

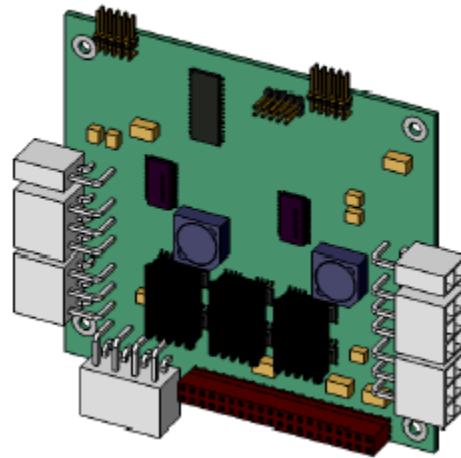


Intelligent Battery and Power System (IBPS)™

MP-04 Battery Management Module

Data Sheet

The IPBS MP-04 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 MP-04 battery packs, based on Lithium-Ion chemistry, provide up to five times the power, at one-quarter of the weight, of comparable lead-acid battery systems. The MP-04 can support higher power requirements than the BB-04 and also provides 380 Watt Hours of rechargeable Lithium Ion battery capacity with all the battery channels fully populated.



Specification

Basic Data

- Size 3.55"x3.775" PC/104 (PCB only)
- Max. Power Limits: Current 20 Amps; Power Out 240 Watts
- Charge Current (Per Battery pair; per module) 4Amps; 8Amps
- Charge DC Voltage 18-24 Volts; Charging Simultaneously Level III per Smart Battery Spec Rev 1.1
- Battery Packs Supported 1-4 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 on OceanServer download Page

Optional DC-DC Converter Modules (Regulated Outputs)

- DC023 provides ATX Power ~ Max Outputs: 3.3V@ 10A(Amps), 5V@10A, 12V@ 7A and -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)