Modular Battery Technologies Inc.

Solutions for a Sustainable Future

Commoditizing Energy Storage To Enable Global Circular Economy

Extendable Battery Framework™ (EBF): A suite of groundbreaking technologies

- **Charge Node™**: Intelligent, self-contained module with built-in BMS and isolation
- **Charge Mesh™**: Adaptive, resilient power system architecture
- **Digital Twin LCTs**: Secure, enforceable control tokens for precise tracking and use control

Key Innovations

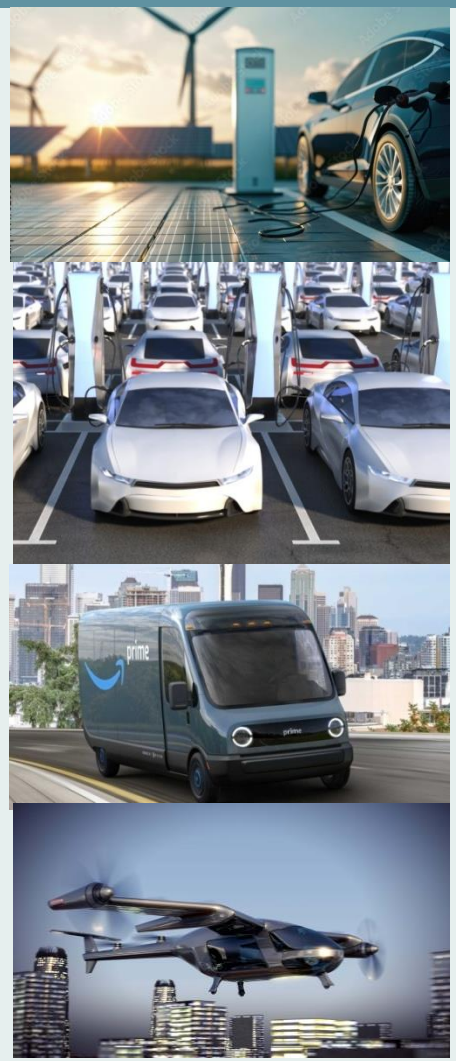
Positively prevent thermal runaway – series-only module architecture with individual cell real-time monitoring and internal relays

On-demand pack configuration – configure packs for precise use requirements as-needed

Agnostic to cell type and chemistry – facilitate rapid introduction of improvements to the market, improve market access for producers and supply access for consumers

Full module lifecycle tracking and use control – Linked Control Tokens (LCTs) in hierarchical multi-domain blockchains

