Rev.05.13.08 bxb150 1 of 4

BXB150 Series Single output

Total Power: 150 W **Input Voltage:** 18 - 36 Vdc

36 - 75 Vdc

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



Electrical Specifications

Output		
Voltage adjustability:		60% to 110%
Setpoint accuracy:		±1.0%
Line regulation	Low line to high line	±0.5%
Load regulation	Full load to min. load	±0.10%
Minimum load		0 %
Overshoot	At turn on and turn-off	None
Undershoot		None
Ripple and noise	3.3 V and 5 V	75 mV pk-pk, 20 mV rms
5 Hz - 20 MHz (see note 1)	12V and 15 V	20 HV HHS 100 mV pk-pk, 30 mV rms
Tomporature coefficient		±0.01% / °C
Temperature coefficient		· ·
Transient response (see note 2)		±2.0% max. deviation 170 μsrecovery to within ±1.0%
Remote sense		0.5 Vdc transmission line drop compensation
		line drop compensation

Safety

VDE0805/EN60950/IEC950

UL1950

CSA C22.2 No. 950





Rev.05.13.08 bxb150 2 of 4

Input					
Input voltage range	24 Vin nominal	18 - 36 Vdc			
	48 Vin nominal	36 - 75 Vdc			
Input current	No load	130 mA max.			
	Remote OFF	20 mA max.			
Input current (max.)	24 Vin	9.0 A max. @ lo max.			
(See note 4)	48 Vin	and Vin = 0 to 75 V 6.5 A max. @ lo max.			
	10 111	and Vin = 0 to 75 V			
Input reflected ripple	(See note 6)	5 mA pk-pk			
Active low remote ON/OFF	(See note 7)				
Logic compatiblity ON		Open collector ref to -input 1.2 Vdc max.			
OFF		Open circuit			
Undervoltage lockout:	24 Vin: power-up	17 V			
	24 Vin: power-down 48 Vin: power-up	16.3 V 34 V			
	48 Vin: power-down	32.5 V			
Startup time (see note 8)	Power-up	20 ms			
	Remote ON/OFF	20 ms			
EMC Charateristics					
Conducted emissions (see note 3)		Level A			
	FCC part 15 EN55022, CISPR22	Level A Level A			
Canaral Specifications	ENDOUZZ, CISPRZZ	Level A			
General Specifications Efficiency		See table			
Isolation voltage	Input/case	1500 Vdc			
isolation voltage	Input/output	1500 Vdc			
	Output/case	1500 Vdc			
Switching frequency	Fixed	500 kHz typ.			
Approvals and		VDE0805, EN60950, IEC950			
standards (see note 5)		UL1950, CSa c22.2 No. 950			
Case material	Aluminum baseplate with plastic case				
Weight		110 g (3.88 oz)			
MTBF	Bellcore 332 MIL-HDBK-217F	1,400,000 hours 580,000 hours min.			
	@ 40 °C, 100% FL	300,000 110013 111111.			

Environmental Specifications

Thermal performance	Operating case temp. Non-operating	-40 °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.)
Protection		
Short-circuit	Continuo	ıs, automatic recovery
Overvoltage		Non-latching
Undervoltage		Non-latching
Thermal	110 °C baseplate	e, automataic recovery

