

VOLTGO MOBILE ENERGY SYSTEMS

Qualified Supplier Product Portfolio

Integrated mobile power solutions for RV, van conversion, off-grid and remote energy applications.



MOBILE

RV & Van Conversion



INTEGRATED

Power Hub + Battery



OFF-GRID

Remote Energy Systems



EXPANDABLE

Scalable Architecture



WHY MOBILE ENERGY SYSTEMS

Key Technologies Behind Voltgo Mobile Energy Systems



INTEGRATED ENERGY HUB

Single platform integrating inverter, battery charging, solar charging, generator charging and DC distribution.



FLEXIBLE CHARGING SOURCES

Supports shore power, generator, solar PV and vehicle charging inputs for different mobile energy scenarios.



INTELLIGENT POWER MANAGEMENT

Real-time monitoring and intelligent system control through integrated display and communication architecture.



EXPANDABLE ENERGY STORAGE

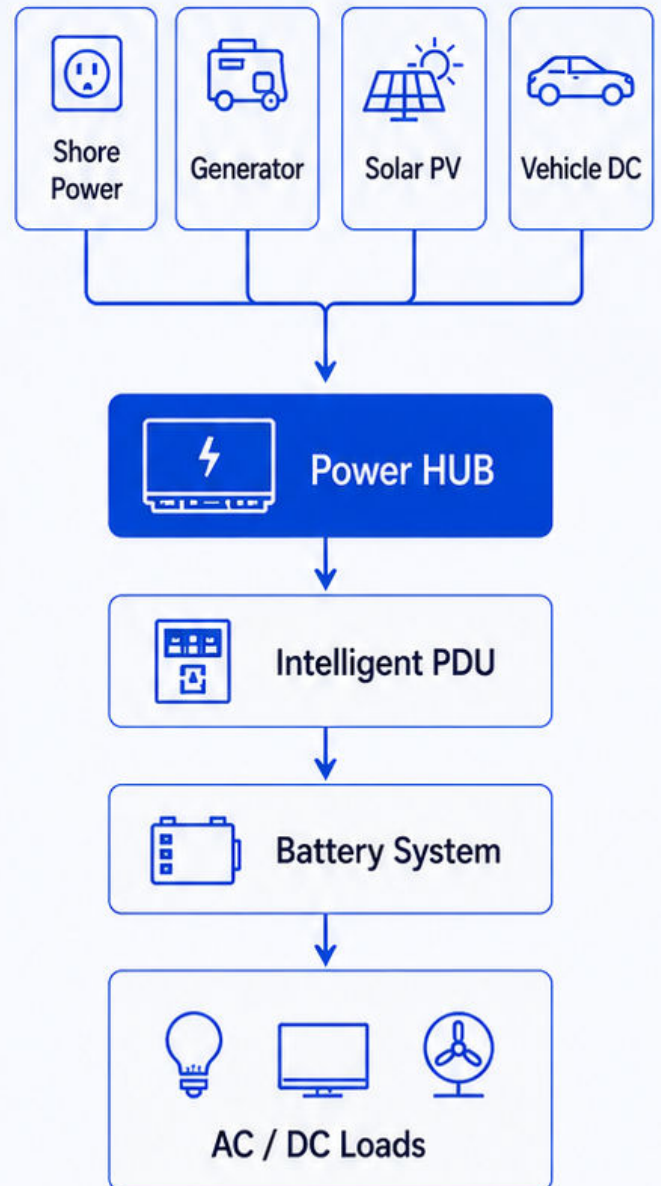
Supports scalable battery configurations to meet different runtime and power requirements.



MOBILE-READY DESIGN

Designed for RV, van conversion, off-grid mobile power and remote-site energy applications.

SYSTEM ARCHITECTURE



PRODUCT PLATFORM OVERVIEW

Four core components of the Voltgo mobile energy platform.



Power HUB



Intelligent PDU



Touch Display



LFP Battery System



POWER HUB

Main system control and power conversion unit.