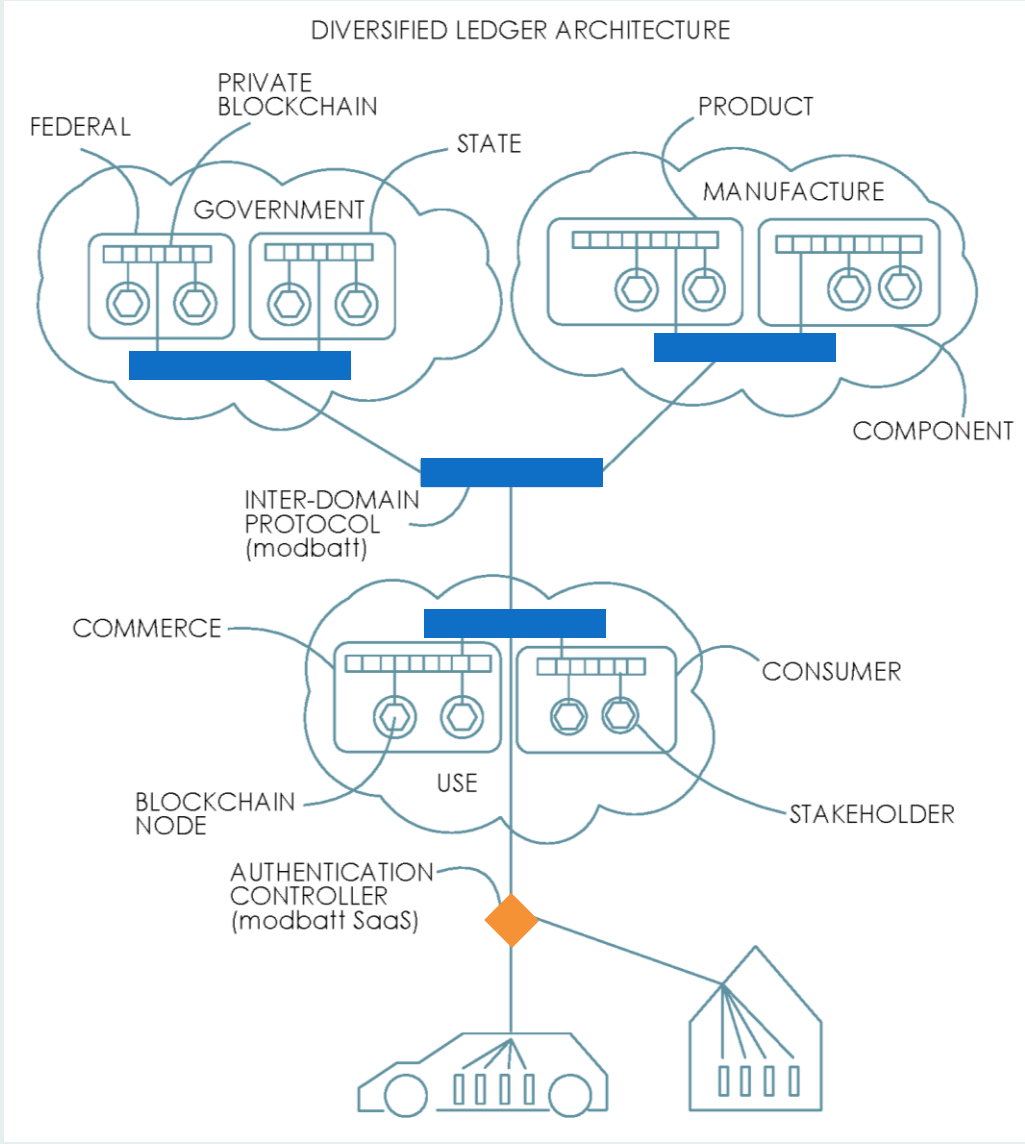
Commonality across all sectors – automotive, aerospace, marine, stationary – make full circular economy practical and cost effective via multi-use, re-use, and recycling



Diversified Ledger Architecture

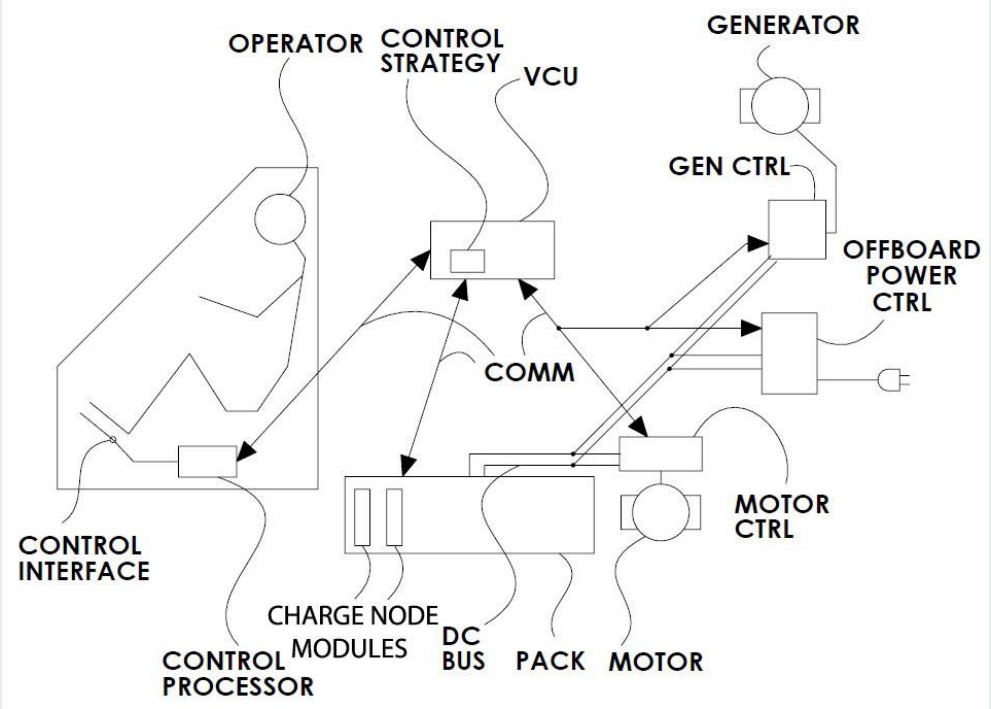
Secure, Cross-Referenced Multiple Ledgers

