

# FULL INTELLIGENT FUNCTION



01: NTC

(Standard Configuration)

02: Power board

(customization option)

03: BT

(customization option)

(\*For customization, please contact customer service in advance. )

## Lifepo4 8S (Smart BMS)

Description	Description	Specification													Unit
		30A	40A	50A	60A	80A	100A	120A	150A	200A	250A	300A	400A	500A	
Discharge	Continue discharge current	30	40	50	60	80	100	120	150	200	250	300	400	500	A
	Over discharge current detect voltage	45	60	75	90	120	150	180	225	300	375	450	600	750	A
Inner Resistance	Main Circuit Conduct Inner resistance	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	mΩ
Charge	Charge voltage	LifePO4: S*3.65 Li-ion: S*4.2 LTO: S*2.8													V
	Charge current	15	20	25	30	40	50	60	75	100	125	150	200	250	A
	Over Charge current detect delay	45	60	75	90	120	150	180	225	300	375	450	600	750	A
Over charge protection	Over charge detect voltage	3.75±0.05													V
	over charge protection delay	1													S
	over charge release voltage	3.55±0.05													V
Balance	Balance detect Voltage	3.2													V
	Balance release voltage	3.2													V

	Balance current	30±5													mA
Over discharge protection	Over discharge detect	2.2±0.05													V
	Over discharge detect delay	1													S
	Over discharge release voltage	2.3±0.05													V
Over Charge current protection	Over discharge current detect delay	1													S
	Over discharge current protection	Off load													
Short Circuit protection	Short Circuit protection condition	Short circuit of external load													
	Short circuit detect delay	200-500													uS
	Short circuit protection release	Off load													
Temp Protect	Temperature protection degrees	Charge: -40~65, Discharge: -40~70													°C
Self Consumption	Working current	35													mA
	Sleeping current(over-discharge)	800													uA
Working Temp	Temp range	-20~60													°C
Storing Temp	Temp range	-40~85													°C

## DALY

Dongguan Daly Electronics Co., Ltd is located in Dongguan, China. It is a high-tech company specializing in R&D, production and sales of lithium battery protection board (BMS). "Only safety, not to be" is the quality policy that Daly always implements. The company has an internationally standardized quality management system. Daly has a high-quality R&D, production and management team with rich professional theoretical knowledge, product design and production management experience. The company also has several senior engineers and senior experts who specialize in the battery management system (BMS) industry for more than ten years. They are dedicated to product research and development, and have participated in the preparation and preparation of lithium battery technology series.

### MODEL SUMMARY

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Â	300A	400A	500A
Max Discharge CurrentÂ	300A	400A	500A
Cutoff Current	1000Â±200A	1200Â±200A	1500Â±200A
Max Charge Current	150A	200A	225A

Daly Smart Bluetooth BMS 8S 24V with Common Port and Balance Function.

Professional high current wiring design &workmanship, thus can withstand the shock of high current high.

The appearance is sealed by injection molding process to improve moisture-proof and oxidation-proof components and prolong the service life of the products.Dust proof, shockproof, anti-squeezing and other protective functions.There is a complete over-charge, over-discharge, over-current, short-circuit, balance function.Integrated Design is adopted to integrate collection, management and other functions into one.

## SPECIFICATIONS (VERIFIED )

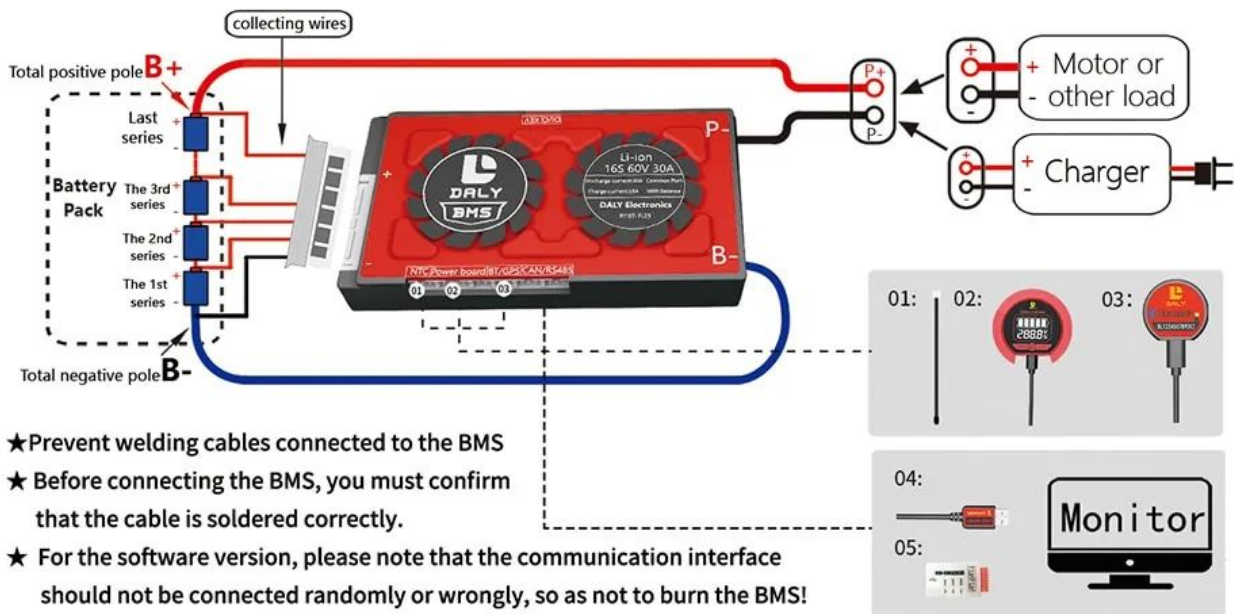
Manufacturer:	Daly
Battery Type Supported:	LiFePO4
Series Number:	8S
Charging Voltage:	29.2V
Inner Resistance:	$\leq 20\text{m}\Omega$
Charge/Discharge Port:	Common
Balance Detect Voltage:	3.5V
Balance Current:	30mA
Balance Release Voltage:	3.3V
Over Charge Detect Voltage:	$3.75\text{V}\pm 0.05\text{V}$
Over Charge Release Voltage:	$3.55\text{V}\pm 0.5\text{V}$
Over Discharge Detect Voltage:	$2.2\text{V}\pm 0.1\text{V}$
Over Discharge Release Voltage:	$2.7\text{V}\pm 0.1\text{V}$
Over Current Protection:	Yes
Short Circuit Protection:	Yes
Work Temperature:	-20~70°C
Communication:	Bluetooth APP
Other Function:	Cooling Fan

