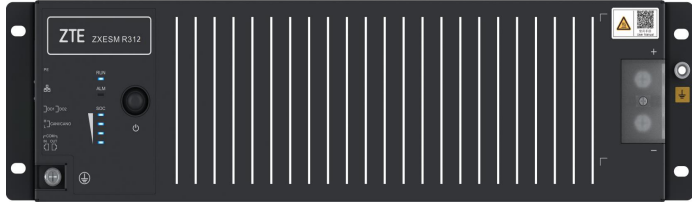




# ZXESM R312 Lithium-ion Battery



**ZXESM R312**

## Introduction

ZXESM R312 applies the advanced control management theory to its BMS system to implement real-time parameter detection, over-current/over-voltage protection, and multiple groups of parallel operation. With Lithium battery- Power -EMS structure, which is connected to the power supply system and EMS, the battery is upgraded from a dumb device to a remotely controllable management unit to ensure the safety of sites power backup and reduce routine O&M costs.

## Product Features

- 3U height
- Supporting 19" rack or cabinet installation
- Maximum charging and discharging current: 100 A
- High cycle performance
- Supporting parallel operation of up to 32 sets of batteries
- Multiple communication interfaces, supporting IP network
- iLock technology<sup>①</sup> and buzzer alarm for anti-theft

## Technical Parameters

Item	Parameters
Rated capacity	100Ah(C <sub>5</sub> ,25°C)
Nominal voltage	48V
Cathode material	LiFePO <sub>4</sub>
Charge voltage	52.5Vdc~54Vdc
Max. charge/discharge current	100A/100A
Operating temperature	charging: 0°C~55°C, discharging: -20°C~+55°C
Storage temperature	0°C~+40°C
Dimensions(W*D*H mm)	442×400×130.5(excluding mounting ear, handle, terminal)
Net weight	≤43kg
Self discharge@25°C	≤5% (90 days storage)
Methods for detecting battery theft	gyroscope, anti-theft cable, communication
Altitude	0m~4000m

① ZXESM R312 can lock the battery output automatically when battery is stolen, and should be unlocked by authorized operators. There are multiple methods for detecting battery theft, including gyroscope, anti-theft cable, communication.



Item	Parameters
Relative humidity	5%RH~95%RH
Atmospheric pressure	70kPa~106kPa
Protection grade	IP40
Design life	15 years(25°C)
Cycle life	6000 cycles @ 80%DOD, 35°C
Max. quantity of parallel connection	32
Communication protocol	Modbus, SNMP
Interface	Dry Contact*2, RS485, CAN, FE
Certification	UN38.3, CE

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