- **Control**: Digital twin LCTs for seamless module and vehicle integration
- **Hierarchical trust:** Multi-domain distributed ledgers efficiently connecting and informing all ecosystem stakeholders
- **Transparent and verifiable:** Robust mix of private and public blockchains with need-to-know and right-to-know access



Charge Mesh™ Power System Architecture

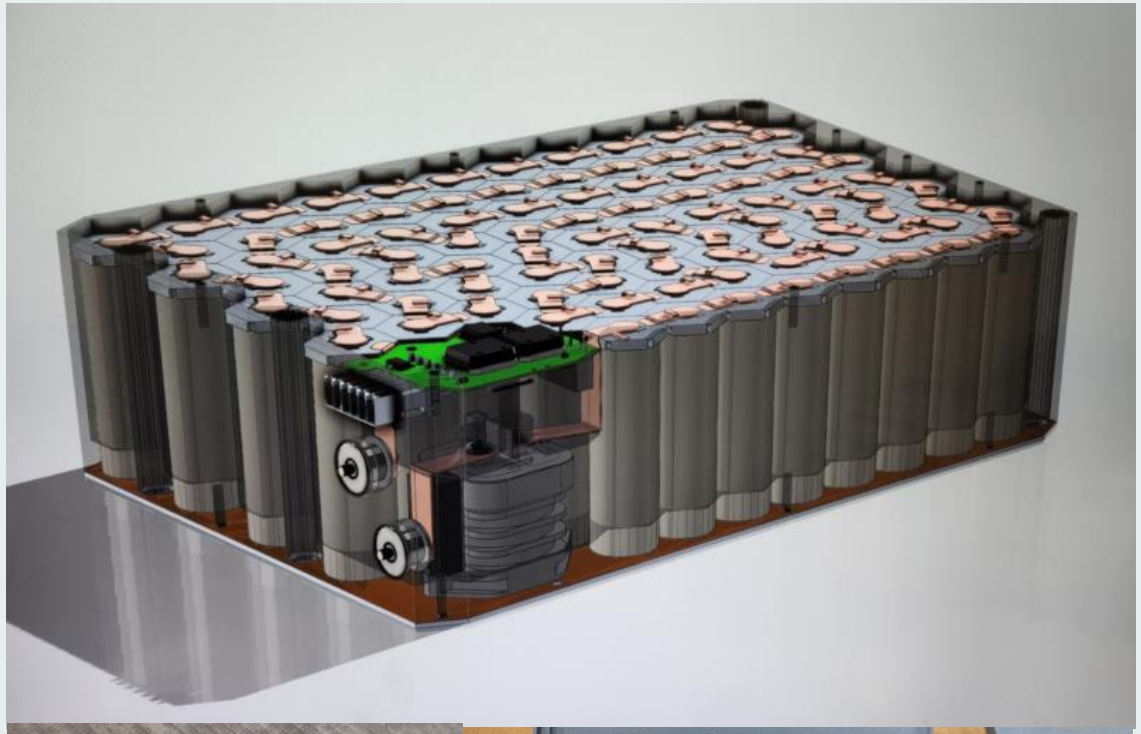
- **Adaptive Configuration**
  - On-demand pack configuration
  - Easily adjustable capacity
- **Cross-Sector Compatibility**
  - Works across automotive, marine, aircraft, and stationary applications
  - Enables true energy storage commoditization
- **Intelligent Power Management**
  - Optimizes efficiency and longevity
  - Real-time load balancing
- **Fault Tolerance and Scalability**
  - Graceful degradation if module fails
  - Scales from small devices to grid storage
- **Enhanced Safety**
  - Distributed architecture limits failure impact
  - Intelligent module isolation
- **Future-Proof Design**
  - Accommodates new battery technologies
  - Software-defined for continuous improvement



