Accessories



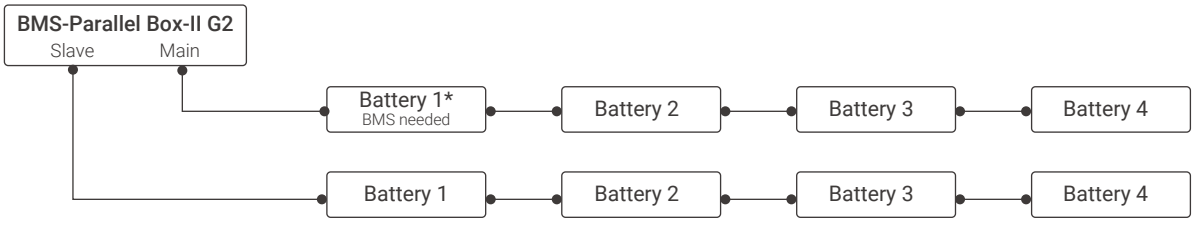
BMS-Parallel Box-II G2

Reliable Performance

- Easily expand Capacity
- Extend battery lifespan

Flexible Adaptability

- Support two-column parallel connection
- Support T-BAT-SYS-HV-3.0, T-BAT-SYS-HV-5.8



Notes:
1. Battery 1 & 2 & 3 & 4 may refer to HV11550 or HV10230.
2. Battery 1 & 2 & 3 & 4 models are required to be the same
3. As for Battery 1*, a BMS is necessory, that is, T-BAT H 5.8 for T58, MC0600 + HV10230 for T30

BMS-PARALLEL BOX-II G2

ENVIRONMENT REQUIREMENT				
Input / Output voltage range	70 ~ 550 V			
Standard power	11.5 kW			
Maximum power	16.1 kW			
Operating charge / discharge temperature range①	T-BAT-H 3.0: -30 ~ 55°C (with heating function) -10 ~ 55°C (no heating function) T-BAT H 5.8: 0 ~ 55 °C (no heating function)			
Storage temperature②	-30 ~ 80°C			
Relative humidity	5 ~ 95% (non-condensing)			
Altitude	3000 m			
Protection	IP65			
COMMUNICATION				
System to inverter	CAN + RS485			
Battery to battery / BMS	T30: CAN / T58: RS485			
Master control LED indicator working mode	1 LED			
Master control capacity indicator	2 x 4 LED (25%, 50%, 75%, 100%)			
Battery module LED	2 LED			
Switch on / off	Button x 1 + breaker x 1			
CERTIFICATION				
Safety	IEC / EN 62477-1, IEC / EN 61439-1, IEC / EN 61439-2			
EMC	EN 61000-6-1 / 2 / 3 /4			
GENERAL				
Dimensions (W x H x D)	368 x 334 x 153.5 mm			
Weight	8.7 kg			
Expected life	5 years			
NOMINAL CHARACTER (BATTERY SYSTEM)				
Overvoltage category (OVC)	II			
Protective class	I			
Recommend charge / discharge current	25 A			
Max. charge / discharge current	35 A			
SYSTEM ONE (T58 PACK)				
	TP 5.8 G2	**TP 5.8 G2**	**TP 5.8 G2**	**TP 5.8 G2**
Nominal voltage	115.2 V	230.4 V	345.6 V	460.8 V
Operating voltage	100 ~ 131 V	200 ~ 262 V	300 ~ 393 V	400 ~ 524 V
Total capacity	11.5 kWh	23 kWh	34.6 kWh	46.1 kWh
Usable capacity③	10.3 kWh	20.7 kWh	31.1 kWh	41.4 kWh
Nominal power	2.8 kW	5.7 kW	8.6 kW	11.5 kW
Max. power④	4.0 kW	8.0 kW	12.0 kW	16.1 kW
SYSTEM TWO (T30 PACK)				
	TP 3.0 G2	**TP 6.0 G2**	**TP 9.0 G2**	**TP 12.0 G2**
Nominal voltage	102.4 V	204.8 V	307.2 V	409.6 V
Operating voltage	90 ~ 116 V	180 ~ 232 V	270 ~ 348 V	360 ~ 464 V
Total capacity	6.1 kWh	12.3 kWh	18.4 kWh	24.6 kWh
Usable capacity③	5.5 kWh	11.0 kWh	16.5 kWh	22.1 kWh
Nominal power	2.5 kW	5.1 kW	7.6 kW	10.2 kW
Max. power④	3.0 kW	6.1 kW	9.2 kW	12.2 kW

① BMS parallel box G2 with different batteries has different system operating temperature
② This is the storage temperature of BMS parallel box G2, please refer to the battery storage problem for each battery
③ 90% DOD; System usable energy may vary with inverter different setting
④ Test conditions: 100% DOD, 0.2C charge & discharge @+25°C

4.4 Installation

4.4.1 Check for Transport Damage

Ensure the box is intact during and after transportation. If there are visible damages such as cracks, contact your supplier immediately.

