



Intelligent Battery and Power System (IBPS)™

BC-1022 Dual Channel Battery Management Module

Data Sheet

The BC-1022 gives equipment manufacturers a very small, drop-in solution for adding autonomous battery based power to new or existing designs. For size and weight-sensitive applications, the BC-1022 Battery Management Module with 1-2 smart battery packs based on the latest Lithium-Ion chemistry, provide best in class energy density at one-quarter of the weight if compared to lead-acid battery systems. Users can quickly make any small device battery powered with a single BC-1022 module, or cluster together multiple battery controller modules for larger systems or extended operation.



Basic Data for BC-1022

- Module Size 1.65" x 2.25"
- Max Output Power Limits: (100 Watts/50 Watts per Battery Pack)
- Charge Current (up to 1 Amp)
- Charge DC Voltage 12-30 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 12 - 16.8 Volts)
- Controller Supports OceanServer's Windows Monitoring Software (Fullbats)
- RoHS Compliant; Visit [OceanServer Download Page](#) for Drawings and 3D Models

Optional Regulated Outputs (DC/DC Converters)

- BC-1022 Options: ATX (12V, 5V, 3.3V & -12V), 19V, 24V, 28V, 48V

BC-1022 Evaluation Kit

- EK-06 Unregulated Power Kit - Includes BC-1022 Battery Controller, AC/DC Power Supply, Cables and Windows software (User can add 1 to 2 battery packs sold separately)
- EK-07 Regulated Power Kit - Includes BC-1022 Battery Controller, ATX Converter, AC/DC Power Supply, Cables and Windows software (User can add 1 to 2 battery packs sold separately)

BC-1022 Series Applications

The BC-1022 Battery Management Module powers a range of systems requiring up to 14 Amps of continuous power. The module offers a complete set of electronics for battery management and charging, plus a variety of voltage outputs when coupled to optional regulated DC modules. These fully engineered products provide a perfect solution for OEMs seeking to limit R&D times and expenses while adding Lithium Ion battery power to portable electronic devices such as data-loggers, wireless network devices, remote sensors and small instruments.

The OceanServer Battery Management Modules have a single RS232 communication port that provides complete power status information for a single module or multiple units clustered together. This information includes a fuel gauge displaying current, voltage, amp-hours, run time to empty, time to full charge, and other critical parameters.

The BC-1022 can be purchased as part of the EK-06 Evaluation Kit, which contains assorted cables and demonstration software. OceanServer offers a variety of 89 to 95 Whr Lithium Ion rechargeable battery packs for integration into a system (sold separately). Evaluation Kits can be purchased at OceanServer's online store:

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

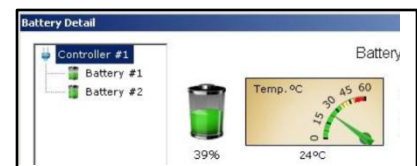
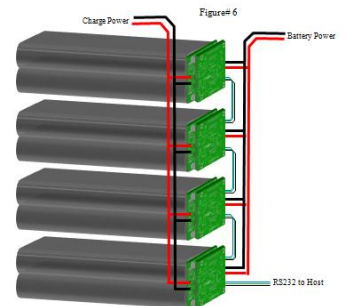


Example configuration powering a system with a BC-1022 enabling OEMs to quickly add two high capacity rechargeable battery packs with 190 Watt Hours total capacity .

.....Make Any Device
Battery Powered



**Supports Small Battery
Clusters for Larger Capacity
and longer runtimes**



FullBats Monitoring Software

www.ocean-server.com

OceanServer
TECHNOLOGY, INC