Charge Node™ Module Mechanical Specification

Safe, Efficient, and Robust Design

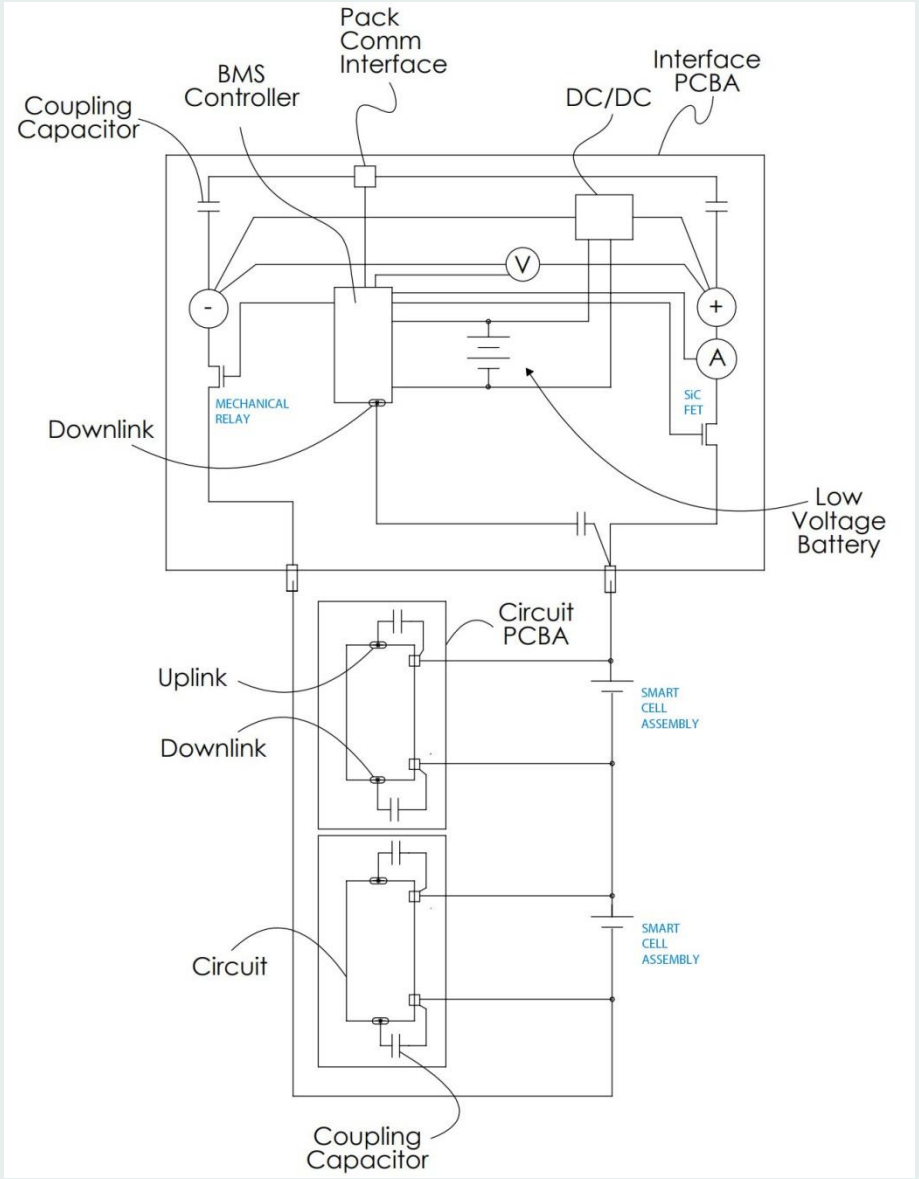
- **Connections**: Series-only to prevent uncontrolled currents
- **Cooling**: Thermally conductive encapsulation and external liquid cooling support
- **Form Factors**: Multiple sizes and voltages for diverse applications