INTELLIGENT PDU

Integrated power distribution module.



TOUCH DISPLAY

Monitoring and control interface.



LFP BATTERY SYSTEM

LFP battery module for energy storage.



Detailed technical specifications, installation requirements and system configuration guidance are available upon request through supplier engineering support.

POWER HUB

Integrated Power Conversion Platform



PRODUCT OVERVIEW

The Power HUB serves as the central power conversion and control unit within the Voltgo Mobile Energy System.

It integrates multiple energy inputs and supports mobile energy applications including RV, van conversion and off-grid power systems.

KEY FEATURES



Multi-Source Charging

Supports shore power, solar and vehicle charging inputs.



Integrated Design

Centralized power platform for mobile energy applications.



Intelligent Control

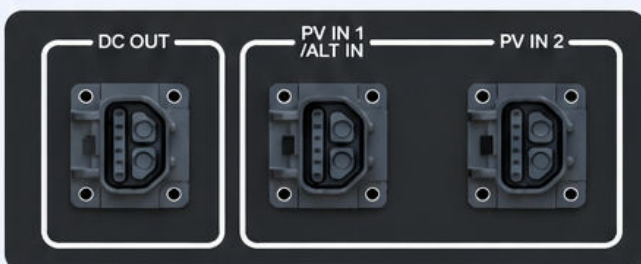
System monitoring and operational management.



Mobile Ready

Designed for mobile and off-grid energy systems.

