

[2 YEAR WARRANTY]

BXB75 SERIES

Single output

- Industry standard footprint
- MTBF > 1 million hours (MIL-HDBK-217F)
- High efficiency up to 88%
- 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

The BXB75 Series are high power density DC/DC converters packaged in the industry standard footprint ($2.40 \times 2.28 \times 0.50$ 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 MIL-HDBK-217F, the MTBF is greater than 1,000,000 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.

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

OUTPUT SPECIFICATION	ONS		
Voltage adjustability			60% to 110%
Set point accuracy			±1.0%
Line regulation	Low line to high	h line	±0.05%
Load regulation	Full load to mir	ı. load	±0.10%
Minimum load			0%
Overshoot	At turn-on and	turn-off	None
Undershoot			None
Ripple and noise (5Hz to 20MHz) See Note 1	3.3V and 5V		75mV pk-pk, 20mV rms
	12V and 15V		100mV pk-pk, 30mV rms
Temperature coefficient			±0.01%/°C
Transient response	See Note 2		max. deviation 170µs recovery o within ±1.0%
Remote sense			C transmission compensation
INPUT SPECIFICATION	vs		
Input voltage range	24Vin nominal 48Vin nominal		18 to 36VDC 36 to 75VDC
Input current	No load Remote OFF		100mA max. 20mA max.
Input current (max.)	48V models See Note 4		max. @ lo max. Vin = 0 to 75V
Input reflected ripple	See Note 6		5mA pk-pk
Active low remote ON/0 Logic compatibility ON OFF	OFF O _l	pen collec	See Note 7 stor ref to -input 1.2VDC max. Open circuit

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24Vin: power up 24Vin: power down 48Vin: power up 48Vin: power down	17V 16V 34V 32.5V
Power up 20m Remote ON/OFF 20m	
CS	
Bellcore 1089 FCC part 15 EN55022, CISPR22	Level A Level A Level A
IONS	
	See table
Input/case Input/output Output/case	1500VDC 1500VDC 1500VDC
Fixed	500kHz typ.
VDE0805 UL1950,	5, EN60950, IEC950 CSA C22.2 No. 950
F	Aluminum baseplate with plastic case
	UL94V-0
	110g (3.88oz)
MIL-HDBK-217F @ 40°C, 100% full I	1,000,000 hours oad min.
ECIFICATIONS	
Operating case tem Non-operating	np40°C to +100°C -55°C to +125°C
Operating case term Non-operating Operating Non-operating	np40°C to +100°C -55°C to +125°C 10,000 feet max. 40,000 feet max.
	24Vin: power down 48Vin: power up 48Vin: power up 48Vin: power down Power up Remote ON/OFF CS Bellcore 1089 FCC part 15 EN55022, CISPR22 IONS Input/case Input/case Input/output Output/case Fixed VDE0805 UL1950, MIL-HDBK-217F @ 40°C, 100% full I

50 to 75 Watt Wide input DC/DC converters

OUTPUT	indeput -	⊙XVÆ	(9(U)(EU)(E)		OUTPUT CURRENT	MERRICIENCY	RECU	LATION,	Moder
([MAXX))	Mortanes :	GAYAF	VOLTAGE	(MINE)	(MAXX)		innis	TOWD .	
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	85%	±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	82%	±0.05%	±0.1%	BXB75-48S3V3FLT
75W	3.6-75VDC	6.5VDC	5V	0A	15A	85%	±0.05%	±0.1%	BXB75-48S05FLT
75W	36-75VDC	14.5VDC	12V	0A	6.25A	87%	±0.05%	±0.1%	BXB75-48S12FLT
75W	36-75VDC	17.5VDC	15V	0A	5.0A	88%	±0.05%	±0.1%	BXB75-48S15FLT

Notes

- Measured with 10µF tantalum capacitor and 1µF ceramic capacitor across output.
- di/dt = 0.1A/1 μ s, Vin = 48VDC, Tc = 25°C, load change = 0.5 lo max. to 0.75 lo max. and 0.75 lo max. and 0.75 lo max.
- Units should be characterised within systems. External components required.
- Input fusing is recommended based on surge current and maximum input
- 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 12 μ H. 12 μ H 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.

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

TIBLEGOW SPECIFICATIONS	
Central office interface A	ETS300-132-2

International Safety Standard Approvals



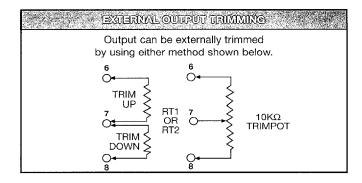
VDE0805/EN60950/IEC950 File No. 10401-3336-1095



TU UL1950 File No. E136005



CSA C22.2 No. 950 File No. LR41062C



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KOWeer Six	FUNCTION .	
1	- Vin	
2	Case	
3	Remote ON/OFF	
4	+ Vin	
5	+ Vout	
6	+ Sense	
7	Trim	
8	- Sense	
. 9	- Vout	