# DALY BMS WIRE DIAGRAM

You will know more with picture

## Daly BMS wire diagram for Schematic diagram

(16S 60A BMS As an example)



## Precautions for smart BMS:

### 1. The connection sequence of the smart BMS

The wiring sequence of the cable is the same as the hardware board. After confirming that the cable is soldered correctly, and the accessories that come with the product (such as: temperature control standard/power board option/Bluetooth option/GPS option/display option/custom communication Interface optional)

Install on the BMS, and then plug the cable into the BMS socket; the blue B-wire on the BMS is connected to the total negative electrode of the battery, and the black P-wire is connected to the negative electrode of the charge and discharge.

### 2. The BMS needs to be activated for the first use

Method ①: Activate the Power display panel, there is an activation button on the Power display panel.

Method ②: Charge activation.

### Three, parameter modification

The number of strings of the BMS and the BMS parameters (Li-ion BMS, LiFePO4 BMS, LTO BMS) have default values when they leave the factory, but the capacity of the battery pack needs to be set according to the actual capacity AH of the battery pack. If the capacity AH is not correct Set, the percentage of remaining power will be inaccurate. Other protection parameters can also be set according to the customer's needs (It is not recommended to modify the parameters casually).

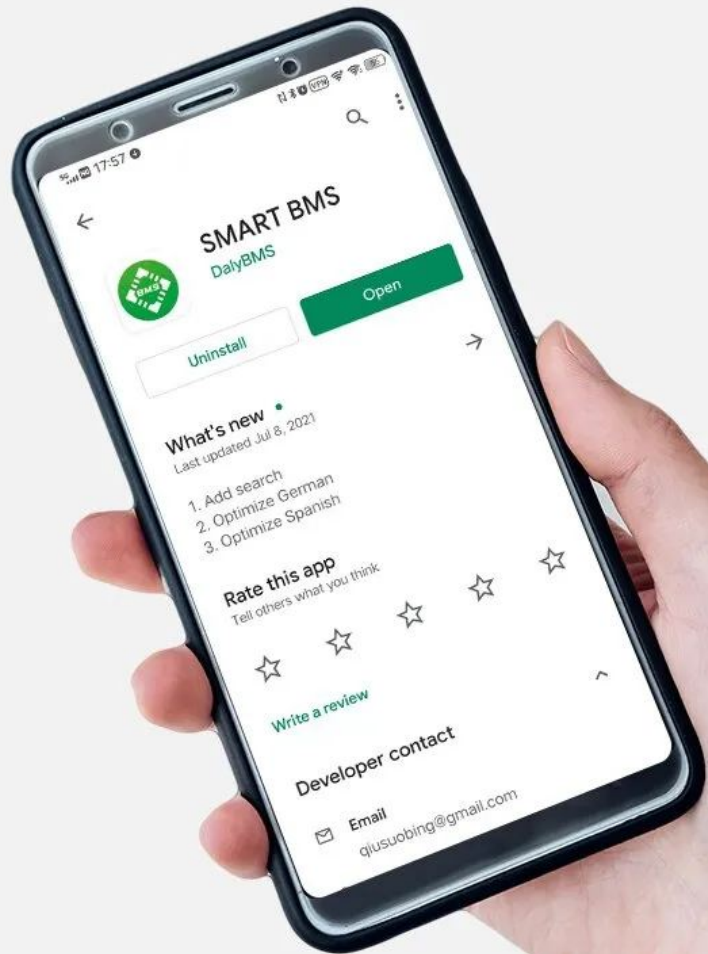
**Note: The wiring method of the flat cable refers to the wiring diagram of the hardware BMS on the back. The smart BMS APP changes the parameters. Factory password: 123456**

# INSTALL APP ON YOUR MOBILE QUICKLY CONNECT WITH BLUETOOTH

Search “SAMRT BMS” on your application store and install the APP connect with bluetooth, then you can check battery pack data.



Download the specified bluetooth APP, connect bluetooth module with SMART BMS on right interface (make sure all ports connection are right or will cause damage to the BMS), open the bluetooth APP and find the related serial number then you can check all data.



\* For Android system, please turn on positioning function and search for bluetooth, no need for ISO system,

# “SMALL CHIP MAKES A BIG DIFFERENCE”

Independent R&D program are more controllable by using imported microcomputer (MCU) chip



# REAL-TIME DATA MONITORING

Query the battery info visually by bluetooth connecting, easily manage the battery pack and suggest safe environmental conditions.

SOC

Current

Voltage

Temperature

Alarm

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