



RC-48/100T

51.2V 100Ah Lifepo4 battery

RealCurrent The Power Company produces excellent 51.2 V 100Ah lifepo4 battery module through enhanced cycling, weight and volume improvements. It can be flexible to be higher capacity through in parallels. RealCurrent's battery management systems are combined with safe and robust lifepo4 technology to show multiple levels of safe and reliability. Cell balancing, charge and discharge controls, communication and information management functions are integrated with in all modules.



Lithium ion (Lifepo4) battery Features

- Long cycle life more than 4000 times (80% DOD)
Long cycle life more than 6000 times (50% DOD)
- Robust safety with BMS and Environmentally safety without any toxic or corrosive materials
- Guaranteed longer life with 5-year standard and 10-year extendable warranty
- Space and weight efficient with dimensions W482*L440*H177.5 mm and weight about 48.0 Kg
- Flexible combination to be higher capacity in parallels
- Widely used in indoor and outdoor base stations, such as integrated base stations, marginal stations, repeaters, macro base stations, solar base stations



Specifications of battery

Combination method	16S1P	
Rated Capacity	100.0Ah	Standard discharge after Standard Charge
Nominal Voltage	51.2V	
Discharge Cut-off Voltage	40.0V	
Charging Voltage	58.4V	
Internal Impedance	$\leq 35\text{m}\Omega$	
Standard charge	0.25c	
Standard discharge	0.25c	Charging time: Approx 5h
Maximum Continuous Charge Current	100.0A	Customized
Maximum Continuous Discharge Current	100.0A	Customized
Operation Temperature Range	Charge: 0~45 °C Discharge: -20~60 °C	
Storage Temperature Range	Less than 6 months: -20~25 °C Less than 3 months: -20~40 °C Less than 7 day: -20~60 °C	60+/- 25%R.H



Battery Management System (BMS)

The BMS will display a warning message and for sound a buzzer in the event of a warning. It will open the main relay in the event of a fault.

Protection:

- Over/under Voltage
- Over/under temperature
- Over current
- Pre-charge control
- Balance voltage consistency

Communication:

- RS485 and CAN
- USB
- LED module
- On/OFF Switch