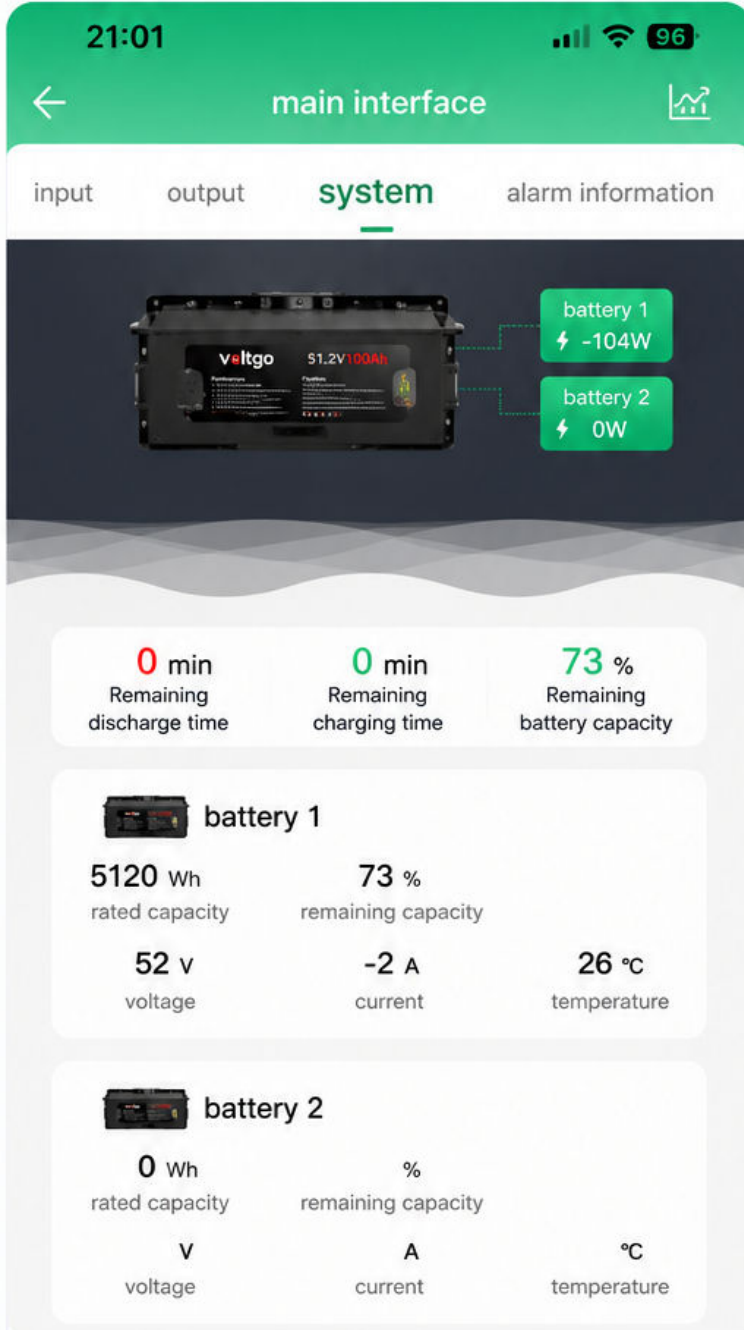
INPUT / OUTPUT INTERFACES



! Product appearance may vary depending on system configuration.

LFP BATTERY SYSTEM

Dedicated Energy Storage for the Voltgo Mobile Energy Platform



PRODUCT OVERVIEW

The Voltgo LFP Battery System serves as the energy storage component within the Voltgo Mobile Energy Platform.

The battery module is designed to operate together with the Power Hub, Intelligent PDU and Touch Display as part of the integrated system architecture.

KEY FEATURES

- 
51.2V 100Ah LiFePO4
 5120Wh usable energy with LiFePO4 chemistry for long cycle life and stable performance.
- 
Bluetooth Monitoring
 Monitor battery status in real time including SOC, voltage, current and temperature.
- 
Built-in Heating Function
 Automatic low-temperature heating ensures reliable charging in cold environments (-20~0°C).
- 
Intelligent BMS Protection
 Advanced BMS provides comprehensive protection for safe and reliable operation.
- 
IP65 Protection
 IP65-rated enclosure suitable for a wide range of mobile and outdoor applications.
- 
Certified & Compliant
 UL1973 compliant and UN38.3 certified for transportation safety.

BATTERY CONFIGURATION



Standard Battery Module	
Chemistry	LiFePO4
Nominal Voltage	51.2V
Capacity	100Ah
Energy	5120Wh



51.2V 100Ah
LiFePO4 Battery Module
Designed for the Voltgo Mobile Energy Platform.

! Product appearance and app interface may vary depending on system configuration and software version.

POWER HUB

Main Power Conversion Unit for the Voltgo Mobile Energy Platform

The Power Hub serves as the primary power conversion and control unit within the Voltgo Mobile Energy Platform.

It manages energy flow between charging sources, battery storage, and AC loads through an integrated architecture.



KEY FUNCTIONS



AC Power Conversion

Provides AC power output for mobile and off-grid applications.



Battery Integration

Designed to operate with the dedicated Voltgo 51.2V 100Ah battery module.



Solar Charging Support

Supports integration with solar charging sources.



Mobile Energy Applications

Suitable for RV, van conversion, and off-grid energy systems.



Central Power Management

Acts as the core unit for energy conversion and system coordination.



Integrated Battery Operation

Seamlessly works with the dedicated Voltgo battery module for efficient energy flow.



Solar Charging Compatibility

Optimized for solar input to support renewable energy utilization.

TOUCH DISPLAY

System Monitoring & User Interface

The Touch Display provides real-time monitoring and system information for the Voltgo Mobile Energy Platform.

It delivers clear visibility of system status, power flow, and battery information in an intuitive interface.



KEY FUNCTIONS



System Monitoring
Displays system operating status and key energy information.



Power Flow Visibility
Provides visibility into input and output power conditions.

