

Intelligent Battery and Power System™

Pre-engineered Power System adds Clean, Safe, and Space-Saving Lithium-Ion Battery Back-up and Portability to your OEM Equipment.

The *Intelligent Battery and Power System* (IBPS) allows designers to add Smart rechargeable Lithium-Ion (Li-Ion) battery power as an OEM component in computers, electronic equipment and electromechanical devices. The IBPS serves as the complete AC/DC power supply. It provides clean regulated DC, sourced from Li-Ion battery packs, wall-outlet AC or external DC sources available on vehicles and ships. System designers can now easily create an isolated or portable battery backed-up device. If the AC wall power or external DC supply is lost or unplugged, the battery instantly switches in without interruption. The equipment is now portable or securely running in battery back-up mode. With external power restored, the attached battery packs recharge. The IBPS utilizes the same safety circuitry and high quality, low-cost battery cells found in laptop computers.

The IBPS microprocessor continuously communicates with the attached Smart Battery packs in the system, managing charging and discharging, and responding to key events. A variety of Battery Management Modules and DC Converters can manage up to 8 packs each, to provide up to 760 Watt-hours of high density Li-Ion battery power to your device. Larger systems can be developed using the CB-04 Communication Module to add enhanced management features. The regulated output is compatible with an ATX power supply for ease of use with off the shelf computer components.



- Fully-engineered for OEM and Embedded Applications
- Complete AC/DC Power Sub-system with Battery Power or Battery Back-up (Li-Ion or NiMH Smart Batteries)
- Modular and Scalable Battery Management
 - 1 to 2 (BBDC-02R); 1 to 4 (BB/MP/XP-04xx), or 1 to 8 (MP/XP-08xx) batteries per controller
 - 95 to 760 Watt-hours of power per controller (Li-Ion)
 - Controllers can scale to 12,000 WHrs of power
- Battery Charging from AC, vehicle/ship power, or solar panels - Simultaneous fast charging of all Smart Batteries
- Autonomous Operation - OR - full ASCII status reportable to host via RS232 communication
- Provides Raw Battery Output (16-12 V) or Regulated DC Outputs

Intelligent Battery Power System Ibps

**Sulabh Sachan, Sanjeevikumar
Padmanaban, Sanchari Deb**



Intelligent Battery Power System Ibps:

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Table of Contents Intelligent Battery Power System Ibps

1. Understanding the eBook Intelligent Battery Power System Ibps
 - The Rise of Digital Reading Intelligent Battery Power System Ibps
 - Advantages of eBooks Over Traditional Books
2. Identifying Intelligent Battery Power System Ibps
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Intelligent Battery Power System Ibps
 - User-Friendly Interface
4. Exploring eBook Recommendations from Intelligent Battery Power System Ibps
 - Personalized Recommendations
 - Intelligent Battery Power System Ibps User Reviews and Ratings
 - Intelligent Battery Power System Ibps and Bestseller Lists
5. Accessing Intelligent Battery Power System Ibps Free and Paid eBooks
 - Intelligent Battery Power System Ibps Public Domain eBooks
 - Intelligent Battery Power System Ibps eBook Subscription Services
 - Intelligent Battery Power System Ibps Budget-Friendly Options

6. Navigating Intelligent Battery Power System Ibps eBook Formats
 - ePub, PDF, MOBI, and More
 - Intelligent Battery Power System Ibps Compatibility with Devices
 - Intelligent Battery Power System Ibps Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Intelligent Battery Power System Ibps
 - Highlighting and Note-Taking Intelligent Battery Power System Ibps
 - Interactive Elements Intelligent Battery Power System Ibps
8. Staying Engaged with Intelligent Battery Power System Ibps
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Intelligent Battery Power System Ibps
9. Balancing eBooks and Physical Books Intelligent Battery Power System Ibps
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Intelligent Battery Power System Ibps
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Intelligent Battery Power System Ibps
 - Setting Reading Goals Intelligent Battery Power System Ibps
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Intelligent Battery Power System Ibps
 - Fact-Checking eBook Content of Intelligent Battery Power System Ibps
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

Intelligent Battery Power System Ibps Introduction

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