

SOLAX



T-BAT-SYS-HV-5.8

Installation Manual

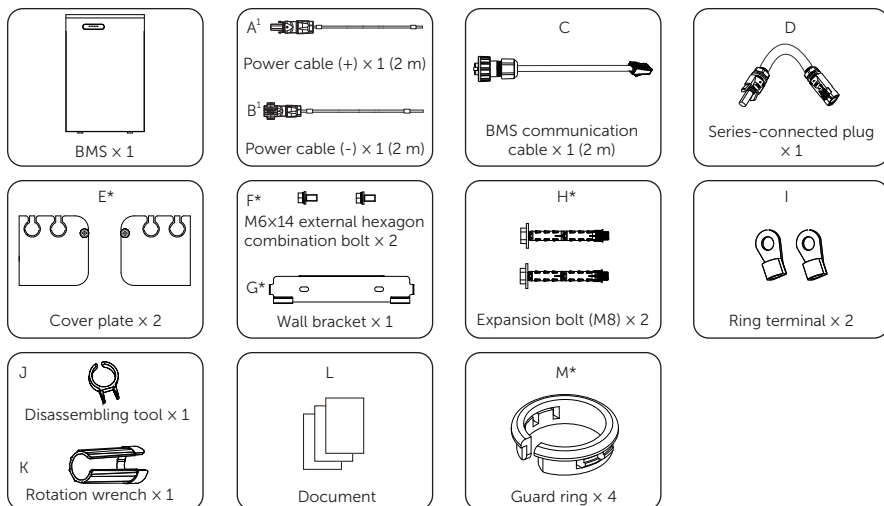
Version 5.0

www.solaxpower.com

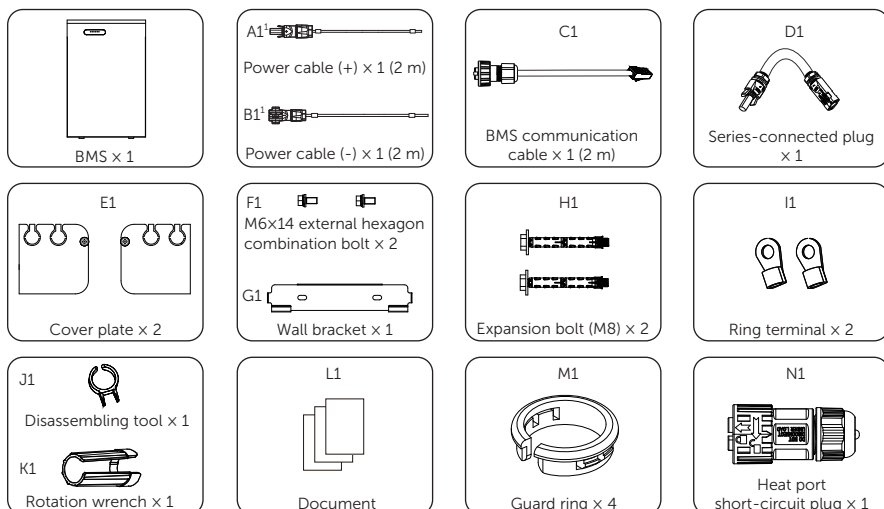


Packing List / Packliste / Liste du matériel livré / Lista de piezas / Lista da embalagem / Paklijst / Contenuto della confezione / Zawartość opakowania / Seznam balení / Packlista / Listă de ambalare / Опаковъчен лист / Pakkeliste / Λίστα συσκευασίας / Pakkeleht / Pakkausluettelo / Popis pakiranja / Csomaglista / Pakuotės turinys / Iepakoјuma saraksts / Zoznam položiek balenia / Seznam pakiranja / Kutu Listesi / Lista de Embalagem / قائمة التجهيز

BMS (T-BAT H 5.8 V3)

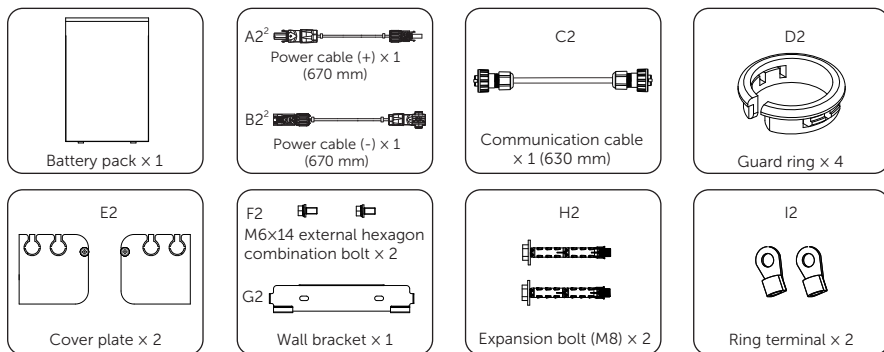


BMS (T-BAT H 5.8H V3)

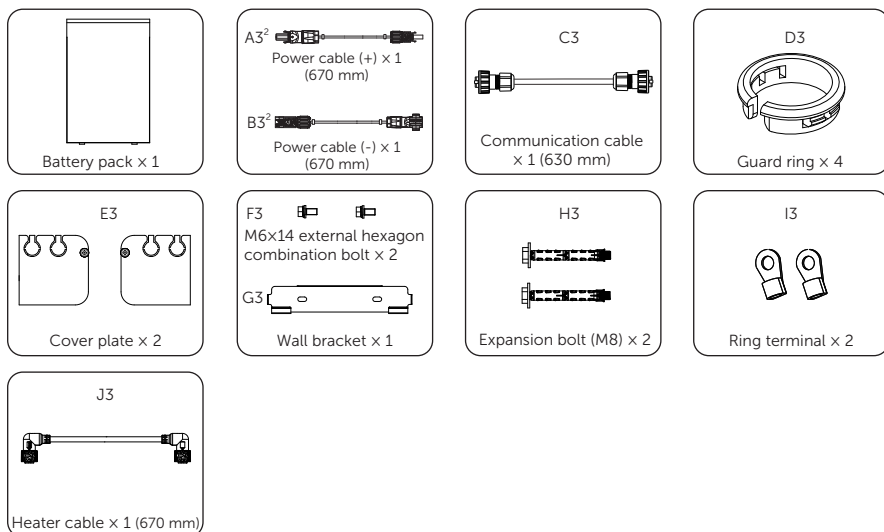


- "1" The connector on one end of the power cable, connecting battery and inverter, is delivered with the inverter's kit. Both the power cables meet the requirements of B2ca.
- For Australia, part marked with * are not included in the accessory kit. Please refer to the actual delivery.