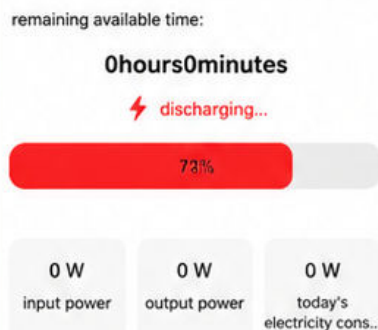
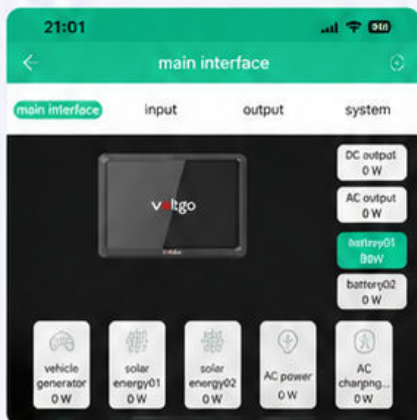


Battery Information
Displays battery status, capacity information, and operating conditions.



User Interaction
Provides a centralized interface for system monitoring and operation.

MONITORING INTERFACE PREVIEW



Monitor key system data at a glance, including battery status, power flow, and energy consumption.

- Battery Status
- Remaining Capacity
- Input Power
- Output Power
- Energy Consumption
- System Mode



Real-Time Monitoring
View operating status and system information in real time.



Battery Information
Monitor battery condition, capacity level, and operating status with clarity.



User Interface
Intuitive touch interface for easy monitoring and system control.

TECHNICAL SPECIFICATIONS

The Voltgo Mobile Energy Platform is engineered for performance, safety, and reliability in mobile and off-grid applications.



POWER HUB

Parameter	Specification
AC Input Voltage	US: 100-120V / EU: 220-240V
AC Input Current	US: 30A / EU: 16A
Battery Input Voltage	45-58V
Generator Input Voltage	12-60V
Solar Input Voltage	13-60V
Solar Charging Power	Max 1000W
AC Output	3000W Pure Sine Wave, 120V / 230V, 50/60Hz
DC Output	12V / 24V, Max 1000W

COMMUNICATION

Parameter	Specification
Communication Interface	CAN2.0 / RS485
Wireless Connectivity	WiFi (2.4G)
Bluetooth	Bluetooth 4.0

OPERATING ENVIRONMENT

Parameter	Specification
Operating Temperature	-25°C ~ 60°C
Storage Temperature	-25°C ~ 60°C



ENGINEERING SUPPORT AVAILABLE

Detailed wiring configurations, application guidance, and project-specific technical specifications are available through VisionCore Nexus engineering consultation.



Specifications are based on current engineering release and may be updated without prior notice.

TYPICAL APPLICATIONS

Typical examples of mobile energy applications supported by the Voltgo Mobile Energy Platform.



RV ENERGY SYSTEMS

Reliable onboard power for recreational vehicles and mobile living environments.



VAN CONVERSION

Compact energy solution for van conversion projects and mobile lifestyle applications.



MOBILE SERVICE VEHICLES

Mobile power platform for field maintenance, utility services, communications, and engineering operations.



REMOTE OFF-GRID APPLICATIONS

Portable energy support for remote locations, temporary facilities, and off-grid work environments.



Application images are illustrative examples intended to demonstrate potential use environments. Actual system configuration may vary depending on project requirements.



MOBILE ENERGY MADE SIMPLE

Integrated power management designed for modern mobile energy applications.



DESIGNED FOR

- ✓ RV Energy Systems
- ✓ Van Conversion
- ✓ Mobile Service Vehicles
- ✓ Remote Off-Grid Applications



KEY COMPONENTS

- ✓ Power Hub
- ✓ Intelligent PDU
- ✓ Touch Display
- ✓ 51.2V 100Ah LFP Battery



CORE CAPABILITIES

- ✓ AC Charging
- ✓ Solar Charging
- ✓ Generator Charging
- ✓ Power Distribution
- ✓ System Monitoring



BUSINESS & TECHNICAL INQUIRIES

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For detailed technical specifications, integration guidance, and project discussions, please contact VisionCore Nexus or your authorized Voltgo representative.