

B4850 Battery Module, 2.4KWh

Application

 The Dyness battery B4850 module is widely used in energy storage and electrical products.
 Household energy storage systems; Centralized power station energy storage system.

Compact Design

Practical pull ear design improves operation convenience

Safe

- Safe lithium iron phosphate battery cell
- Compact size ultralight module

Intelligent Management

- Dyness is equipped with intelligent BMS for each battery pack to manage modules effectively.
- Compared with the traditional module, B4850 can meet the capacity storage and greatly enhance the cycle life.

Intelligent

 Each module is equipped with an independent BMS system



Product Code: FSBLD2.4

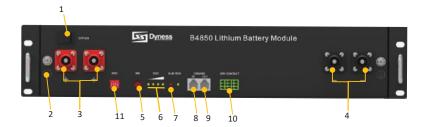
Specifications

Basic Parameters	B4850	
Type:	LifePO4	
Nominal voltage (V):	48V	
Nominal capacity (Ah):	50	
Nominal capacity (Wh):	2400	
Usable capacity (Wh):	2160	
Dimension (mm):	480 x 360 x 90	
Weight (Kg):	22	
Discharge end - off voltage (V):	40,5	
Charge cut - off voltage (V):	54,75	
Charge float voltage (V):	54	
Charge/discharge current:	25 (Recommended)	
	40 (Max with coms)	
	50 (Max without coms)	
Communication port:	RS485/CAN/Dry contact	
Single string quantity		
(pcs in parallel):	40	
Charge temperature/0C:	0 - 50	
Shelf temperature/0C:	-20 - 50	
Protection level:	IP20	
Altitude (m):	<2000	
Humidity:	5% - 85%	
Cycle life:	6000	
Warranty:	10 Years / Cycle Life	



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Item	Name	Definition
_1	Power switch	OFF/ON, must be in the "ON" state when in use
2	Ground connection point	Shell ground connection
3	Positive socket	Battery output positive or parallel positive line
4	Negative socket	Battery output negative or parallel negative line
5	SW (battery wake/sleep switch)	When the "OFF/ON" switch button is in the ON state, press and hold this button for 3 seconds to put the battery into the power-on or sleep state.
6	SOC	The number of green lights on shows the remaining battery power. See Table 2-3 for details.
7	ALM	Red light, the alarm is always on. After the condition of trigger protection is released, it can be automatically restored.
8	RUN	Green light, flashing during standby, always on when charging, flashing when discharging
9	CAN/485	Communication cascade port, support CAN/RS485 communication (factory default CAN communication)
10	DRY CONTACT	
11	ADD	DIP switch



Bracket Installation

1. As shown in the figure, remove the hanging ear screws on both sides of the B4850 with a screwdriver and remove the mounting ears.



Figure3-4

2. Place the two simple brackets oppositely, and get stuck with the B4850 that removes the

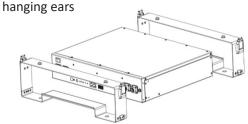
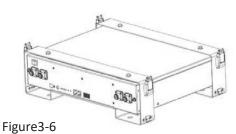


Figure 3-5

3. After the completion of step 2, the effect is shown in Figure 3-6.



4. Stack the units completed in step 3 and fasten the buckles of the upper and lower simple brackets.
The effect is shown in Figure 3-7



Figure3-7



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Overview

The B4850 lithium iron phosphate battery energy storage system can provide energy storage solutions for photovoltaic power generation users through series and parallel combination.

Features and Benefits

- Anode materials are lithium iron phosphate (LiFePO4), safer with longer life span.
- Carries battery management system with better performance, possesses protection function like over-discharge, over-charge, over-current, abnormal temperature.
- Self-management on charging and discharging, Single core balancing function.
- Intelligent design configures integrated inspection module, with 3 remote functions (remote-measuring, remote-communicating and remote-controlling).
 Flexible configurations allow parallel of multi battery for longer standby time.
- Self-ventilation with lower system noise.
- Less battery self-discharge, then recharging period can be up to 10 months during the storage.
- No memory effect so that battery can be charged and discharged shallowly.
- With wide range of temperature for working environment, -20oC ~ +55 oC, circulation span and discharging performance are well under high temperature.
- Less volume, lighter weight.

Voltage: U>60V

Current: I = Inverter power

45V

It is better to add a circuit breaker between the inverter and the battery system. The selection of the circuit breaker requires:

The circuit breaker is installed between the battery module and the inverter, as shown in Figure 3-8:

