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BXB75 Series

Dual output

DC/DC CONVERTERS

60-75W Wide Input DC/DC Converters

Flexible dual output unit

- 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

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

SPECIFICATIONS

OUTPUT SPECIFICATION	9
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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
Undershoot		None
Ripple and noise 5Hz to 20MHz	Each output (See Note 1)	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 vol	tage range	48Vin nominal	36 to 75VDC
Input cur	rent	No load Remote OFF	150mA max. 25mA max.
Input cur (See Not	rent (max.) e 4)	3.3V/2.5V 5V/3.3V	2.5A max. @ lo max. and
Input refl	ected ripple	(See Note 6)	20mA pk-pk
	w remote ON/OF mpatibility		(See Note 7) Ref. to -input CMOS/TTL 1.2VDC max. 5VDC min. or open circuit
Undervo	tage lockout		30V typ.
Start-up (See Not	time e 8)	Power up Remote ON/O	10ms max. FF 2.5ms max.

EMC CHARACTERISTICS

Conducted emissions	Bellcore 1089, FCC part 15	Level A
(See Note 3)	EN55022, CISPR22	Level A

GENERAL SPECIFICATIONS

Efficiency	_	See table
Isolation voltage (See Note 13)	Input/case Input/output Output/case	1000VDC 1500VDC 1500VDC
Switching frequency	Fixed	400kHz
Approvals and standards		0805, EN60950, IEC950 950, 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	-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.)

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BXB75 Series



Dual output

DC/DC CONVERTERS 60-75W Wide

60-75W Wide Input DC/DC Converters

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For the most current data and application support visit www.artesyn.com/powergroup/products.htm

OUTPUT POWER	INPUT	OVP	OUT VOL	PUT FAGE	OUTPUT CURRENT	OUTPUT CURRENT	TYPICAL	REGUI	_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 $10\mu F$ tantalum capacitor and $0.1\mu F$ 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.
- 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 12μH.
- 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.

PIN CONNECTIONS				
PIN NUMBER	FUNCTION			
1	- Vin			
2	Case			
3	Remote ON/OFF			
4	+ Vin			
5	OP1 Trim			
6	OP1 Return			
7	OP1			
8	OP2 Trim			
9	OP2 Return			
10	OP2			

Short	circuit	protection	5V/3 3	١٧

PROTECTION

Short circuit protection	5V/3.3V 3.3V/2.5V	Continuous, 25A max. auto restart Continuous, 32A max. auto restart
Input surge protection		100VDC for one second max. non repetitive
Reverse voltage protecti (See Note 4)	on	Yes, up to 17A with source impedance of 5Ω
Overvoltage protection		Latching, 120% Vout
Undervoltage protection		Non-latching

TELECOM SPECIFICATION

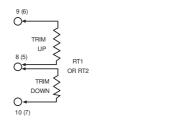
Central office interface A

Thermal protection

ETS300-132-2

EXTERNAL OUTPUT TRIMMING (11)

Output can be externally trimmed by using the method shown.



110°C baseplate, automatic recovery

BXB75 Series

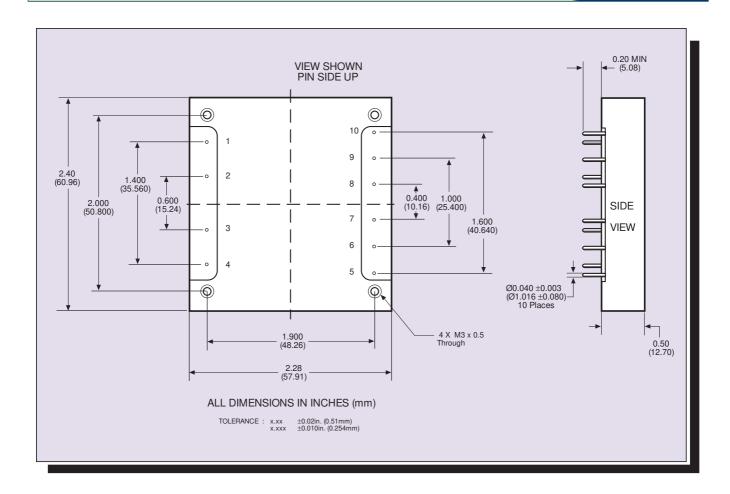


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International Safety Standard Approvals



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



c Til us UL1950 File No. E136005



CSA C22.2 No. 950 File No. LR41062C

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