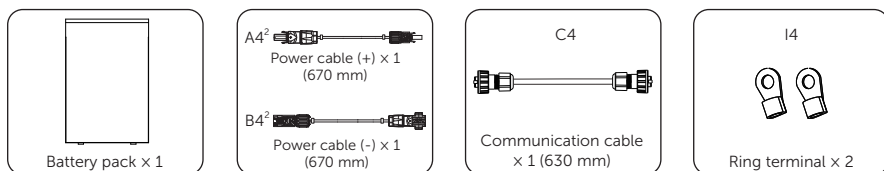
Battery pack (HV11550 V3)



Battery pack (HV11550H V3)



Battery pack (HV11550-A V3)

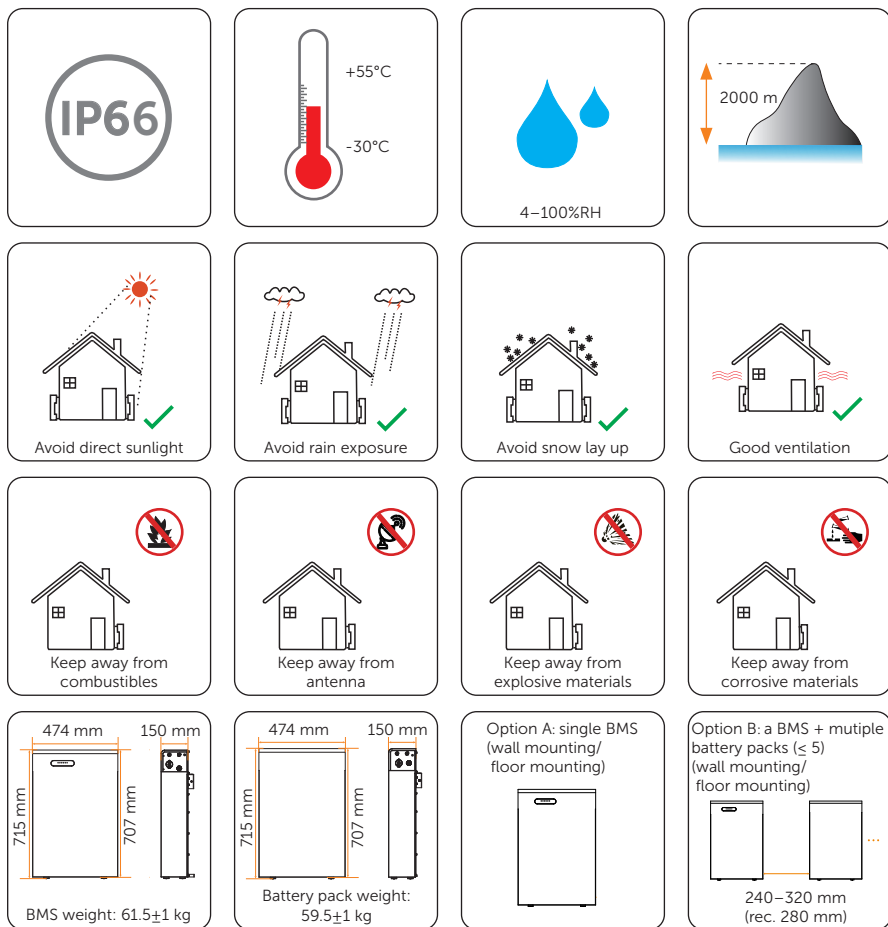


- "2" The cable is used to connect BMS and one battery pack or to connect two battery packs.
- Battery pack (HV11550-A V3) is delivered to Australia.

Installation Site / Installationsort / Site d'installation / Sitio de instalación / Local de instalação / Installatiesite / Sito di installazione / Miejsce instalacji / Misto instalace / Installationsplats / Loc de instalare / Монтажен объект / Monteringssted / Τόπος εγκατάστασης / Paigaldamise koht / Asennuspaikka / Lokacija ugradnje / Telepítési helyszín / Montavimo vieta / Uzstādīšanas vieta / Miesto inštalácie / Mesto namestitve / Kurulum Yeri / Local de Instalação / بيكرتال عقموم

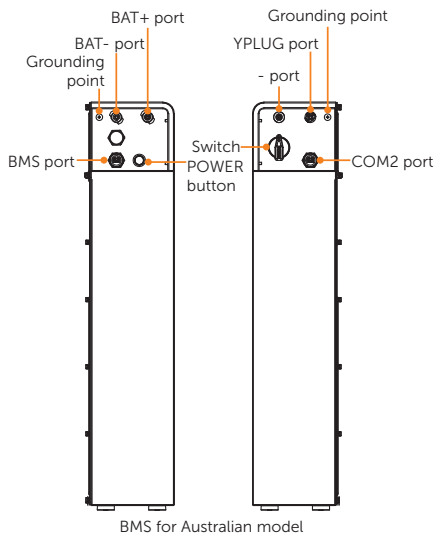
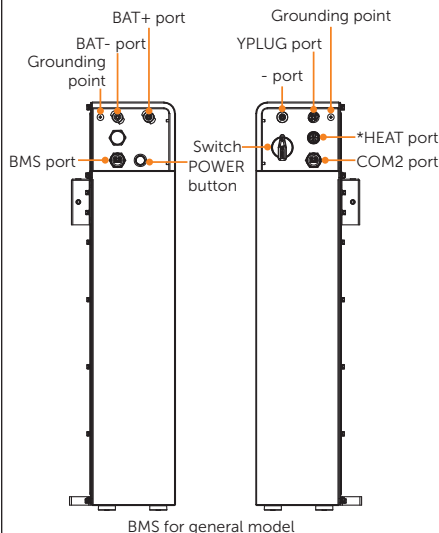
NOTICE!

