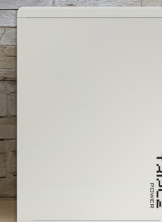
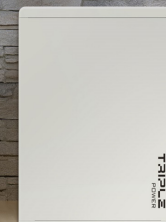
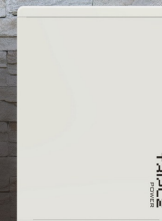
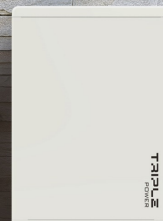
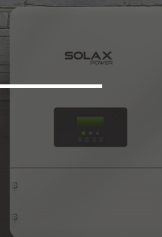


Solax BMS-Parallel Box

Phrasios

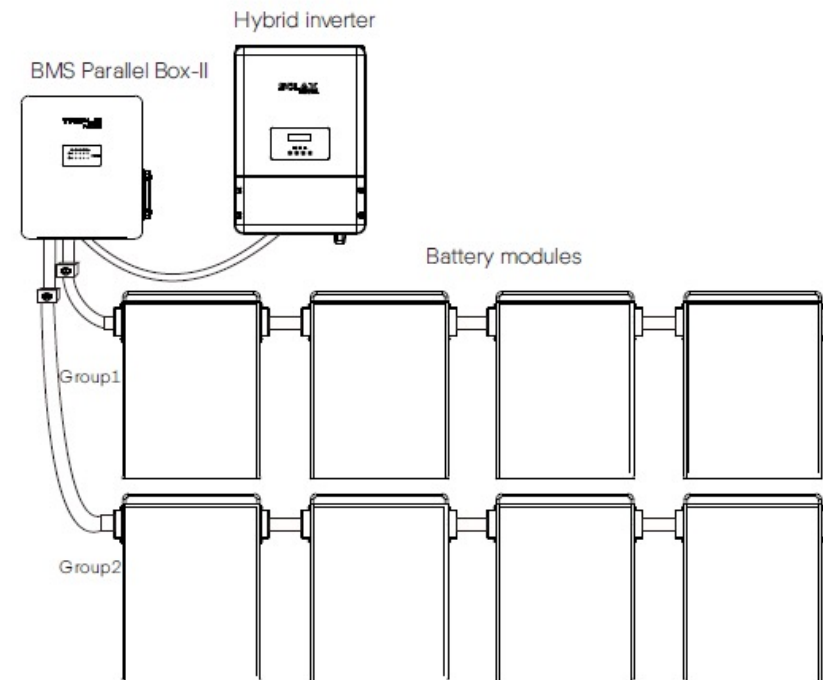


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01

Model Introduction



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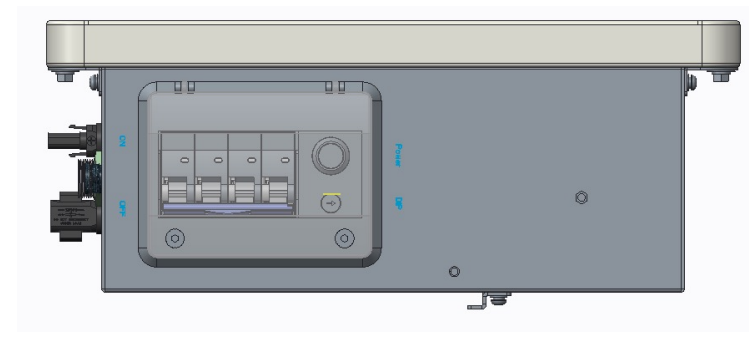
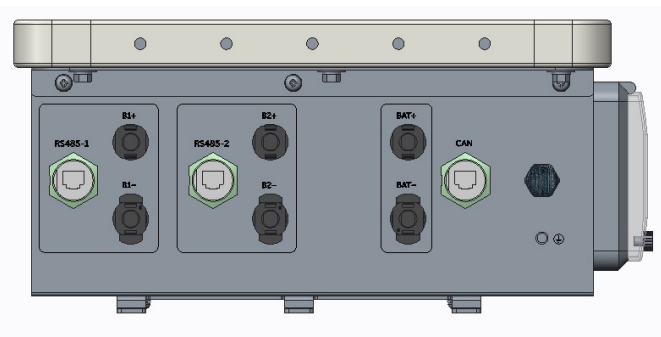
02

Model Introduction-BMS

BMS Parallel Box-II

System Information(BMS Parallel Box-II)

Operating Voltage	:	70V-550 V
Max. Current	:	35 A
Weight	:	5.2kg
Dimensions	:	368mm * 334mm * 144mm
Ingress Protection	:	IP55
Operating Temperature	:	0C°-55C°
Cooling Type	:	natural cooling



03

Products Comparison

Traditional BMS

- (1) The upper limit of capacity is 18 to 25.2kW;
- (2) The BMS must be placed at the top of the battery packs;
- (3) The BMS cannot be installed on the wall independently;
- (4) The BMS is designed consistently with the battery style.
- (5) No N+1 backup protection

BMS Parallel Box-II

- (1) The capacity of the system is expended to 46.4kW;
- (2) The BMS doesn't need to be placed on the battery packs anymore;
- (3) The BMS can be hung on the wall independently;
- (4) The BMS is designed consistently with the inverter style.
- (5) N+1 backup protection.