4.4.2 Unpacking

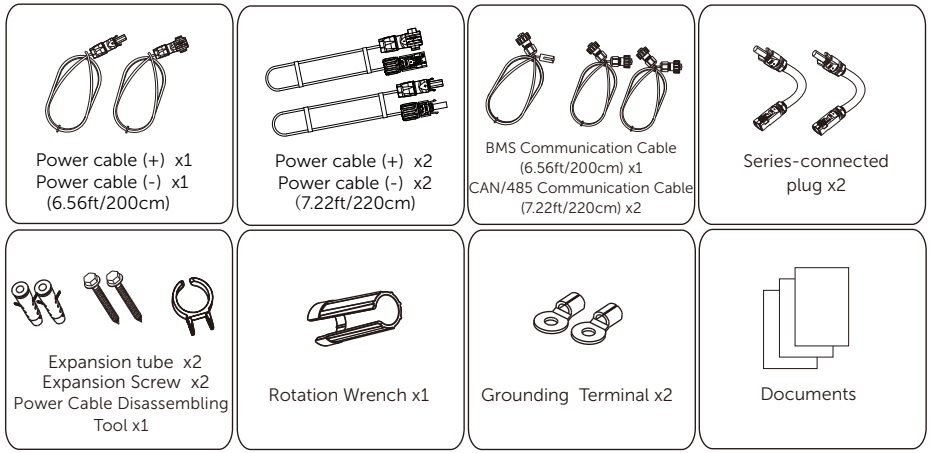
Unpack the box package by removing the packing tape. Ensure the box modules and relevant items are complete. See the package items on section 4.4.3 and check the packing list carefully. If there is any items missing, please contact our company or your distributor directly.

CAUTION!
According to regional regulations, it may require several people to move the equipment.

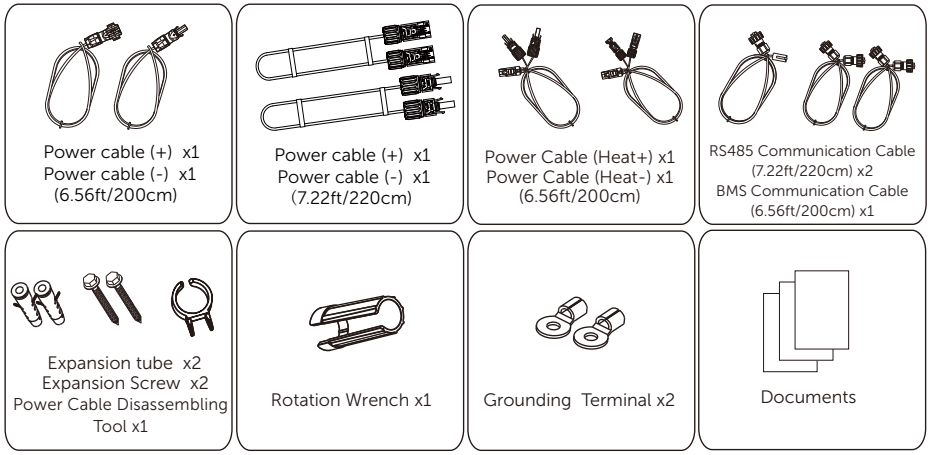
WARNING!
Please follow the installation steps strictly. Our company will not be responsible for any injuries or loss incurred by incorrect assembly and operation.

4.4.3 Accessories

①For use with T-BAT-SYS-HV-5.8



② For use with T-BAT-SYS-HV-3.0

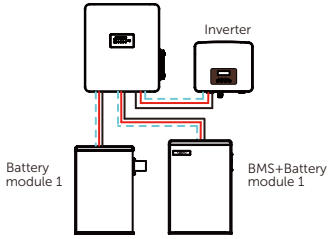


4.5 Overall Installation

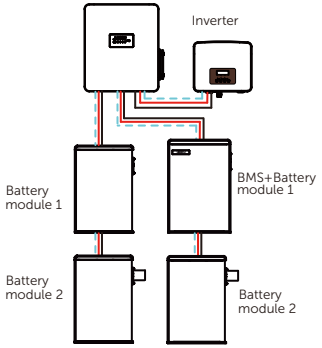
Depending on the connection with different battery systems, there are two parallel options, with details as follows:

