## 12V U1-40

**U1LiFe™ Series | 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

<b>Electrical Specifications</b>	
Cell Chemistry	LiFePO4
Pack Voltage (Nom/Max)	12.8V / 14.4V
Pack Energy	507Wh (39Ah)*
Specific Energy	86Wh/kg
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 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		
185mm 7.3"	209.7mm 8.3"	
BCI Size	U1	
Terminal Type (ISO)	M6	
Terminal Torque (Nm)	3.1 ± 0.3 Nm	
Weight	5.87kg (12.94lbs)	
Installation Orientation	Horizontal / Vertical	
Ingress Protection Rating	IP51	
Case Flammability Rating	Flame Retardant UL94 V-0	

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

<sup>\*</sup>Usable capacity will depend on charge voltage, the depth of discharge, age, and other environmental conditions. Inventus Power reserves the right to make adjustments to this document at any time, without notice or obligation. All data in this publication is for reference use only. Models may vary from shown.

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Market Applications







