

**BC 1500 BM is a compact DC power supply and battery charger with nominal output of 28V 50 Amps. It is designed for the supply of power to sensitive electronics, with or without backup battery. BC 1500 BM is designed to accept large input voltage variations.**



**NSN 6130-25-150-3126**

The BC 1500 BM input corrected, and is configured for sources such as portable high due to the soft switching high frequency magnetic components make the unit lightweight and compact.

current is power factor optimum adaptation to weak power generators. The efficiency is very converter technology. The planar direction.

Several units can be interconnected in a redundant system.

The unit is protected from over voltage, short circuit and over current.

## Functions

<b>Over temperature</b>	The unit is protected from over temperature, derating.
<b>Output circuit breaker</b>	If an output current higher than aprox. 70 Amps occurs, a circuit breaker is released and rectifier is shut off.
<b>Input circuit breaker</b>	The input circuit breaker is rated for 25 Amps.
<b>Input voltage</b>	When the input voltage decreases to a given level, the rectifier is shut off. When the voltage returns, the rectifier is turned on again.
<b>Connectors</b>	AC: MS3102E16-10P DC: MS3102E22-2S Par: Binder 09-0482-00-03
<b>Acoustic noise</b>	Max. 35 dBa at 50Hz
<b>Frequency</b>	47 - 63Hz

# BC 1500 BM Power supply

## SPECIFICATION

### Electrical data at 50Hz input voltage

Input voltage	99 – 264 VAC
Input current at nominal load	7.3 Amps at 230 VAC 14.3 Amps at 115 VAC
Power Factor (PF)	> 0.95, (typical 0.99)
Efficiency at full load	>86% at 230 VAC
Nominal output voltage	28 VDC (adj. 22–30 VDC)
Nominal output current	50 Amps
Load sharing	Better than 10% deviation with 4 units in parallel
Output voltage ripple and noise	< 100mV p-p, 20 MHz bandwidth
Output voltage regulation	±0,5% zero/max load
Max input current	19.5 Amps at 99 VAC
Rated input current	16.0 Amps at 115 VAC 7.5 Amps at 230 VAC
Total Harmonic Distortion (THD)	<8% at full load
Short circuit current	≤58.0 Amps

### EMC

**TREE:** QSTAG 620  
(Transient Radiation Effect on Electronics)

**Electromagnetic Interference**  
MIL-STD-461D: CE101, CE102, RE102, RS103, CS101, CS114 and CS 116

**Electromagnetic Pulse (EMP)**  
The power supply is able to operate without fault after exposure to EMP levels defined in paragraph A5 of QSTAG 244, edition no 3, amendment no. 1.

**Electrostatic discharge**  
The power supply meets the requirements of MIL-STD-1686 for ESD

**Safety**  
In accordance with IEC 950, UL recognised

**Encapsulation**  
IP54

**Cooling**  
Forced air by speed controlled fan

### Environmental conditions

**High temperature**  
Operation  
MIL-STD-810E: Method 501.3, Procedure II, hot induced +55°C

Storage  
MIL-STD-810E: Method 501.3, Procedure I, hot induced, 71°C

**Low temperature**  
Operation  
MIL-STD-810E: Method 502.3, Procedure II, - 40°C

Storage  
MIL-STD-810E: Method 502.3, Procedure I, -51°C

**Temperature shock**  
MIL-STD-810E: Method 503.3, -51° - +48°C, (Non-operational)

**Humidity**  
MIL-STD-810E, Method 507.3

**Vibration**  
MIL-STD-810E. Method 514.4, cat. 1 (Basic Transportation), cat. 3 (Loose Cargo), cat. 8 (Ground Mobile)

**Shock**  
MIL-STD-810E. Method 516.4, Procedure I, functional shock

**Crash hazard**  
MIL-STD-810E, Method 516.4, Procedure V

**Bench handling**  
MIL-STD-810E, Method 516.4, Procedure VI

**Fungus**  
Analysis of the degree of inertness to fungus growth of the components in accordance with MIL-HDBK-454

**Altitude**  
MIL-STD-810E: Method 500.3, Procedure I (Storage), II (Operation), and III (Rapid decompression), Test altitude is 4750 metres at 57.2Kpa for all tests

### Mechanical data

Dimensions W x D x H	273 x 355 x 193mm (10.7" x 14" x 7.6")
Weight	14.9kg (43.9lbs)