① Connect with T-BAT-SYS-HV-5.8

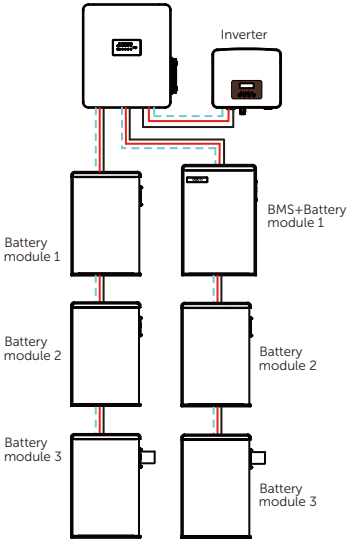
Connect with a T-BAT H 5.8 (BMS) and a HV11550 battery module:



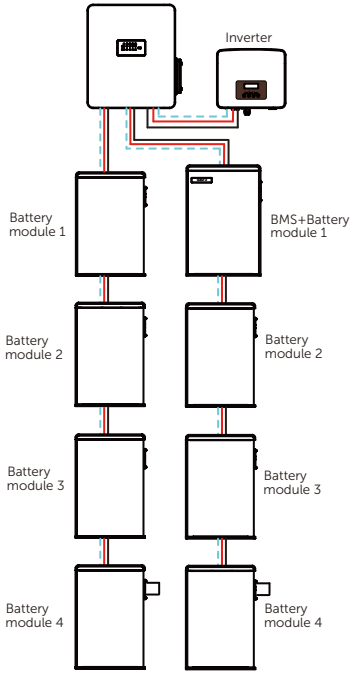
Connect with a T-BAT H 5.8 (BMS) and 3 HV11550 battery modules:



Connect with a T-BAT H 5.8 (BMS) and 5 HV11550 battery modules:

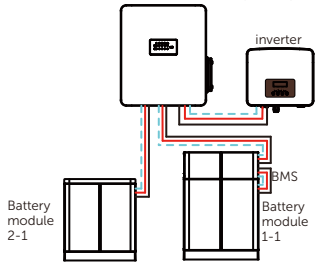


Connect with a T-BAT H 5.8 (BMS) and 7 HV11550 battery modules:

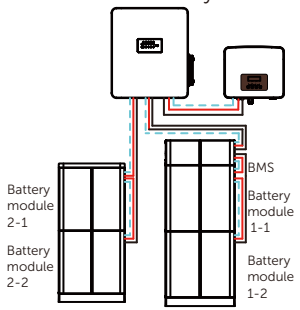


② Connect with T-BAT-SYS-HV-3.0

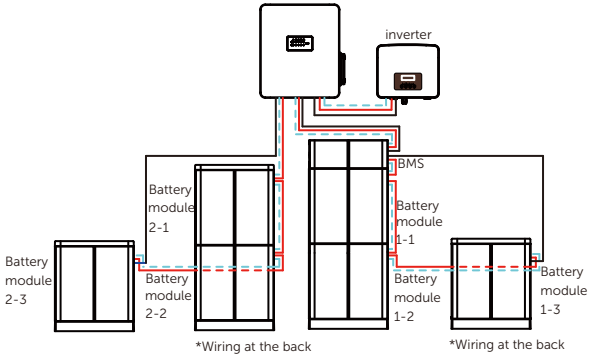
Connect with a MC0600 (BMS)



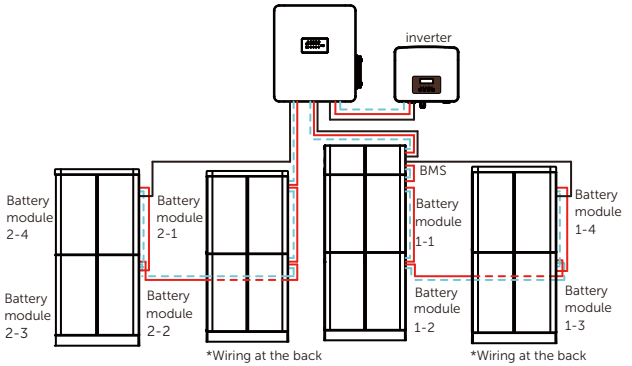
Connect with a MC0600 (BMS) and 4 HV10230 battery modules:



Connect with a MC0600 (BMS) and 6 HV10230 battery modules:



Connect with a MC0600 (BMS) and 8 HV10230 battery modules:



⚠ CAUTION!

It is supported to only connect the slave battery modules.

It is not supported to only connect the master battery modules.

The number of modules connected at the master side and the slave side should be consistent. At most four modules can be connected at one side.