

# Energy Dense Power Systems, LLC

## Power 12 Battery Box Power Management System Data Sheet



The Power12 Battery Box is a safe, portable, rechargeable Lithium Ion power solution for a wide range of remote devices. The flexible 1140 Watt Hour design enable users the choice of various Regulated DC output voltages such as Power Over Ethernet (POE), 19V, 24V, 28V or 48V. Systems are used at sea or in the field to power devices or equipment that need extended off grid power for sensors, communication equipment, medical devices, notebook computers or anything that can run off DC power. Users are never left in the dark with a real-time LCD display providing critical power data such as total capacity, charge state and runtime to empty.

### Specifications

- Portable Size: 14.2" x 11.4" x 7.7"
- Simple Autonomous Operation Model
- Weather Resistant Storm Case (Multiple Colors)
- Light Weight: Power12 System 9 Lbs (No Packs Included)
- Battery Pack Number: 1-12 Units (1.6 Lbs each)
- Supports COTS Li-Ion Smart Packs (such as Molicel ME202CJ, Inspired Energy 95w)
- Optional support for RS232 Data Port
- Solar, Vehicle and AC/DC Charging Options
- Microprocessor Controlled for Event Management
- Single Voltage Output: POE, 19V, 24V, 28V, 48V
- Up to 240 Watt Output (Configuration Dependant)
- Capacity with 12 Packs installed 1140 Watt Hours
- Pack Reversing Supported for Safe Shipping and Storage
- Real-time LCD with Continuous Update
- 6-8 Hour Empty to Full Charge time
- Typically Battery Pack Specification\* :
  - Discharge Temperature: -20C to 60C
  - Charging: 0C to 45C

*\*Users should check with Battery Pack manufacturer for specific data*

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The Power12 Battery Box microprocessor continuously communicates with the attached Smart battery packs in the system, managing charging and discharging, and responding to any key events. Energy density is maximized by using up to twelve 95 Watt Hour battery packs clustered together to provide up to 1140 Watt Hours of total battery capacity.

Typical Applications: Supplying clean, lightweight, safe and space-saving portable power to the field Sensors, Instrumentation, Marine (ROVs, AUVs Equipment), Military, Ruggedized PC, and Telecommunications Equipment Segments.

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Power and Current Discharge Rate

**LCD Display** - A very low-power 16x2 character LCD display is available to allow for visual monitoring of the Power8 battery system status.