## 12V U1-45

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>	lectrical Specifications				
Cell Chemistry	LiFePO4				
Pack Voltage (Nom/Max)	12.8V / 14.4V				
Pack Energy	591Wh (46Ah)*				
Specific Energy	92Wh/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				
ı		HC150SL			
ı	Tripplite	HCINT150SL			
ı		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	6.46kg (14.24lbs)				
Installation Orientation	Horizontal / Vertical				
Ingress Protection Rating	IP51				
Case Flammability Rating	Flame Retardant UL94 V-0				

I	Ce	rtifications				
	•	UL/CSA62133-2:20 UL2054 IEC62133-2:2017	•	RoHS EMC UN/DOT 38.3		
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<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







