

# Energy Storage System

Technical Parameter

**DDBGSG24120**

**24V 120Ah-2.88kWh**

Lithium Ion Battery Pack



## 1.Scope of application

This product is a 2.88kWh energy storage Lithium Ion Battery Pack (including BMS).

It consists of 7 series and 1 parallel cells. This product is suitable for DC load equipment with operating current  $\leq 100A$ .

1. Product description: 24V120Ah is an intelligent energy storage power supply product using Lithium Ion 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	Lithium Ion Battery Pack
Model	DDBGSG24120
Installation Mode	Wall Mounted
Rated Voltage	24V
Rated Capacity	120Ah
Energy	2.88kWh
Cell Brand	BYD-120AH
Cell type	NCM
Cell Unit	3.7V120Ah
BMS Brand	PACE
BMS Communication	RS485, RS232, CAN
Configuration	7S1P
Charge cutoff voltage	29.2V
Discharge cutoff voltage	20.3V
Life time(25°C)	15 years
Life cycles(80% DOD, 25°C)	6000 cycles
Maximum charging continuous current	100A
Maximum discharge continuous current	100A
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 375+-mm(L)*371+-mm(W)*147+-mm(H)
Carton packaging size (L x W x H)	About 505+-mm(L)*465+-mm(W)*275+-mm(H)
Weight	About 24kgs
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;	