



Built for Demanding Environments

- Rugged IP67-rated waterproof and dust-proof design
- Internal safety valve and insulated housing protect against short circuits and environmental extremes
- Certified to UN38.3, CE, IEC62619, UL1973, and E-Mark for full transport and system compliance

Intelligent & Connected Power

- Equipped with Bluetooth, CAN, and RS485 interfaces for smart monitoring
- App connectivity for SOC checks, LED status readouts, and remote diagnostics
- Supports firmware upgrades via cloud OTA for future-proof performance

Smart Battery Management System

- Intelligent BMS manages charge/discharge protection, thermal stability, and current control
- High current handling: up to 150 A discharge and 1200A peak
- Optional low-temperature heating enables charging in environments down to -20°C

Flexible System Configuration

- Designed to support up to 16 units in parallel
- Drop-in lead-acid replacement form factor with multiple sizing options

Ranger 24/36 V Series Technical Parameters

Model	25.5V 60Ah	25.5V 100Ah	38.4V 100Ah
Nominal voltage	25.6 V	25.6 V	38.4 V
Nominal energy @0.2C	1 536 Wh	2 560 Wh	3 840 Wh
Nominal capacity@0.2C	60 Ah	100 Ah	100 Ah
Internal resistance @1kHz AC	≤30mΩ		
Allowed MAX. charge current	60 A @25°C	100 A @25°C	100 A @25°C
Allowed MAX. discharge current	80 A @25°C	120 A @25°C	120 A @25°C
Recommend charge current	30 A	50 A	50 A
Recommend discharge current	40 A	100 A	100 A
Peak/Surge current limit	200 A @3s	500 A @3s	500 A @3s
Short circuit protection	800 A @500μs	1 200 A @500μs	1 200 A @500μs
Charge voltage	28.4 V	28.4 V	42.6 V
Floating voltage	27.6 V	27.6 V	41.4 V
End of discharge	22.4 V	22.4 V	33.6 V
Communication	Bluetooth, CAN and RS485		
IP rating	IP67		
Cycle life	≥6000 cycles, @25°C, @0.2C, @80%DOD		
Weight	≈ 14 kg (30.8 lbs)	≈ 23 kg (50.7 lbs)	≈ 37.5 kg (82.7 lbs)
Dimensions(W*H*D)	308*168*211 mm (12.1*6.6*8.3 inch)	485*172*231 mm (19.0*6.7*9.0 inch)	500*265*232 mm (19.6*10.4*9.1 inch)
Parallel and series connection	Support Max. 16 in parallel		
Terminal and torque	M8 bolt 8-10N·M		
Operation altitude	< 3000 m		
Operation temperature	Charge -20~60°C (-4°F~140°F) , Discharge -20~60°C(-4°F~140°F)		
Self-discharge rate (shutdown)	≤3% Per month		
Recommended storage temperature	-10°C~40°C (14°F~104°F)		
Recommended humidity	5~85%RH		
Cetifications	Pack: UN38.3, CE, E-Mark, UL1973 Cell: UN38.3, UL9540A, IEC62619		

* The actual product may differ slightly from the pictures.

* The specifications are subject to change without prior notice.