

Home Energy Storage System

Technical Parameter

DDBGSG51230

51.2V 230Ah-11.77kWh

Lithium Battery Pack



1.Scope of application

This product is a 11.77kWh energy storage lithium iron phosphate battery pack (including BMS).

It consists of 16 series and 1 parallel cells. This product is suitable for DC load equipment with operating current $\leq 100A$.

1. Product description: 51.2V230Ah 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 costs.
- 3) Equipped with RS485/RS232/CAN interface, which can realize data transmission and parallel networking.
- 4) Intelligent BMS system, equipped with host computer software to realize remote monitoring, alarm and shutdown functions.
- 5) Accurately measure SOC (remaining capacity/full charge capacity) and SOH (discharge capacity/nominal capacity).

2. Battery Specifications

Nominal Parameters	
Product name	Lithium Battery Pack
Model	DDBGSG51230
Installation Mode	Wall Mounted
Rated Voltage	51.2V
Rated Capacity	230Ah
Energy	11.78kWh
Cell Unit	3.2V230Ah
BMS Brand	DAREN
BMS Communication	RS485, RS232, CAN
Configuration	16S1P
Charge cutoff voltage	57.6V
Discharge cutoff voltage	43.2V
Life time(25°C)	15 years
Life cycles(80% DOD, 25°C)	6000 cycles
Maximum charging continuous current	200A
Maximum discharge continuous current	200A
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 550+ -mm(L)*450+ -mm(W)*215+ -mm(H) Includes hanging 12mm (D)
Package size(L x W x H)	About 645+ -mm(L)*545+ -mm(W)*315+ -mm(H)
Weight	About 86kgs
Modules Connection	Maximum 16 in Parallel
Ingress Protection	IP 21
Battery packaging accessories	
Desiccant (5g) 2 Bag; User Manual 1 Set; Positive and negative power cables 1 Set; 1 meter with RJ45 connector 1 Pc; Mounting frame screw (M8*60mm) 4 Pc;	