Charge Node™ Module Electrical Specification

Advanced Safety and Communication Features

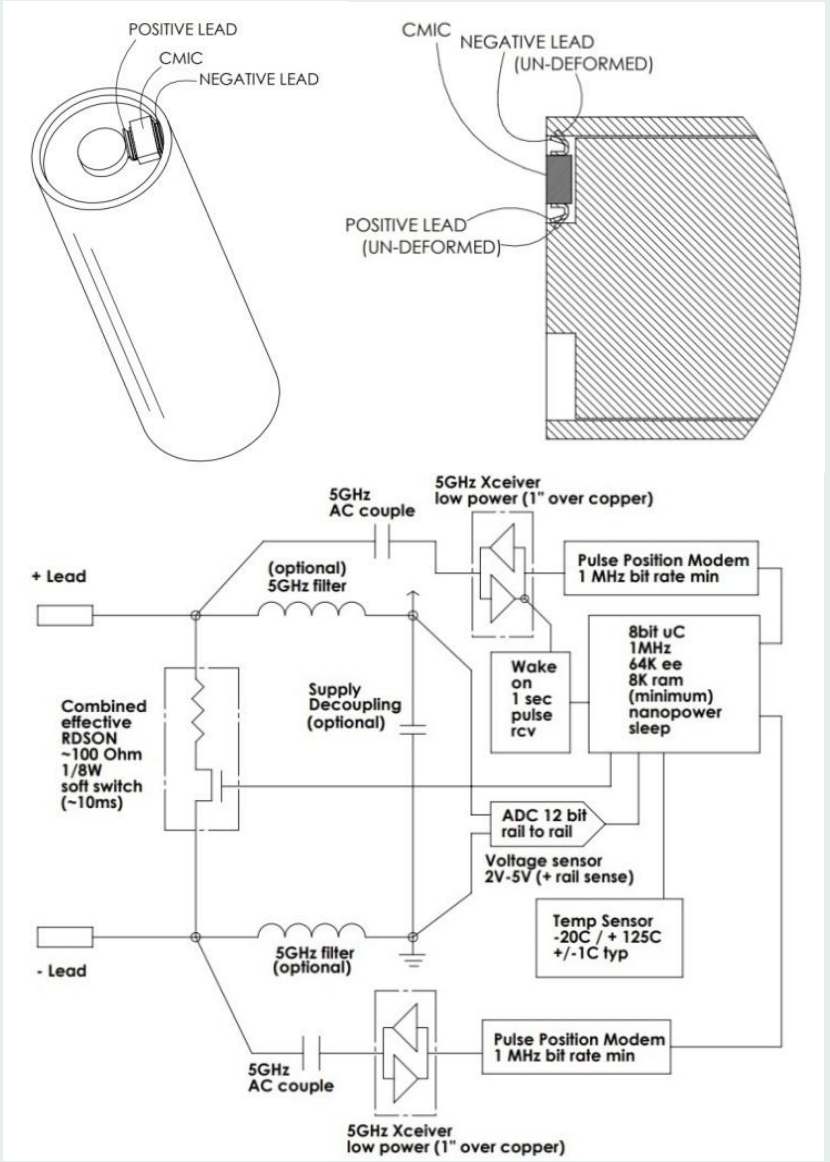
- **Isolation**: Series connections and terminal relays for secure operation
- **Smart Cells**: Voltage and temperature monitoring, balancing, and heating
- **Communication**: PLC for reliable data exchange and unique module IDs