- The diagrams in this document are for reference only; the actual appearance of the received device shall prevail.
- For outdoor installation, precautions against direct sunlight, rain exposure and snow layup are recommended.
- Exposure to direct sunlight raises the temperature inside the battery. This temperature rise poses no safety risks, but may impact the battery performance.
- Please ensure that the installation site has a bearing capacity of at least 4 times the weight of the entire battery system. For instance, if one BMS and two battery packs are purchased, the bearing capacity $\geq (\text{BMS weight} + \text{battery pack weight} \times 2) \times 4$.

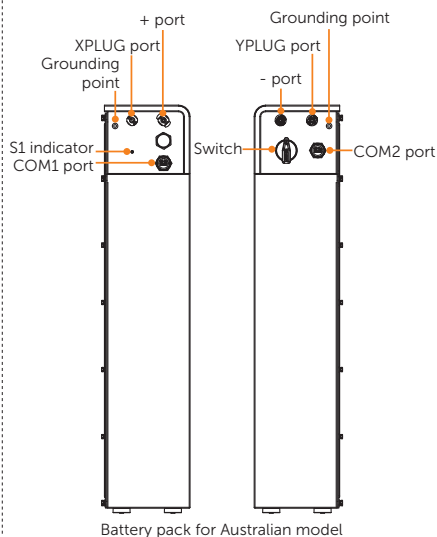
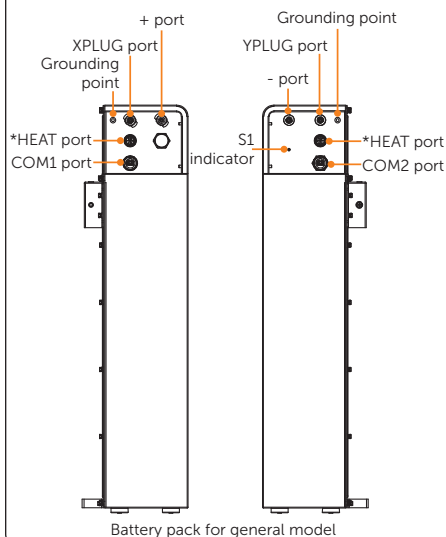


Appearance and Terminals / Erscheinungsbild und Anschlüsse / Apparence et bornes / Aspetto y terminales / Aspetto e Terminalis / Uiterlijk en klemmen / Aspetto e terminali / Wygląd i złącza / Vzhľad a svorky / Utseende och plintar / Aspect și terminale / Външен вид и изводи / Udseende og terminaler/klemmer / Εμφάνιση και Τερματικά / Vālimus ja klemmid / Ulkonäkö ja liittimet / Izgled i terminali / Megjelenés és terminálok / Išvaizda ir grybtai / Izskats un savienotāji / Vzhľad a terminály / Videz in terminali / Diş Görünüş ve Terminaller / Aparência e terminais

