

ELP-12V1450Wh-G49

12V Rechargeable Li-Iron-Phosphate Battery

General description

- Standard BCI group 49 replacement for lead-acid batteries
- 2 times the energy density with respect to similar lead acid batteries
- Internal BMS and charger supporting safe and monitored usage
- LED State of Charge Indicator (SOC)
- Standard CANBus communication protocol
- Remote monitoring by Bluetooth from smartphone/tablet (optional)
- Fast charging – approximately 1 hour to full charge
- Unique charge current limiter preventing high current surges during charging.
- Serial and parallel interconnectivity with additional batteries supporting group operation
- Built-in heater for low temperature performance
- More than 3,000 cycles

Applications

Marine, telecom, special purpose vehicles, recreational vehicles, automotive, renewable energy storage

Safety

Internal BMS provides protection from:

- Over-charge and over-discharge
- Over-current during charge and discharge
- Short circuit
- Over/under temperature
- Automatic heating before charging in low temperatures
- Reverse polarity

Quality System

- ISO-9001:2015
- AS-9100D

Applicable Standards

- UN-38.3
- UL-listed (for cells)

MSDS and Disposal

- Check with manufacturer



Electrical

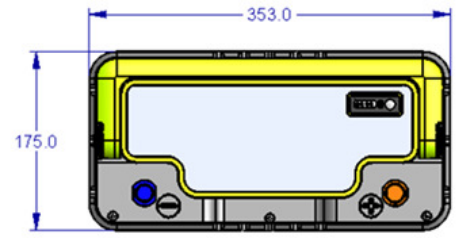
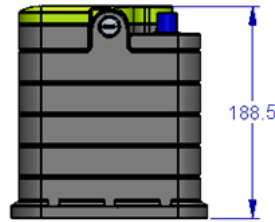
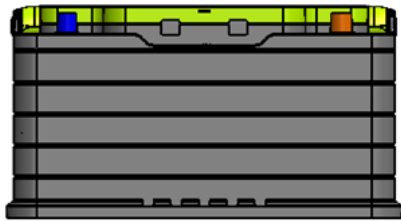
Nominal Voltage	13.2 V
Capacity	1450Wh / 110Ah@1C
Continuous power / current	2,300W / 200A
Peak Power / current (30 sec)	5,400W / 480A
CCA @ -18°C	200A
Charge current (standard / fast)	55 A / 125 A (fast charge may reduce cycle life)
Communication	CAN , Bluetooth, LED Fuel Gauge
Cycle Life (90% DoD)	>3,000

Mechanical

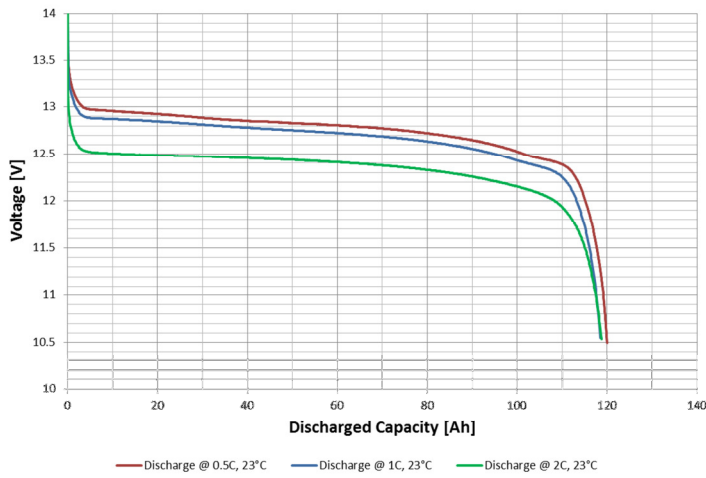
Dimensions L×W×H (mm/inch)	353×175×188.5 / 13.90×6.90×7.42
Weight	16.6 kg
Battery Housing	ABS
Color	Grey & Green
Mounting	B13 hold down edge

Environmental

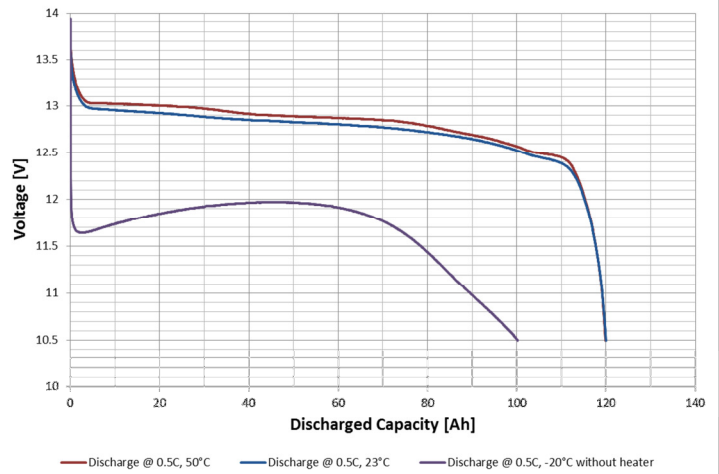
Discharge temperature	-20°C to 60°C
Storage	-40°C to 71°C (accelerated aging at temperatures > 30°C)
Ingress Protection	IP67 (without communication)
Humidity	95%
Transportation	Class 9



ELP-12V1450Wh Discharge Curves, 23°C



ELP-12V1450Wh Discharge Curves, 0.5C



ELP-12V1450Wh Charging Curves, 23°C

