

# PRLC-U1R

## 12v 48Ah LINC INFI

### LiFePO4 - Bluetooth Enabled

POWERROAD LINC INFI series of lithium iron phosphate batteries are an ideal solution for replacing lead acid batteries with lighter weight, more power, and longer life. The PRLC-U1R is a 12.8V48Ah LiFePO4 battery in a size of Group U1R. It can be widely used in many deep cycle applications, and is especially perfect for medical mobile vehicles, wheelchairs, scooters, and more.



## KEY FEATURES



Special Tier-1 LFP battery cells for 48Ah capacity now and 54Ah capacity available next year under the same size.



Compatible with mainstream communication interfaces and protocols: RS485 and SMBus.



Max. 4 batteries can be assembled in series to build flexible battery systems for more applications.



Built-in Bluetooth for easily monitoring SOC, SOH and more via APP.



Embedded BMS with multiple protections for extending battery life and ensuring battery safety.



Cost saving with detachable upper cover and replaceable BMS.



Own-developed and family-style design mold with UL94: V1-0 cover for flame resistant and durability.



**MEDICAL**



**MOBILITY**

### APPLICATION

### OTHERS

- Scooters
- Data Center
- Renewable Energy
- Recreational Vehicle



SPECIFICATIONS

Model No.		PRLC-U1R
Dimensions	Length	195mm
	Width	132mm
	Height	183mm
Weight		About 5.5kg

CHARACTERISTICS

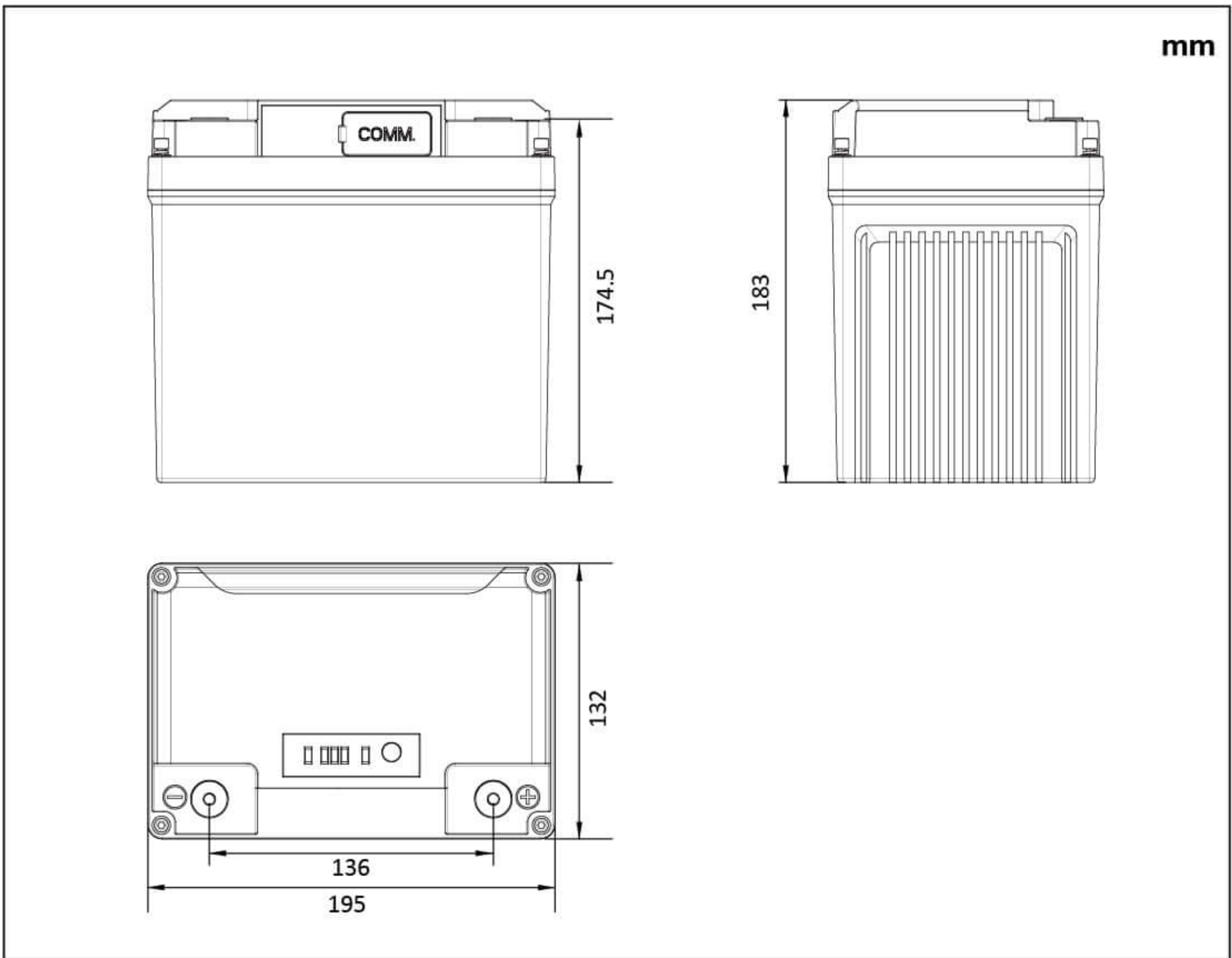
Nominal Voltage	12.8V
Nominal Capacity	48Ah
Nominal Energy	614Wh
Internal Impedance	≤100mΩ
Charge Voltage	14.4V
Discharge Cut-off Voltage	10V
Standard Charge Current	9.6A
Max. Charge Current	25A
Standard Discharge Current	9.6A
Max. Discharge Current	25A
Peak Discharge Current	80A=2S
Bluetooth	Available
Operating Temperature	Charge 0°C ~ +45°C
	Discharge -20°C ~ +55°C

Note: Maximum 4 batteries in series (total voltage 12.8V-51.2V)



PRLC-U1R

DRAWINGS



DISCHARGING GRAPH

