# 12V U1-50

U1LiFe™ Series | 2ND Generation | Technical Data Sheet

**Certified to global safety standards**

**Fast charging** within 3 hours

**Long shelf life performance** with shutdown mode

**Automotive grade cells** from top tier manufacturers



- **Plug & play lead acid replacement**
- **UL2054** Shock & Vibration + Thermal Propagation Mitigation
- **Compatible with many off-the-shelf chargers**
- **Increased life cycles** up to 10X over sealed lead acid
- **Compatible with leading OEM medical carts**

## Electrical Specifications

| | |
|---|---|
| Cell Chemistry | LiFePO4 |
| Pack Voltage (Nom/Max) | 12.8V / 14.6V |
| Pack Energy | 627Wh (49.0Ah)* |
| Continuous Power | 256W / 20A |
| Recommended Charge CCCV | 20A / 14.4V |
| Peak Power (<30sec) | 358W (28A) |
| Cycle Life (Based on cell data @ 25°C) | 3,000 @ 80% DoD |

## Compatible Inverters

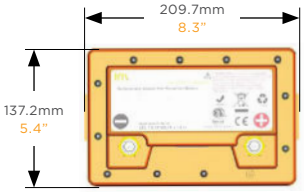
| | |
|---|---|
| Tripplite | HC150SL<br>HCINT150SL<br>HC120DC |
| PowerVar | ABCE150 |

## Operational Specifications

| | |
|---|---|
| Charge Temp | 0°C to 40°C |
| Discharge Temp | -20°C to 60°C |
| Storage Temp | -40°C to 60°C |
| Humidity (Operating) | 20% to 80% |

## Mechanical Specifications




| | |
|---|---|
| BCI Size | U1 |
| Terminal Type (ISO) | M6 |
| Terminal Torque (Nm) | 3.1 ± 0.3 Nm |
| Weight | 5.2kg (11.5lbs) |
| Installation Orientation | Horizontal / Vertical |
| Ingress Protection Rating | IP51 |
| Case Flammability Rating | Flame Retardant UL94 V-0 |

## Certifications

- UL/CSA62133-2:20
- UL2054
- IEC62133-2:2017
- RoHS
- EMC
- UN/DOT 38.3

*Usable capacity will depend on charge voltage, the depth of discharge, age, and other environmental conditions.

**Market Applications**

Medical Carts

Industrial Carts

**Request more info**

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