04

Critical Parameters

Model	BMS Parallel Box- II
Dimension(W*H*D)[mm]	368*334*144
Dimension of Package(W*H*D)[mm]	440*397*257
Net weight(kg)	5.2
Input/Output voltage range[V]	70~550
Max. charge/discharge current[A]	35
Environment	Outdoors
Standard power[kW]	11.6
Maximum power[kW]	14
Altitude[m]	≤2000
Pollution degree	PD 3
Noise level	<30dB
Overvoltage category(OVC)	II
Protective class	I
Operating temperature(℃)	0~55
Ingress protection	IP55

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ENVIRONMENT REQUIREMENT

Operating charge/discharge temperature range [°C]
Full-load charge/discharge temperature range [°C]
Storage temperature [°C]
Humidity [%]
Altitude [m]
Protection

0 ~ 55
5 ~ 48
-20 ~ +55 (3 months)
0 to 40 (1 year)
0 to 100 (condensing)
≤ 2000
IP55

COMMUNICATION

System to inverter
Battery to battery/BMS
Master control LED indicator working mode
Master control capacity indicator
Battery module LED
Switch on/off

CAN2.0/RS485
RS485
3LED
2*4LED (25%, 50%, 75%, 100%)
2 LED
Button*1+breaker*1

CERTIFICATION

Safety
EMC
Transportation regulation compliance

IEC 62477-1, IEC 61439-1, IEC 61439-2
IEC 61000-6-1/2/3/4
UN38.3

GENERAL

Dimensions(LxWxH) [mm]
Weight [kg]
Expected life [years]

368*310*140
5.2
5

NOMINAL CHARACTER (Battery Pack)

Nominal voltage [V]
Operating voltage [V]
Total energy [kWh]
Standard power [kW]
Max. power [kW]
Pollution Degree
Overvoltage Category(OVC)
Protective Class
Recommend charge/discharge current [A]
Max. charge/discharge current [A]
Cycle life [90% DOD]

T-BAT S 5.0	T-BAT S 11.5	T-BAT S 17.3	T-BAT S 23.0	T-BAT P 5.0	T-BAT P 11.5	T-BAT P 17.3	T-BAT P 23.0
115.2	230.4	345.6	460.8	115.2	230.4	345.6	460.8
100-131	200-262	300-393	400-524	100-131	200-262	300-393	400-524
5.8	11.5	17.3	23	11.5	23	34.6	46.1
2.9	5.8	8.7	11.6	2.9	5.8	8.7	11.6
3.5	7	10.5	14	3.5	7	10.5	14
PD3							
II							
I							
25							
35							
6000 Cycles							

*Can be modified without notice.(V2)

06

Selling Points

(1) The battery capacity can be doubled

The conventional battery system is limited by the system voltage and the volume of a single cell, with a set of 4 cells, and the capacity is between 12 and 25KW. The main control is a single bus and cannot be expanded in parallel;

The BMS-Parallel Box is designed with dual-bus dual-circuit power supply, which can double the number of existing battery cells. For example, the capacity of T58*4 (23KW) can be expanded to T58*8 (46KW);

(2) With dual-module backup capability

The BMS-Parallel Box has dual bus bars inside, and the control board has dual power supply design, which can be reliably separated when one of the battery systems fails without affecting the normal operation of the other group, which can effectively protect the important load. Power supply safety;

(3) Extend battery life

The two groups of battery modules in the parallel main control can be used alternately, which can greatly reduce the cycle rate of a single battery and extend the use time of the battery system;

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(4) It is convenient for customers to expand and install

The BMS-Parallel Box can be mounted on the wall, which can reduce the disassembly and installation of the originally installed battery system when the user expands the capacity.