* Only for T-BAT H 5.8H V3

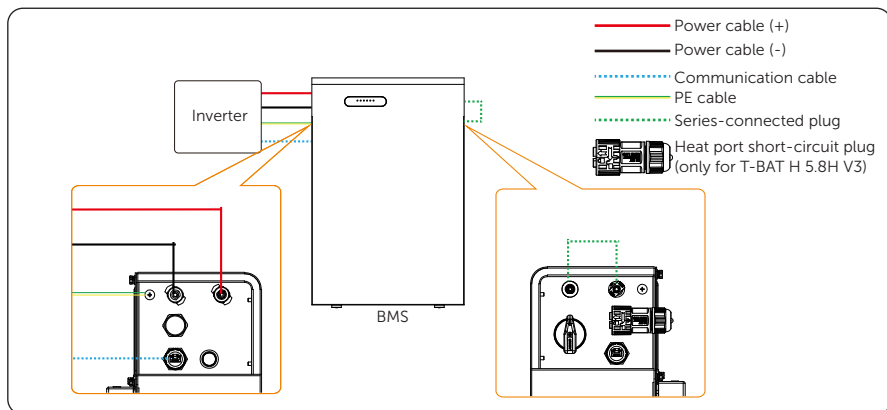


* Only for HV11550H V3

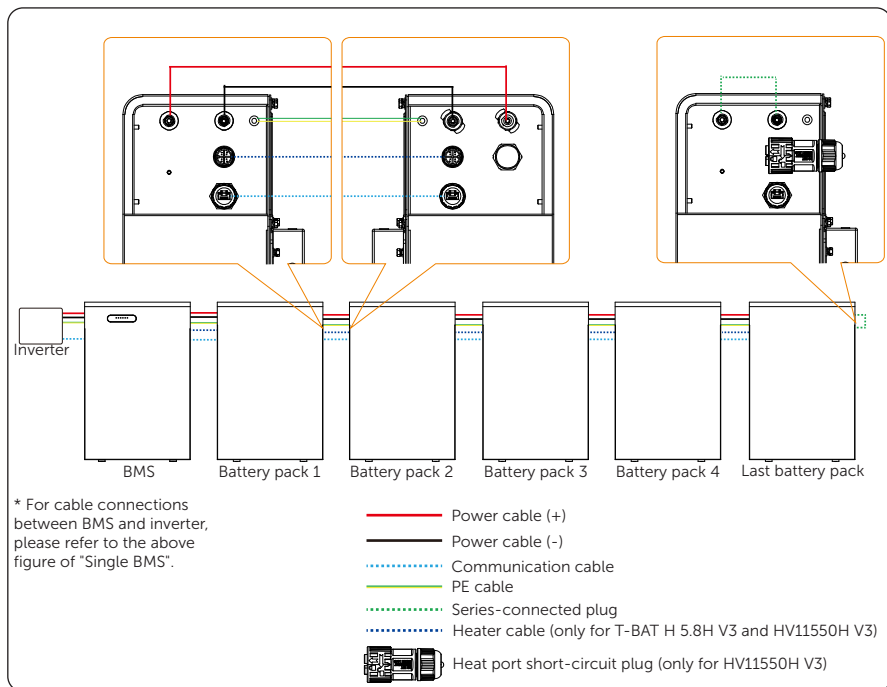


Wiring Diagram / Schaltplan / Schéma de câblage / Diagrama de cableado /
 Diagrama de ligação / Bedradingsschema / Schema elettrico / Schemat połączeń /
 Schéma zapojení / Kopplingsschema / Schemă de conexiuni / Схема на свързване
 / Ledningsdiagram / Διάγραμμα συνδεσμολογίας / Ühendusskeem / KytKentäkaavio
 / Dijagram ožičenja / Kapcsolási rajz / Elektros laidų montavimo schema /
 Elektroinstalācijas shēma / Schéma zapojenia / Električna shema / Bağlantı Şeması /
 Diagrama de fiação / لال سأل ا ط ط خ م

- Single BMS



- One BMS and multiple battery packs (up to five)



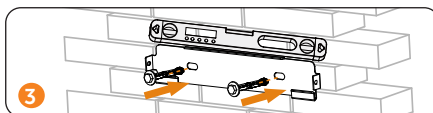
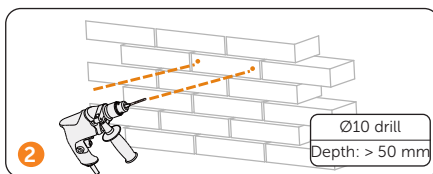
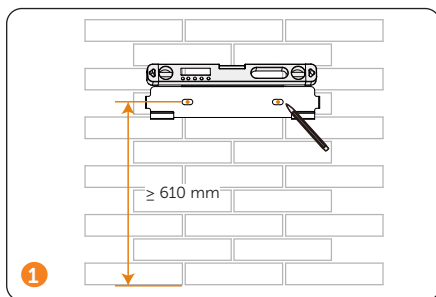
Mechanical Installation / Mechanische Installation / Installation mécanique / Instalación mecánica / Instalação mecânica / Mechanische installatie / Installazione meccanica / Instalacja mechaniczna / Mechanická instalace / Mekanisk installation / Instalare mecanică / Механичен монтаж / Mekanisk installation / Μηχανική εγκατάσταση / Mehaaniline paigaldus / Mekaaninen asennus / Mehanička ugradnja / Mechanikai telepítés / Mechaninis montavimas / Mehāniskā uzstādīšana / Mechanická inštalácia / Mehanska namestitev / Mekanik Kurulum / Instalação Mecânica / بي كرتل ايكين امل

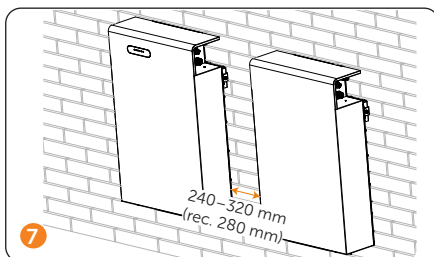
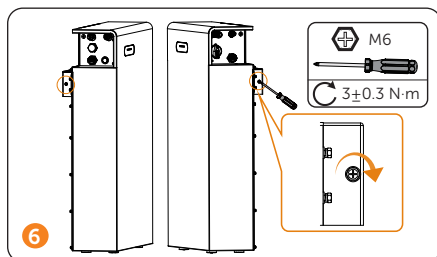
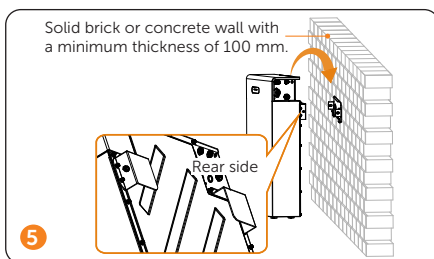
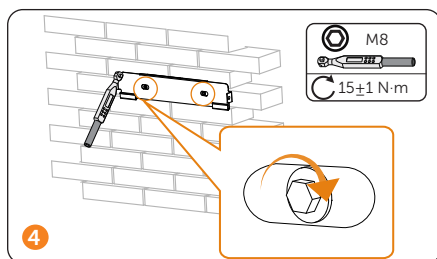
NOTICE!

