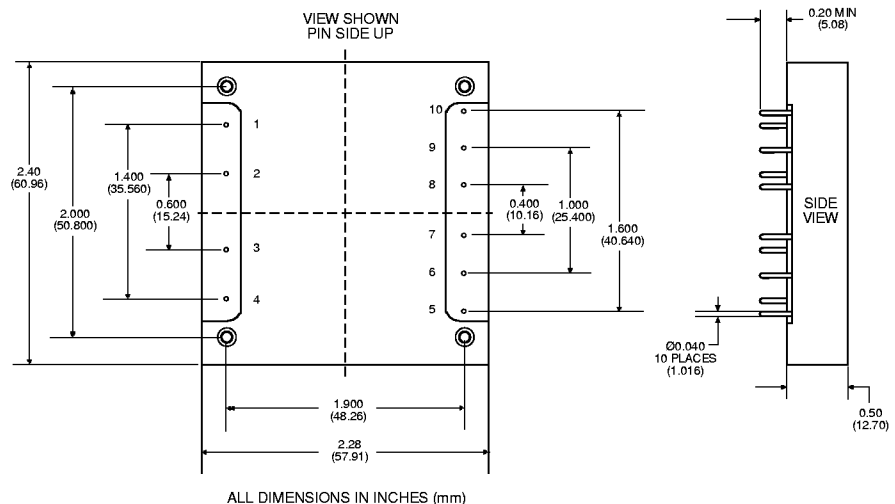
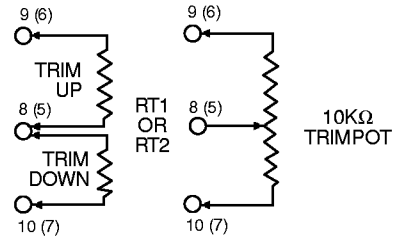
Short circuit protection	Continuous, 32A max. auto restart
Input surge protection	100VDC for one second max. non repetitive
Reverse voltage protection See Note 4	Yes, up to 17A with source impedance of 5 ohms
Overvoltage protection	Latching, 120% Vout
Undervoltage protection	Non-latching
Thermal protection	110°C baseplate, automatic recovery

TELECOM SPECIFICATIONS

Central office interface A	ETS300-132-2
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PIN CONNECTIONS	
PIN NUMBER	FUNCTION
1	- Vin
2	Case
3	Remote ON/OFF
4	+ Vin
5	+5V Trim
6	+5V Return
7	+5V
8	+3.3V Trim
9	+3.3V Return
10	+3.3V

Output can be externally trimmed by using either method shown below.



TOLERANCE : x.xx ±0.02in (0.51mm)
x.xxx ±0.01in (0.254mm)