Telecom Specifications	
Central office	ETS300-132-2
interface A	

Rev.05.13.08 bxb150 3 of 4

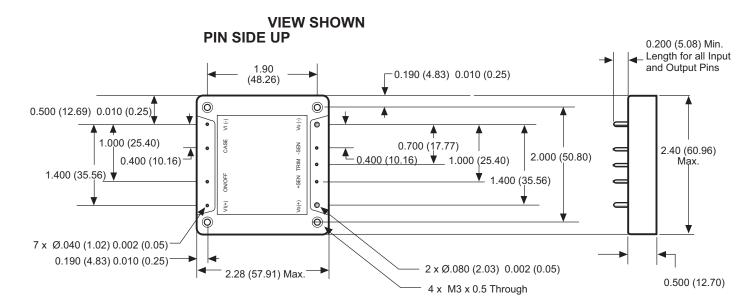
Ordering Information									
Output	Input	01/15	Output	Output	Output	Efficiency	Regulation		
Power (Max.)	Voltage	OVP	Voltage	Current (Min.)	Current (Max.)	(Typ.)	Line	Load	Model Number
100 W	18 - 36 Vdc	4.3 Vdc	3.3 V	0 A	30 A	77%	±0.05%	±0.1%	BXB150-24S3V3FLTJ
100 W	36 - 75 Vdc	4.3 Vdc	3.3 V	0 A	30 A	79%	±0.05%	±0.1%	BXB150-48S3V3FLTJ
150 W	36 - 75 Vdc	6.5 Vdc	5 V	0 A	30 A	84%	±0.05%	±0.1%	BXB150-48S05FLTJ
150 W	36 - 75 Vdc	14.5 Vdc	12 V	0 A	12.5 A	84%	±0.05%	±0.1%	BXB150-48S12FLTJ
150 W	36 - 75 Vdc	17.5 Vdc	15 V	0 A	10 A	88%	±0.05%	±0.1%	BXB150-48S15FLTJ

Notes

- 1 Measured with 10 μ F tantalum capacitor and 1 μ F ceramic capacitor across
- $di/dt = 0.1 \text{ A}/1 \,\mu\text{s}$, 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 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. **BXB150-48S05FHTJ**. 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 sales representative or use the on-line model number search tool at http://www.powerconversion.com to find a suitable alternative.

External Output Trimming	Pin connections			
Output can be externally trimmed	Pin Number	Function		
	1	+Vin		
by using the method shown.	2	Remote ON/OFF		
	3	Case		
TRIM \$	4	-Vin		
UP \$	5	-Vout		
7	6	-Sense		
TRIM S RT2	7	Trim		
DOWN Ş	8	+Sense		
	9	+Vout		

Mechanical Drawing



ALL DIMENSIONS IN INCHES (mm)

Tolerance: x.xx 0.02in. (0.51mm) 0.010in. (0.254mm) X.XXX

Embedded Power for Business-Critical Continuity

Rev.05.13.08 bxb150 4 of 4

Americas

5810 Van Allen Way Carlsbad, CA 92008 USA

Telephone: +1 (760) 930 4600 Facsimile: +1 (760) 930 0698

Europe (UK)

Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX United Kingdom

Telephone: +44 (0) 1384 842 211 Facsimile: +44 (0) 1384 843 355

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong

Telephone: +852 2176 3333 Facsimile: +852 2176 3888

For global contact, visit:

www.powerconversion.com techsupport.embeddedpower @emerson.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson Network Power.

The global leader in enabling business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- **Embedded Power**
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2008 Emerson Electric Co.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Isolated DC/DC Converters category:

Click to view products by Artesyn Embedded Technologies manufacturer:

Other Similar products are found below:

ESM6D044440C05AAQ FMD15.24G PSL486-7LR PSR152.5-7IR Q48T30020-NBB0 AVO240-48S12B-6L AVO250-48S28B-6L NAN0505 HW-L16D JAHW100Y1 217-1617-001 22827 SPB05C-12 SQ24S15033-PS0S 18952 19-130041 CE-1003 CE-1004 GQ2541-7R
PSE1000DCDC-12V RDS180245 MAU228 419-2065-201 449-2075-101 V300C24C150BG 419-2062-200 419-2063-401 419-2067-101
419-2067-501 419-2068-001 DFC15U48D15 449-2067-000 XGS-0512 XGS-1212 XGS-1212 XGS-2412 XGS-2415 XKS-1215 033456
NCT1000N040R050B SPB05B-15 SPB05C-15 VI-26B-CU V24C12C100BG L-DA20 HP3040-9RG HP1001-9RTG DCG40-5G XKS2415 XKS-2412