- Before installing the device, connect the grounding cable first. For details, see "PE Connection".
- In addition to wall mounting and floor mounting, any alternative installation method must be carefully selected based on actual on-site conditions.
- To make sure the normal operation of heating function, it is recommended that BMS with heating function should be used together with battery pack with heating function, so as the BMS without heating function should be used together with battery pack without heating function.
- T-BAT H 5.8 V3, T-BAT H 5.8H V3, HV11550 V3, HV11550H V3 and HV11550-A V3 cannot be used with T-BAT-Charger or BMS Parallel Box-II G2.
- It is not recommended to pair different models (T-BAT H 5.8/V2/(H)V3 and HV11550/V2/(H)V3 or HV11550-A V3) of batteries. However, if used, please strictly follow the compatibility table below for pairing:

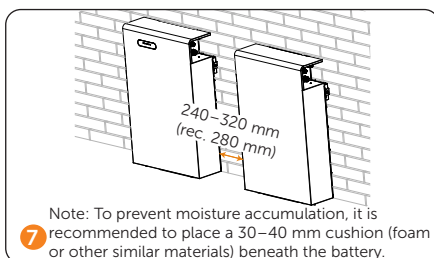
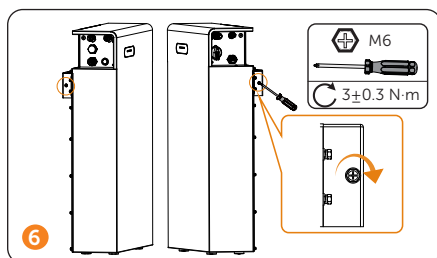
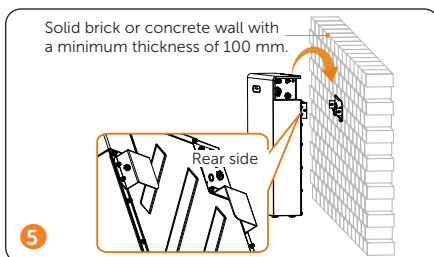
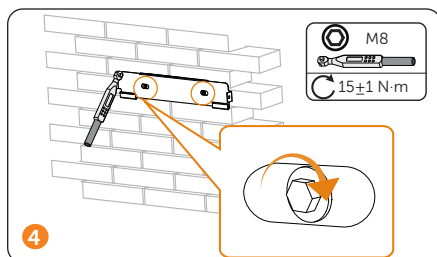
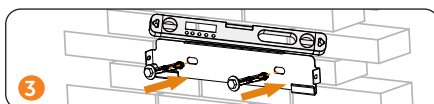
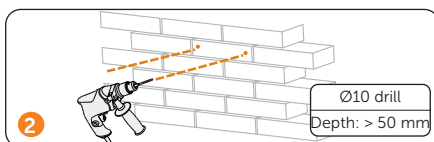
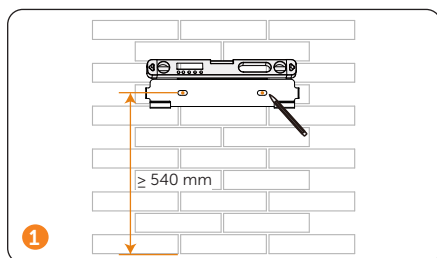
Compatibility between BMS and battery pack	HV11550	HV11550 V2	HV11550 V3	HV11550H V3	HV11550-A V3
T-BAT H 5.8	√ (up to three battery pack)	√ (up to three battery pack) * HV11550 V2's program version cannot be upgraded.	×	×	×
T-BAT H 5.8 V2	√ (up to three battery pack) * HV11550's program version can be upgraded.	√ (up to three battery pack)	√ (up to three battery pack) *Only when T-BAT H 5.8 V2 upgrades to the latest program version of V3 (cannot rollback to V2 program version).		
T-BAT H 5.8 V3	√ (up to five battery pack)		√ (up to five battery pack)		
T-BAT H 5.8H V3	* Avoid configuring HV11550/HV11550 V2 as the fourth or fifth battery pack when pairing with four or five battery packs.				

- Wall mounting





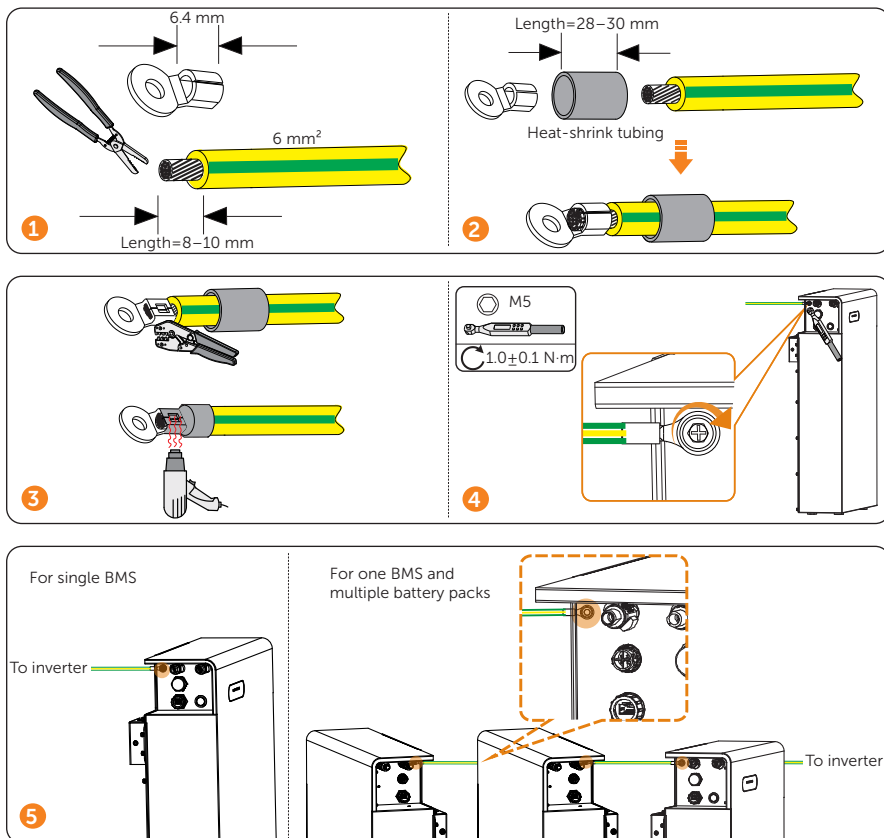
• Floor mounting



NOTICE!

