



Dual output



- 15A maximum per channel
- Industry standard footprint
- MTBF >2 million hours (Bellcore 332)
- 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 60/75W 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.



[2 YEAR WARRANTY]











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	(See Note 14)) 1A		
Overshoot		0%		
Undershoot		None		
Ripple and noise 5Hz to 20MHz	Each output (See Note 1)	100mV pk-pk, 40mV rms max.		
Temperature coefficien	t	±0.01%/°C		
Transient response (See Note 2)		±2.0% max. deviation 300µs recovery to within ±1.0%		
Remote sense		None		
INPUT SPECIFICATIO	NS			
Input voltage range	48Vin nomina	36 to 75VDC		
Input current	No load Remote OFF	150mA max. 25mA max.		
Input current (max.) (See Note 4)	3.3V/2.5V	2.5A max. @ lo max. and Vin = 0 to 75V		
	5V/3.3V	3.5A max. @ lo max. and Vin = 0 to 75V		
Input reflected ripple	(See Note 6)	20mA pk-pk		
Active low remote ON/ Logic compatibility ON OFF		(See Note 7) Ref. to -input CMOS/TTL 1.2VDC max. 5VDC min. or open circuit		
Undervoltage lockout		30V typ.		

EMC CHARACTERISTICS				
Conducted emissions (See Note 3)	Bellcore 1089, FCC part 15 EN55022, CISPR22	Level A Level A		
GENERAL SPECIFICA	TIONS			
Efficiency		See table		
Isolation voltage (See Note 13)	Input/case Input/output Output/case	1000VDC 1500VDC 1500VDC		
Switching frequency	Fixed	400kHz		
Approvals and standards	VDE0805, EN609 UL1950, CSA C22	50, IEC950 2.2 No. 950		
Case material		n baseplate blastic case		
Material flammability		UL94V-0		
Weight	12	27g (4.5 oz)		
MTBF	Bellcore 332 >2,000 (calculated)),000 hours		
ENVIRONMENTAL SPECIFICATIONS				
Thermal performance	Operating case temp40°C Non-operating -50°C	to +100°C to +110°C		
Altitude		0 feet max. 0 feet max.		
Vibration	5Hz to 500Hz 2.4G rm	ns (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

60 to 75 Watt Wide input DC/DC converters

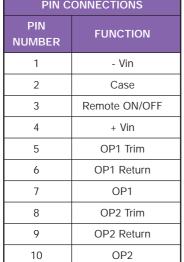
OUTPUT POWER	INPUT	OVP	OUT VOL	PUT TAGE	OUTPUT CURRENT	OUTPUT CURRENT	TYPICAL		_ATION	MODEL
(MAX.)	VOLTAGE		OP1	OP2	(MIN.) ⁽¹⁴⁾	(MAX.) ⁽¹²⁾	EFFICIENCY	LINE	LOAD	NUMBER ⁽⁷⁾
60W	36-75VDC	4.0/3.0VDC	3.3V	2.5V	1A	15A	74% (10)	±0.25%	±0.50%	BXB75-48D3V3-2V5FL
75W	36-75VDC	6.0/4.0VDC	5V	3.3V	1A	15A	82% ⁽⁹⁾	±0.25%	±0.50%	BXB75-48D05-3V3FL

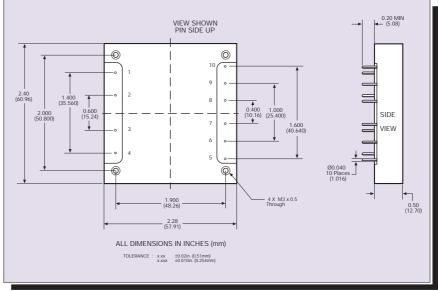
Notes

- 1 Measured with 10µF tantalum capacitor and 0.1µF ceramic capacitor across output.
- 2 di/dt = 1A/1µs, Vin = 48VDC, Tc = 25°C, load change = 0.5 lo max. to 0.75 lo max. and 0.75 lo max. to 0.5 lo max.
- 3 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.
- 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. BXB75-48D3V3-2V5FH is not available.
- 8 Start-up in resistive load.
- 9 5V at 15A.
- 10 Measured with 15A load on 3.3V output and 5A load on 2.5V output.
- 11 Numbers in brackets refer to output 1.
- 12 Combined maximum output current that may be drawn from both channels simultaneously is 20A (i.e. current from OP1 + current from OP2).
- 13 Connect input to case when performing hipot test from output to case.
- 14 1A minimum load required on the higher voltage output.

PROTECTION				
Short circuit protection	5V/3.3V	Continuous, 25A max. auto restart		
	3.3V/2.5V	Continuous, 32A max. auto restart		
Input surge 100VDC for one second mon repetition				
Reverse voltage protecti (See Note 4)	ion	Yes, up to 17A with source impedance of 5 ohms		
Overvoltage protection		Latching, 120% Vout		
Undervoltage protection	l	Non-latching		
Thermal protection	baseplate, automatic recovery			
TELECOM SPECIFICAT	TIONS			
Central office interface A	ETS300-132-2			

EXTERNAL OUTPUT TRIMMING (11) Output can be externally trimmed by using the method shown below. **PIN CONNECTIONS** PIN **FUNCTION** UP 1 - Vin TRIM DOWN 2 Case 0 10 (7) 3 Remote ON/OFF





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