(5) Support mixed use of new and old modules

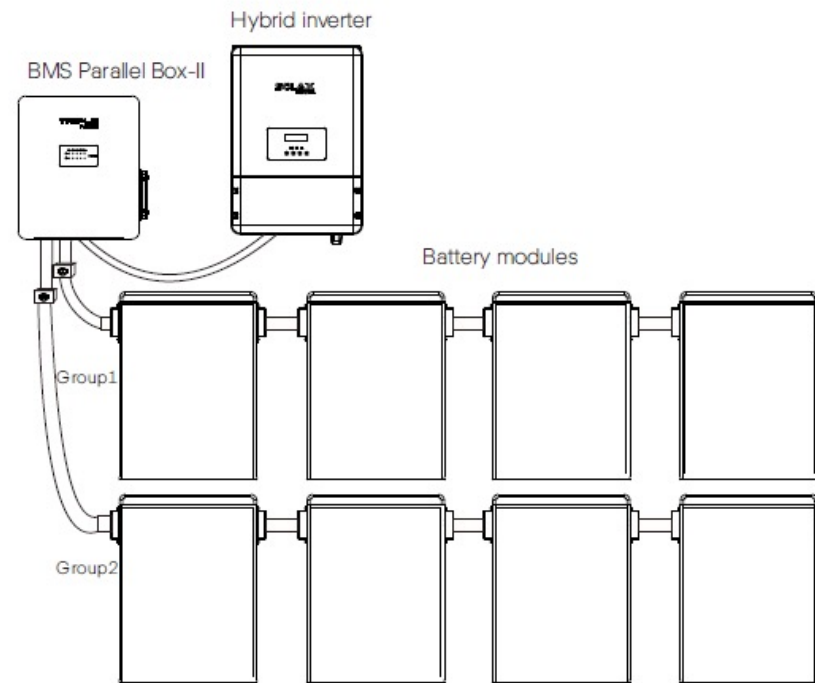
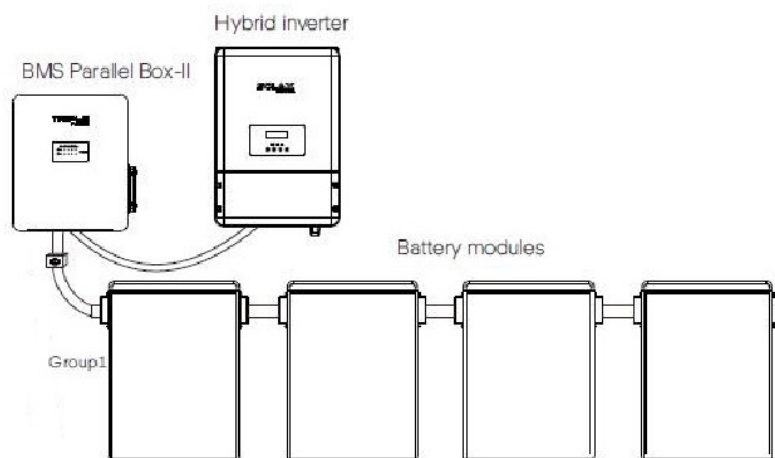
Ensure that the new and old modules are connected in series and then installed and used in the parallel box. The system can automatically identify the new and old battery packs and enable them to be charged and discharged independently.

(6) More convenient maintenance

The battery can be upgraded remotely, remotely monitor data and real-time alarm, quickly discover and maintain products; connect to the inverter, support local U disk upgrade.

07

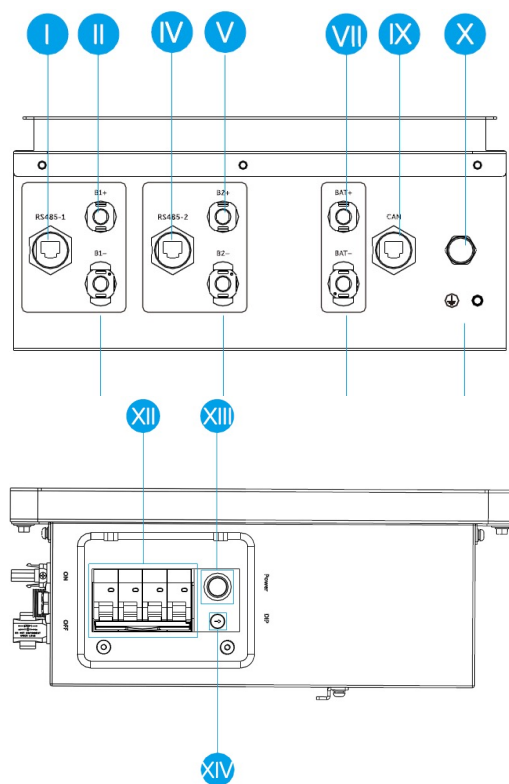
Solutions



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08 Terminals Illustration



Object	Mark	Description
I	RS485-1	Battery module communication of group 1
II	B1+	Connector B1+ of Box to + of battery module of group 1
III	B1-	Connector B1- of Box to - of battery module of group 1
IV	RS485-2	Battery module communication of group 2
V	B2+	Connector B2+ of Box to + of battery module of group 2
VI	B2-	Connector B2- of Box to - of battery module of group 2
VII	BAT+	Connector BAT+ of Box to BAT+ of inverter
VIII	BAT-	Connector BAT- of Box to BAT- of inverter
IX	CAN	Connector CAN of Box to CAN of inverter
X	/	Air Valve
XI	⊕	GND
XII	ON/OFF	Circuit Breaker
XIII	POWER	Power Button
XIV	DIP	DIP Switch



THANK YOU

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