- Please refer to page 4 for the positions of wiring ports for general model and Australian model.
- For PE cable, power cable and communication cable connection to inverter, please refer to the inverter's user manual.
- For T-BAT H 5.8H V3/HV11550H V3, remove the waterproof cap of HEAT port before connecting heater cable or heat port short-circuit plug.
- Make sure that the electricity is turned off before wiring the BMS into the inverter.
- Don't violently remove the cables when they are connected.

PE Connection



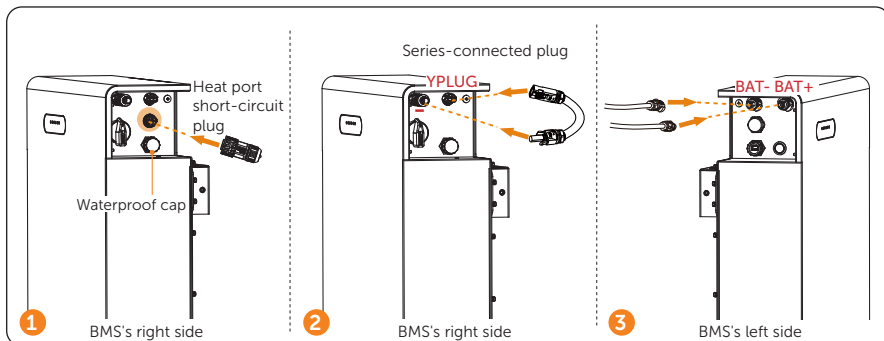
NOTICE!

- The wire size of 6 mm² for PE cable is recommended.

Cable Connection for Single BMS

NOTICE!

- Cable connection for single T-BAT H 5.8 V3: ② ③ ④
- Cable connection for single T-BAT H 5.8H V3: ① ② ③ ④

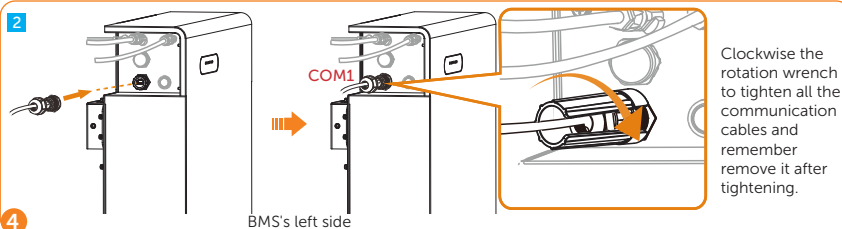
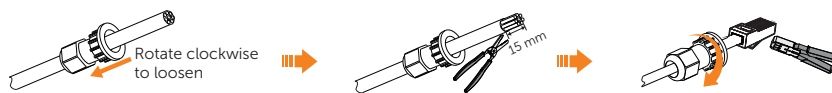


- 1 (Optional) Process the communication cable if you need to change its length according to the actual situation.

- 1) White with orange stripes
- 2) Orange
- 3) White with green stripes
- 4) Blue
- 5) White with blue stripes
- 6) Green
- 7) White with brown stripes
- 8) Brown



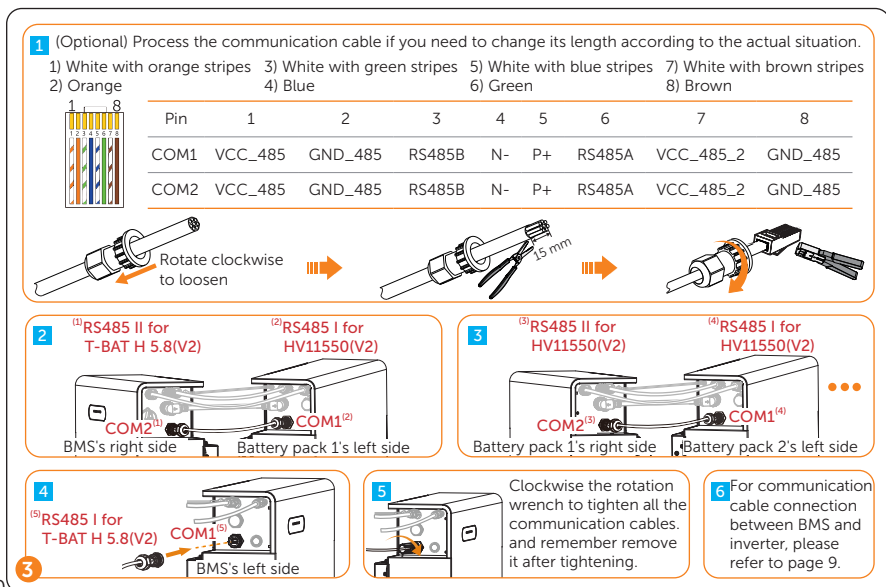
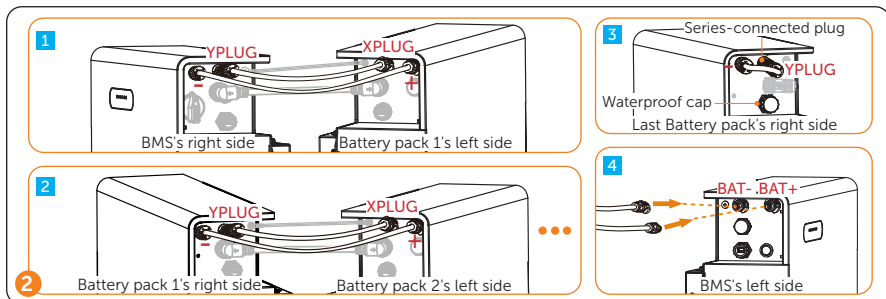
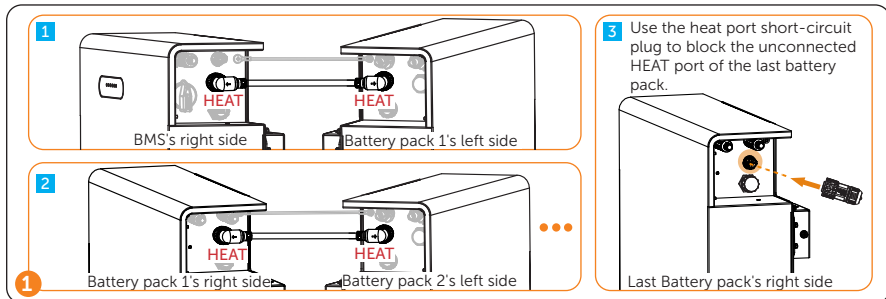
Pin	1	2	3	4	5	6	7	8
BMS	/	GND	/	BMS_H	BMS_L	/	RS485A	RS485B



