

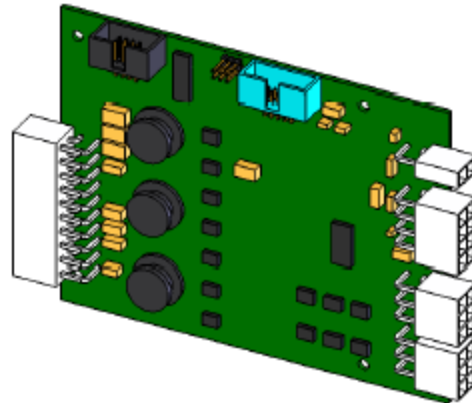


Intelligent Battery and Power System (IBPS)™

BBDC-02R Battery Management Module

Data Sheet

The IBPS BBDC-02R offers integrated smart battery charging and ATX power supply function in one module. The module supports two BA95HC smart battery packs for up to 190 Watt-hours of battery power. The ATX power supply electronics are ultra efficient and supply 12V @ 7Amps; 5V & 3.3V @ 10 Amps; -12V @ 0.3A with efficiencies up to 98%. This gives equipment manufacturers a fully engineered, drop-in solution for adding autonomous battery-based regulated power to a PC Motherboard or other device requiring ATX voltages.



Basic Data for BBDC-02R

- > Module Size 3.55" x 4.9"
- > Max Power Limits: Current 8.25 Amps; Power 100 Watts
- > Charge Current (Per Battery 4 Amps; Per Module 4 Amps)
- > Charge DC Voltage 18-24 Volts; Charging Simultaneously Level III
- > Battery Packs Supported 1-2 Smart Packs (Standard Packs 14.4V 95 Watt hour Pack)
- > Standard Packs are 14.4V Nominal (Discharge Range 16.8 - 12 Volts)
- > Controller Supports Both MiniBats and FullBats Monitoring Software
- > RoHS Compliant; Visit OceanServer Download Page for Drawings and 3D Models

Standard Integrated ATX Power (Regulated Output)

- > BBDC-02R provides ATX Voltages 3.3V @10A Max, 5V @10A Max, 12V @ 7A Max (-12V standard)

BBDC-02R Evaluation Kit

- > EK-03 Regulated Power Kit - Includes BBDC-02R, power supply, cables and software

BBDC-02R Series Applications

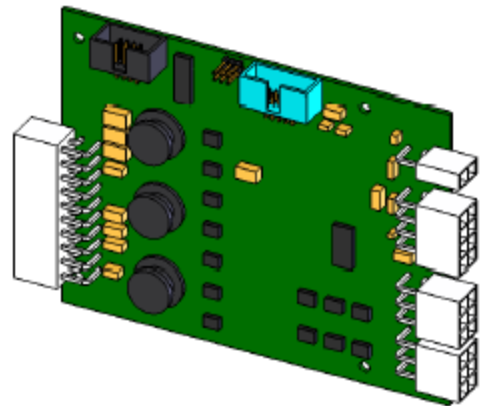
The BBDC-02R module powers a range of systems requiring up to 100 Watts of continuous power. The module offers a complete set of electronics for battery management and charging with standard ATX output. The perfect solution for OEMs to limit R&D expenses and add a complete Lithium Ion battery solution to any portable electronic device including data loggers, wireless network devices and small instruments requiring ATX voltages.

All of the OceanServer Battery Management modules have a RS232 communication port that provides complete power system information about all of the battery packs connected. This information includes, fuel gauge, current, voltage, amp-hours, run time to empty, time to full charge, and 20 other critical battery parameters on a pack by pack basis

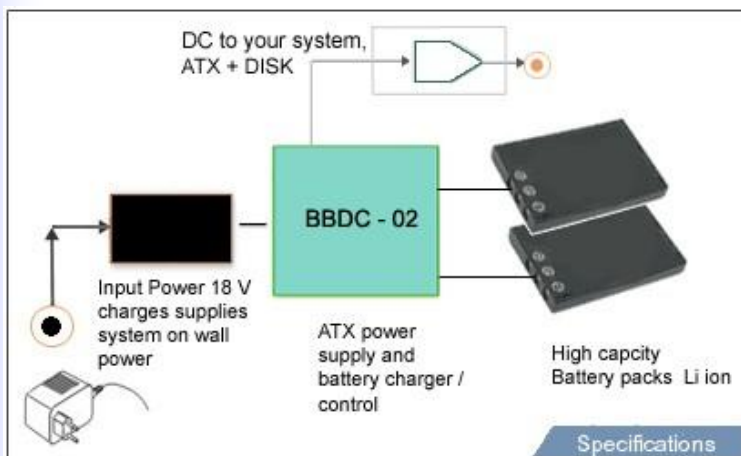
The BBDC-02R can be purchased as part of the EK-03 kit that includes cables and software. In addition, OceanServer offers a variety of 95 Watt Hour Lithium Ion Rechargeable battery packs to integrated into your system (sold separately). Evaluation kits can be purchased on OceanServer's online store:

<http://www.oceanserver-store.com/evaluation-kits.html>

.....Make Any Device
Battery Powered



3D Models and Drawings
available on OceanServer
Download Page



Example configuration powering system with a BBDC-02R with integrated ATX power and 190 Watt Hours of Lithium Ion Rechargeable battery power. This product is used by hundreds of OEMs world wide and works right out of the box.



MiniBats Software

www.ocean-server.com

OceanServer
TECHNOLOGY, INC