

Home Energy Storage System

Technical Parameter

12.8V 100Ah-1.28KWh

Lithium Ion Battery Pack



1.Scope of application

This product is a 1.28 kWh energy storage lithium iron phosphate battery pack (including BMS).

It consists of 4 series and 1 parallel cells. This product is suitable for DC load equipment with operating current $\leq 100A$.

1. Product description: 12.8V100Ah is an intelligent energy storage power supply product using lithium iron phosphate battery system.

The main features of the product are as follows:

- 1) High energy density;
- 2) Ultra-long cycle life and low maintenance cost;
- 3) Intelligent BMS controls charging and discharging to prevent overcharging and over-discharging;
- 4) Accurately measure SOC (remaining capacity/full charge capacity) and SOH (discharge capacity/nominal capacity).
- 5) ABS blister shell has excellent impact strength, corrosion resistance, chemical resistance and electrical insulation;
- 6) Good sealing performance, good waterproof effect, easy operation and low price.

2. Battery Specifications

Nominal Parameters	
Product	Lithium Ion Battery Pack
Rated Voltage	12.8
Rated Capacity	100Ah
Energy	1.28kWh
Cell Brand	TF LF100A
Cell Unit	3.2V100Ah
BMS Brand	DIDU
Configuration	4S1P
Charge cutoff voltage	14.4V
Discharge cutoff voltage	10.8V
Life time(25°C)	15 years
Life cycles(80% DOD, 25°C)	6000 cycles
Maximum charging continuous current	100Ah
Maximum discharge continuous current	100Ah
Charging efficiency	$\geq 98\%$
Electricity charged in the shipped product	30%-50% SOC
Operating temperature	Charging: 0~55°C Discharge: -10~55°C
Storage temperature	- 20~60°C
Working humidity	10~85%
Storage humidity	10~85%
Dimensions (L x W x H)	About 260+-mm(L)*167+-mm(W)*210+-mm(H)
Package size(L x W x H)	About 310+-mm(L)*225+-mm(W)*270+-mm(H)
Weight	About 11kgs

Modules Connection	Maximum 4 in Parallel and 4 in Series
Ingress Protection	IP 21
Battery packaging accessories	
Desiccant (5g) 2Bag; User Manual 1Set;	