Cable Connection for One BMS and Multiple Battery Packs

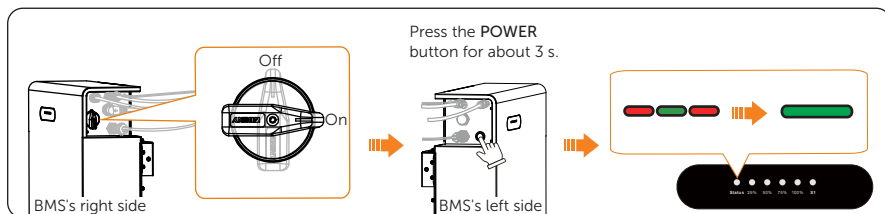
NOTICE!

- Cable connection for T-BAT H 5.8 V3 and HV11550 V3/HV11550-A V3: **2 3**
- Cable connection for T-BAT H 5.8H V3 and HV11550H V3: **1 2 3**

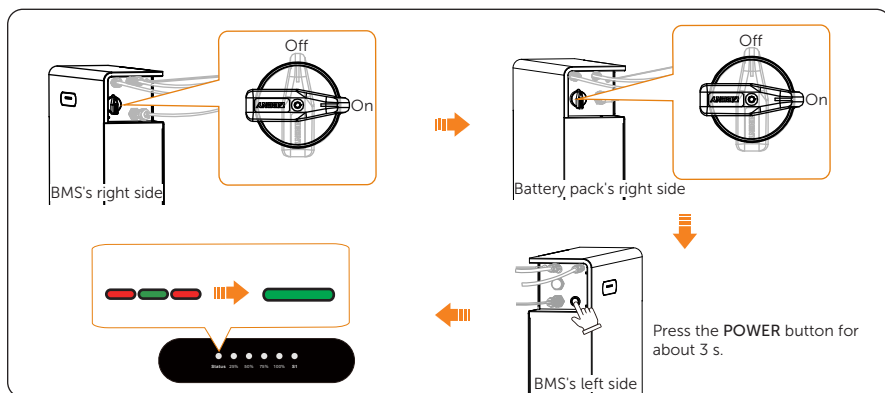


Power On and Off the System / Schalten Sie das System ein / Mise sous tension du système / Enciende el sistema / Ligue o sistema / Het systeem inschakelen / Accensione del sistema / Włączanie systemu / Zapnutí systému / Slå på systemet / Pornire sistem / Включване на системата / Tænd for systemet / Ρεύμα στο σύστημα / Süsteemi sisselülitamine / Kytke järjestelmän virta päälle / Napajanje sustava / Rendszer áram alá helyezése / Įjungti sistemą / Ieslēdziet sistēmu / Zapnite system / Vklópite sistem / Sistemini Gücü / Ligar o sistema / هلي غشت فاق يواو ماظن لا لي غشت

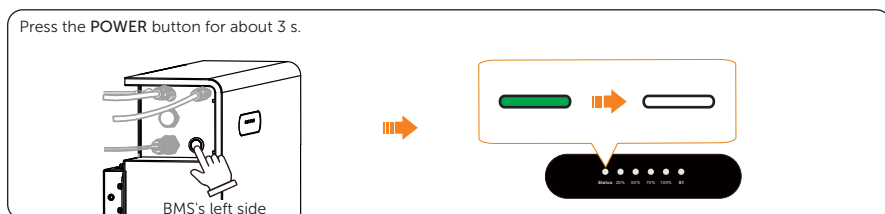
- Power on (for general model)



- Power on (for Australian model)



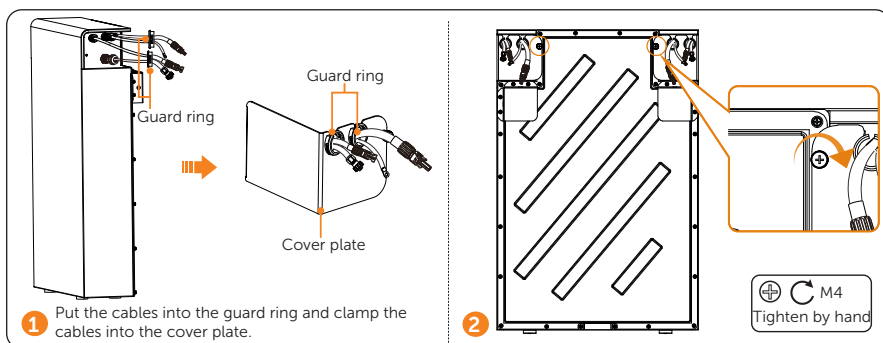
- Power off



Installation of Cover Plate / Montage der Abdeckplatte / Installation de la plaque de protection / Instalación de la placa de cubierta / Instalação de placa de cobertura / Installatie van de afdekplaat / Installazione della piastra del coperchio / Montaż płyty ochronowej / Instalace krycí desky / Installation av täckplåt / Instalarea plăcii de acoperire / Монтаж на покриваща плоча / Montering af dæklade / Εγκατάσταση πλάκας κάλυψης / Katteplaadi paigaldamine / Kansilevyn asentaminen / Ugradnja pokrovne ploče / Fedél felszerelés / Dangtelio montavimas / Pārsega plāksnes uzstādīšana / Instalácia krycej dosky / Nameštitev pokrivne plošče / Kapak Plakasının Takılması / Instalação da placa de cobertura / عا طغل ا ؤحول بي كرت

