



Intelligent Battery and Power System (IBPS)™

MP-08 Battery Management Module

Data Sheet

The IPBS MP-08 gives equipment manufacturers a fully engineered, drop-in solution for adding autonomous battery-based power to new or existing designs. For size and weight sensitive applications, the MP-08 battery packs, based on Lithium-Ion chemistry, provides up to five times the power, at one-quarter of the weight, of comparable lead-acid battery systems. The MP-08 can be used to create very large battery systems by clustering modules together. A single stack can support up to 760 Watt Hours of rechargeable Lithium Ion battery power.

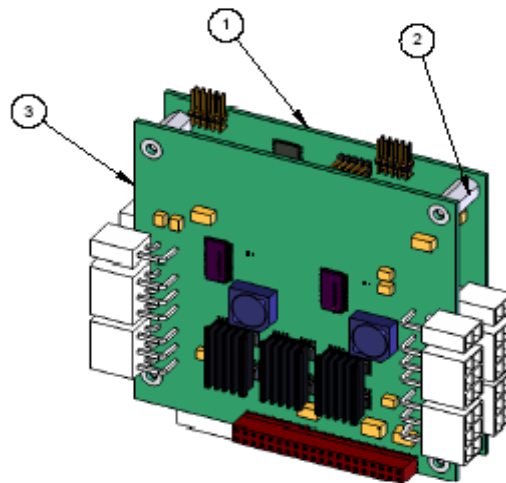


Image Shows: 1. Bottom Module 2. Standoffs 3. Top Module

Specification

Basic Data

- Size 3.55"x3.775" PC/104 (PCB only 2 Board Stack)
- Max. Power Limits: Current 40 Amps; Power Out 480 Watts
- Charge Current (Per Battery pair; per module) 4Amps; 16Amps
- Charge DC Voltage 18-24 Volts; Charging Simultaneously Level III
- Battery Pack Supported 1-8 Smart Packs (Standard Smart Packs 14.4V 95 Whr)
- 14.4V Standard Smart Pack Discharge Voltage Range 16.6 Volts – 12 Volts
- Supports both Mini Bats and Full Bats OceanServer monitoring software
- Mechanical Drawing available on OceanServer download Page

Optional DC-DC Converter Modules (Regulated Outputs)

- DC-023 provides ATX Power 3.3V@ 10A(Amps) Max, 5V@ 10A Max, 12V@ 7A Max (-12V optional)
- DC2U-1V provides either (Jumper Selectable) ~ Max Outputs 19V@12A, 24V@10A, 28V@8.5A or 48V@5A (Module size 3.6" x 3.8")

Additional Options

- LCD Display (16x2 Character Display)
- CB-04 Communications Board (for clustered applications)