

BCM Series

210 - 300 W DC/DC BUS CONVERTER MODULE

Features

- Fixed ratio bus converter.
- Output power: Up to 300W.
- Available in 48, 352 and 384 V inputs.
- Small footprint: 1.1in² (7.1cm²).
- High density – up to 1,095 W/in³.
- 125°C operation.
- Efficiency up to 97%.
- >3.5 million hours MTBF.
- No output filtering required.
- Pick & Place / SMD compatible.



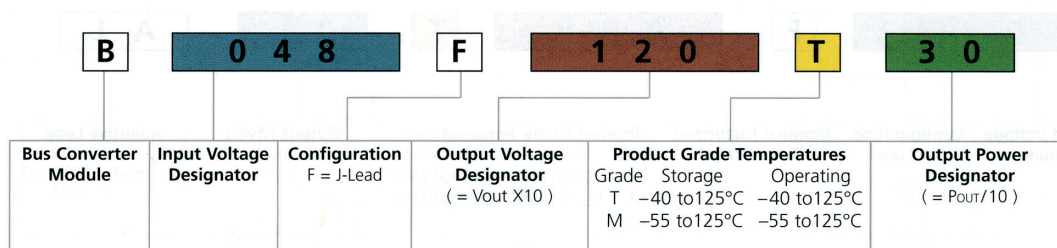
Bus Converter Module (BCM)

PRODUCT DESCRIPTION

The Bus Converter Module (BCM) is a member of the new family of V•I Chips. It provides an isolated intermediated bus voltage to power non-isolated POL converters from a narrow range DC input or can be used as an independent DC source. The BCM offers superior performance and lower cost than conventional bus converters. BCMs are available in standard 48V telecom as well as high-voltage offline input ranges.

Due to the fast response time and low noise of the BCM, the need for limited life aluminium electrolytic or tantalum capacitors at the load is reduced - or eliminated - resulting in savings of board area, materials and total system cost.

Part Numbering



Input Voltage	K Factor	Vout		Max Power	BCM Model No.
		@ 48 Vin	Range		
38 – 55 Vdc	1/16	3.0 Vdc	2.38 – 3.43 Vdc	210 W	B048F030T21
	1/12	4.0 Vdc	3.17 – 4.58 Vdc	200 W	B048F040T20
	1/8	6.0 Vdc	4.75 – 6.87 Vdc	240 W	B048F060T24
	1/6	8.0 Vdc	6.33 – 9.16 Vdc	240 W	B048F080T24
	1/5	9.6 Vdc	7.60 – 11.00 Vdc	240 W	B048F096T24
	1/4	12.0 Vdc	9.50 – 13.80 Vdc	300 W	B048F120T30
	1/3	16.0 Vdc	12.70 – 18.30 Vdc	240 W	B048F160T24
	1/2	24.0 Vdc	19.00 – 27.50 Vdc	300 W	B048F240T30
	2/3	32.0 Vdc	25.30 – 36.70 Vdc	300 W	B048F320T30
	1	48.0 Vdc	38.00 – 55.00 Vdc	300 W	B048F480T30

Input Voltage	K Factor	Vout		Max Power	BCM Model No.
		@ Nom. Vin	Range		
330 – 365 Vdc	1/32	11.0 Vdc	10.30 – 11.4 Vdc	240 W	B352F110T24
360 – 400 Vdc	1/32	12.0 Vdc	11.25 – 12.5 Vdc	300 W	B384F120T30