

Military-grade extrusion ensures a high tolerance for shock and vibration

Visual indicators for operation and errors

Can function as a voltage converter



IP66 rated, can be used in wet location

Fast and accurate charging

3 YEAR WARRANTY



BCD805W-12-24
DC SOURCE SEALED BATTERY CHARGER

The BCD805W Series battery charger provides up to 800 watts of power to charge a 24 volt battery from a 12 or 24 VDC source. Internally, the proven current mode switching design offers increased power and dependability in a compact package, while extra input and output filtering reduce EMI to extremely low levels.

The BCD805W is housed in a rugged IP66 rated water resistant extruded aluminum housing (IP67 option available).

Safety features include over-temperature shutdown with automatic recovery, current limiting, short circuit protection with automatic recovery, input undervoltage shutdown, output overvoltage protection, and both input and battery reverseconnection protection. Available options include a carry handle and feet, IP67 chassis, and military version.

Available models

Input

12 VDC

24 VDC

Output

24V

Applications



BCD805MW | DC SOURCE SEALED BATTERY CHARGER

INPUT

	12-24	24-24
Nominal Voltage	12 VDC	24 VDC
Actual Voltage	11-16 VDC	20-35 VDC
Input Amps	80 A Max.	40 A Max.
Noise on Input Voltage	< 50 mV peak-peak	

OUTPUT

	12-24	24-24
Output Nominal	24 VDC	24 VDC
Output Volts	27.2 ± 0.05 VDC	27.2 ± 0.05 VDC
Charging Amps	30 A	20 A
Output Crowbar Protection	32.0 ± 1.0V	
Output Voltage Adjustment	± 10%	
Switching Frequency	60 ± 2.0 KHz	
Idle Power	< 10 Watts	
Output Ripple & Noise	< 50 mV	
Transient Response	< 2V for 50% surge	
Regulation (Line & Load)	< +/- 0.5%	
Duty Cycle	Continuous: 100% for 24 hours	
Charging Stages	2-stage charging (Constant current to constant voltage)	
Efficiency	> 85% @ Maximum output	

MECHANICAL

Dimensions	16.3 in / 41.4 cm Long x 8.4 in / 21.3 cm Wide x 3.9 in / 9.9 cm High
Clearance	1.0 in / 2.5cm all around
Weight	16.0 lb / 7.3 kg
Packaging	Watertight - Fully sealed to IPS66 (IP67 Optional)
Material and Finish	Marine Grade Black Anodized Aluminum with 18-8 Stainless Fasteners
Connections	DC In and Out – Marathon ST722B2502UH, 175 Amp, 300V Rating c/w Protective Snap On Cover
Shock and Vibration	Designed to meet MIL810G

ENVIRONMENTAL AND SAFETY

Operating Temperature Range	-40°C to +55°C @ maximum output. Derate Linearly 2.5% per °C from +55C
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating
Emissions	Designed to meet MIL461F
Isolation	Input-Case & Output-Case 1500VDC, Input/Output Common Negative
Audible Noise	Ødb @ 3 ft (40 dB when fans operating)
Typical Service Life	> 10 years (87,600 hrs)
Duty Cycle	Continuous 100% for 24 hours
Warranty	Three years parts and labor

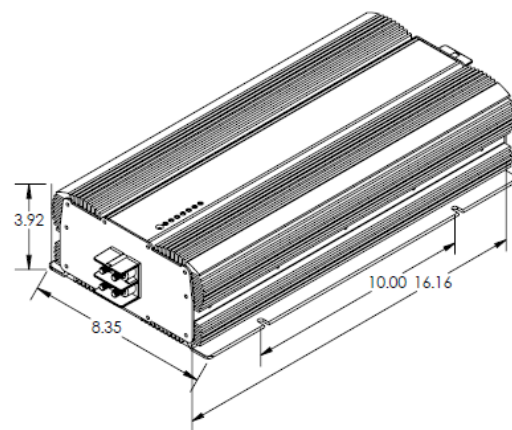
OPTIONS

OPT-M: COTS - MIL version (designed to meet MIL-461F and MIL810G in-house test)

OPT-P: Portable (folding carry handle and rubber feet)

OPT-E: European ROHS compliant (Lead Free Manufactured)

DIMENSIONS



ANALYTIC SYSTEMS
Power Conversion Solutions



AnalyticSystems.com



sales@analyticssystem.com



604.946.9981 800.668.3884



101-8128 River Way
Delta BC V4G 1K5