Charge Node™ Smart Cell Circuit

Scalable BMS with Universal Compatibility and Comprehensive Monitoring

- **Monitoring**: Real-time temperature and voltage tracking
- **Communication**: AC coupled PLC and robust protocols
- **Lifecycle Management**: Unique IDs for tracking and authentication



Appendix A
List of Filed IP

1. **US11,380,942** PCT/US21/50518 **HIGH VOLTAGE BATTERY MODULE WITH SERIES CONNECTED CELLS AND INTERNAL RELAYS** Filed 02-NOV-2020 *module with series connected cells and relays* - **ISSUED 7/5/2022**
2. **US11,469,470** PCT/US21/53798 **BATTERY MODULE WITH SERIES CONNECTED CELLS, INTERNAL RELAYS AND INTERNAL BATTERY MANAGMENT SYSTEM** Filed 04-JAN-2021 *cell monitoring/conditioning circuit, PCBAs, methods* - **ISSUED 10/11/2022**
3. **US11,563,241 APPARATUS AND METHODS FOR REMOVABLE BATTERY MODULE WITH INTERNAL RELAY AND INTERNAL CONTROLLER** Filed 10-FEB-2021 *authentication methods and circuits* - **ISSUED 12/14/2022**
4. **US11,575,270** PCT/US21/55047 **BATTERY MODULE WITH SERIES CONNECTED CELLS, INTERNAL RELAYS AND INTERNAL BATTERY MANAGEMENT SYSTEM** Filed 22-FEB-2021 (CIP) *AC coupled comms and methods* - **ISSUED 02/07/2023**
5. **US11,699,817** PCT/US21/54434 **APPARATUS AND METHODS FOR REMOVABLE BATTERY MODULE WITH INTERNAL RELAY AND INTERNAL CONTROLLER** Filed 31-MAR-2021 *system, pack and module controllers, blockchain* **ISSUED 07/11/2023**
6. **US11,477,027** PCT/US21/55813 **APPARATUS AND METHODS FOR MANAGEMENT OF CONTROLLED OBJECTS** Filed 11-MAY-2021 *multi-domain management of controlled objects, LCT/blockchain* - **ISSUED 10/18/2022**
7. **US11,936,008** PCT/US21/60860 **ELECTRICAL POWER SYSTEM WITH REMOVABLE BATTERY MODULES** Filed 17-NOV-2021 *dissimilar modules in parallel* - **ISSUED 3/19/2024**
8. US17/710,759 PCT/US22/24797 **APPARATUS AND METHODS FOR MANAGEMENT OF CONTROLLED OBJECTS** Filed 31-MAR-2022 *linking of identifiable records, authorizer device pairings*
9. **US11,876,250** PCT/US22/xxx **HIGH VOLTAGE BATTERY MODULE WITH SERIES CONNECTED CELLS AND INTERNAL RELAYS** Filed 31-May-2022 *dissimilar relays, PLC control bus, linear and pwm modes* - **ISSUED 1/16/2024**
10. **US12,046,722 ELECTRICAL POWER SYSTEM WITH REMOVABLE BATTERY MODULES** Filed 12-DEC-2022 *vehicle and stationary installations having a power system, energizing a bus* - **ISSUED 7/23/2024**
11. US18/092,806 **LOW COST BATTERY CELL MONITORING CIRCUIT** Filed 3-JAN-2023 *low cost ASIC*