

# 12V U1-50

U1LiFe™ Series | Technical Data Sheet

**inVENTUS™**  
POWER



**Automotive grade cells**  
from top tier manufacturers



**Fast charging**  
within 3 hours



**Long shelf life performance**  
with shutdown mode



- **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**

## Electrical Specifications

Cell Chemistry	LiFePO4
Pack Voltage (Nom/Max)	12.8V / 14.4V
Pack Energy	676Wh (52Ah)
Specific Energy	102Wh/kg
Continuous Power	256W / 20A
Recommended Charge CCCV	20A / 14.4V
Peak Power (<30sec)	358W (28A)
Cycle Life (@ 25°C)	3,000 @ 80% DoD

## Compatible Inverters

Tripplite	HC150SL HCINT150SL 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	6.65kg (14.66lbs)
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

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**Market Applications**



Medical Carts



E-Mobility



Industrial Carts



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