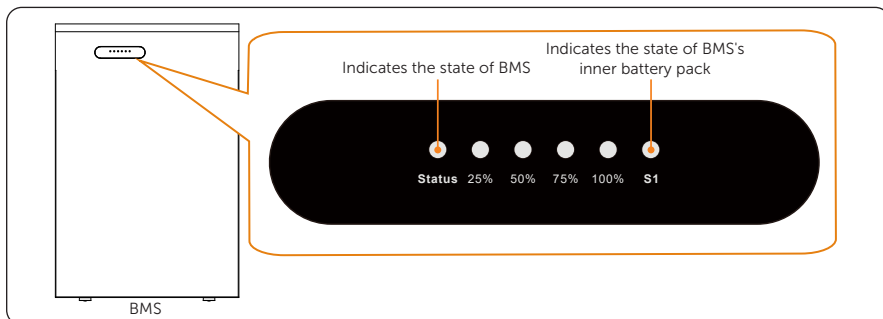
NOTICE!

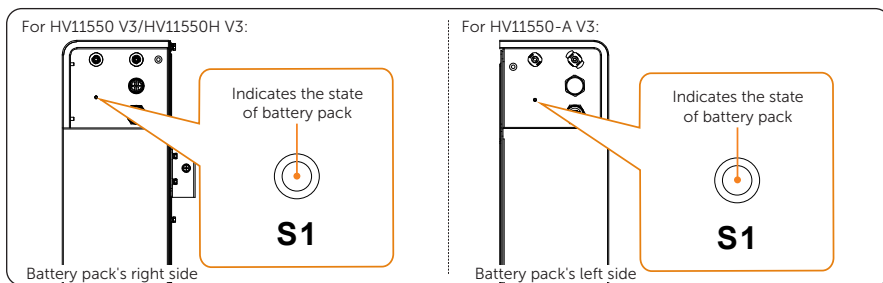
- Installation of cover plates is not required for Australian model.
- Cover plates need to be installed on both sides. The installation steps are available for both BMS and battery pack.



LED Indicators / LED-Indikatoren / Indicateurs LED / Indicadores LED / Indicadores LED / LED-indicatoren / Indicatori LED / Wskaźniki LED / LED indikátory / LED-indikatorer / Indicatori LED / LED индикатори / LED-indikatorer / Ενδεικτικές λυχνίες LED / LED-indikaatorid / LED-merkkivalot / LED pokazatelji / LED kijelzők / LED indikátoriai / LED indikatori / LED indikátory / LED kazalniki / LED Göstergeleri / Indicadores LED / LED تاراش و م

- Status and S1 indicators

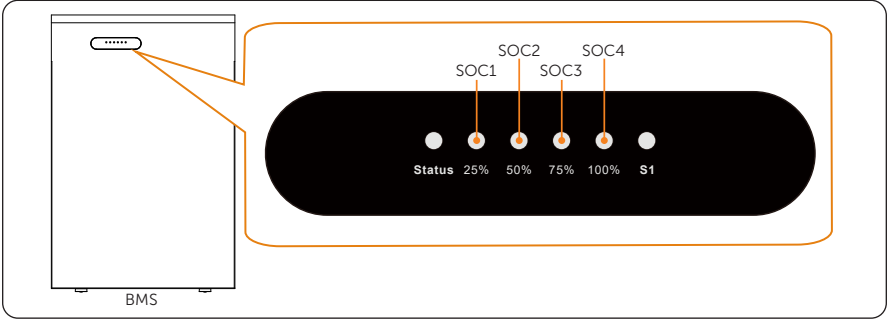




Indicator	Mode	Description
Status	Power on	 Red and green LED flash alternately.
	Standby	 Green LED lights on for 1 s briefly, and then lights off for 4 s.
	Power off	 Yellow LED flashes briefly.
	Fault	 Red LED flashes slowly.
	Idle command from inverter	 Yellow LED briefly lights on for 1 s, and lights off for 1 s.
	Charging	 Solid green.
	Discharging	 Solid green.
	BMS upgrading	 Green LED flashes briefly when receiving data.
	Activation	 Red and green LED flash alternately.

Indicator	Mode	Description
S1	Standby	 Green LED lights on for 1 s briefly, and then lights off for 4 s.
	Battery pack upgrading	 Green LED flashes briefly.
	Charging	 Green LED lights on for 1 s briefly, and then lights off for 4 s.
	Discharging	 Green LED lights on for 1 s briefly, and then lights off for 4 s.
	Fault	 Fault occurs when RS485 communication is losing, LED stays solid red for 10 mins, after that it lights on for 1 s briefly, and then lights off for 4 s.
		 In other cases, yellow LED lights on for 1 s briefly, and then lights off for 4 s.

- SOC indicators



SOC value during charging	SOC1	SOC2	SOC3	SOC4
SOC=0%				
0% < SOC ≤ 25%				
25% ≤ SOC ≤ 50%				
50% ≤ SOC ≤ 75%				
75% ≤ SOC ≤ 100%				
SOC value during discharging	SOC1	SOC2	SOC3	SOC4
SOC=0%				
0% < SOC ≤ 25%				
25% ≤ SOC ≤ 50%				
50% ≤ SOC ≤ 75%				
75% ≤ SOC ≤ 100%				
SOC value during Black Start 10-second cycle: SOC1/4 and SOC2/3 alternately light on for 1 s each.				

Warranty Registration

Please visit the website: <https://www.solaxcloud.com/user-center/> to complete the warranty registration. For more detailed warranty terms, please visit SolaX official website: www.solaxpower.com.



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