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BXB75 Series Single output

Total Power: 50 - 75W Input Voltage: 36 - 75VDC # of Outputs: Single



Special Features

- Industry standard footprint MTBF >1.4 million hours (Bellcore 332)
- Input voltage to ETS300-132-2
- Adjustable output voltage
- No minimum load required
- Separate case ground pin
- 2:1 input range for battery powered applications
- Undervoltage lockout (UVLO)
- UL, VDE and CSA safety approvals
- Available RoHS compliant
- 2 year warranty

The BXB75 Series are high power density dc-dc converters packaged in the industry standard footprint (2.40 x 2.28 x 0.50 inches) to give designers optimum choices when specifying for both new and replacement designs. Suitable for a wide range of applications in nearly any industry, the BXB75 was particularly designed with communication and distributed power applications in mind. Using Bellcore 332, the MTBF is greater than 1,400,000 hours. Aluminum baseplate technology with four threaded M3 inserts makes heatsink attachment and optimum thermal management easy. The BXB75 series is approved to IEC950 by UL, CSA and VDE.

Safety

VDE0805/EN60950/IEC950 File No. 10401-3336-0205

UL1950 File No. E136005

CSA C22.2 No. 950 File No. LR41062C





Specifications

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

OUTPUT SPECIFICATIONS			
oltage adjustability			60% to 110%
Set point accuracy			±1.0%
ine regulation	Low line to hig	h line	±0.05%
oad regulation	Full load to mir	n. load	±0.10%
Minimum load			0%
Overshoot	At turn-on and	turn-off	None
Jndershoot			None
Ripple and noise 5 Hz to 20 MHz) See Note 1)	3.3 V and 5 V 12 V		75 mV pk-pk, 20 mV rms 100 mV pk-pk, 30 mV rms
Temperature coefficient			±0.01%/°C
Transient response (See Note 2)		±2.0	% max. deviation 170 μs recovery to within ±1.0%
Remote sense			Vdc transmission op compensation
NPUT SPECIFICATIONS			
nput voltage range	48 Vin nomina	l	36-75 Vdc
nput current	No load Remote OFF		100 mA max. 20 mA max.
nput current (max.) See Note 4)		3.5	A max. @ Io max. and Vin = 0-75 V
nput reflected ripple	(See Note 6)		5 mA pk-pk
Active low remote ON/OFF .ogic compatibility ON OFF	(See Note 7)	Open colle	ector ref to -input 1.2 Vdc max. Open circuit

INPUT SPECIFICATIONS (c	ontinued)	
Undervoltage lockout	48 Vin: power up 48 Vin: power dowr	34 V 32.5 V
Start-up time (See Note 8)	Power up Remote ON/OFF	20 ms 20 ms
EMC CHARACTERISTICS		
Conducted emissions (See Note 3)	Bellcore 1089 FCC part 15 EN55022, CISPR22	Level A Level A Level A
GENERAL SPECIFICATION	IS	
Efficiency		See table
Isolation voltage	Input/case Input/output Output/case	1500 Vdc 1500 Vdc 1500 Vdc
Switching frequency	Fixed	500 kHz typ.
Approvals and standards (See Note 5)		805, EN60950, IEC950 50, CSA C22.2 No. 950
Case material		Aluminum baseplate with plastic case
Material flammability		UL94V-0
Weight		110 g (3.88 oz)
MTBF	Bellcore 332 MIL-HDBK-217F @ 40 °C, 100% full lo	1,400,000 hours min. 580,000 hours min. oad
ENVIRONMENTAL SPECII	FICATIONS	
Thermal performance	Operating case tem Non-operating	p40 °C to +100 °C -55 °C to +125 °C
Altitude	Operating Non-operating	10,000 feet max. 40,000 feet max.
Vibration	5-500 Hz	2.4 G rms (approx.)

automatic recovery

Specifications Contd.

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OUTPUT POWER	INPUT	OVP	OUTPUT	OUTPUT CURRENT	OUTPUT CURRENT	EFFICIENCY	REGULATION		MODEL
(MAX.)	VOLTAGE		VOLTAGE	(MIN.)	(MAX.)	(TYP.)	LINE	LOAD	NUMBER ^(7, 9,10)
50 W	36-75 Vdc	4.3 Vdc	3.3 V	0 A	15 A	79%	±0.05%	±0.1%	BXB75-48S3V3FLTJ
75 W	36-75 Vdc	6.5 Vdc	5 V	0 A	15 A	83%	±0.05%	±0.1%	BXB75-48S05FLTJ
75 W	36-75 Vdc	14.5 Vdc	12 V	0 A	6.25 A	84%	±0.05%	±0.1%	BXB75-48S12FLTJ

Notes

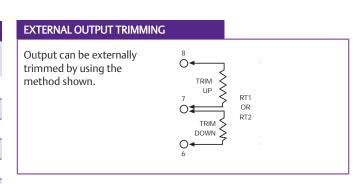
- 1 Measured with 10 μF tantalum capacitor and 1 μF ceramic capacitor across output.
- di/dt = 0.1 A/1 μ s, Vin = 48 Vdc, Tc = 25 °C, load change = 0.5 lo max. to 0.75 lo max. and 0.75 lo max. to 0.5 lo max.
- Units should be characterised within systems. External components required.
- Input fusing is recommended based on surge current and maximum input
- 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 12 μH . 12 μH 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. **BXB75-48S05FHTJ**. Consult factory for further details and options.
- Start-up into resistive load.
- The 'J' suffix indicates that these parts are Pb-free (RoHS 6/6) compliant. TSE RoHS 5/6 (non Pb-free) compliant versions may be available on special request, please contact your local sales representative for details.
- 10 NOTICE: Some models do not support all options. Please contact your local Artesyn representative or use the on-line model number search tool at http://www.artesyn.com/powergroup/products.htm to find a suitable alternative.

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

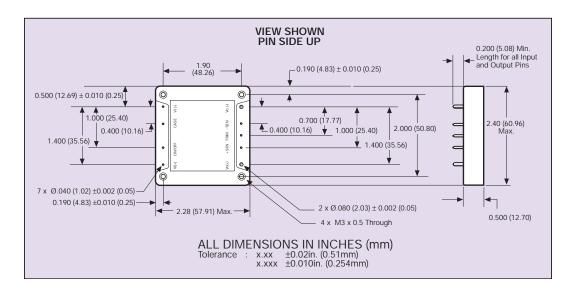
TELECOM SPECIFICATION

Central office interface A ETS300-132-2

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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