Quick Installation Guide

1.Tools Required

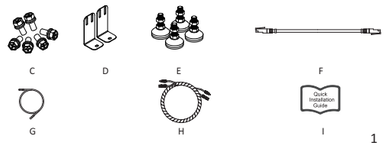
The following tools will be required to install HM (Cube Master) and HS (Cube Slave) .

2. Packing List

For HS :

No.	Items
A	Mounting screw pack
B	Installation guide

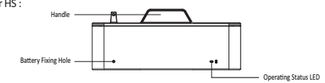
For HM :



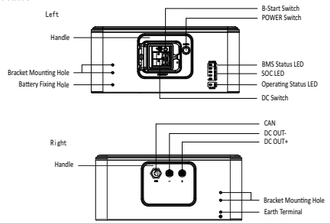
No.	Items	No.	Items
C	Mounting screw pack	H	DC output cable
D	Fixing bracket	I	Installation guide & User manual
E	Footstand	J	Expansion tube*2 & Expansion screw*2
F	Communication cable (BMS-inverter)	K	Waterproof cover
G	Grounding cable	L	RJ45

3. Terminals

For HS :



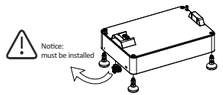
For HM :



4. Installation Steps

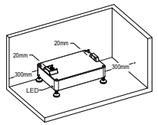
Step 1

Install a HS with four footstand (Item E) and place it on the ground and adjust it to the level. After installing the feetstand, use a track level bar to confirm the level. Insert the waterproof cover (Item K) into the bottom of the battery and lock it in place with the clip.



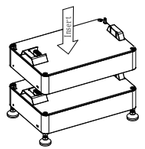
Step 2

Place the battery 20mm against the wall. Note: Please make sure the Operating Status LED is on your left handside when you facing the battery model.



Step 3

Stack the batteries one by one.



Step 4

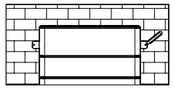
Place the two fixing brackets (Item D) close to the wall and install them on both sides of the battery.

Step 5

Mark the wall through the bracket hole.

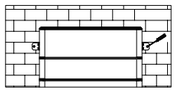
Step 6

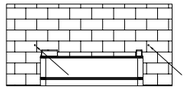
Punch after removing the HM. Drill holes with electric drill, make sure the holes are at least 50mm deep, and then tighten the expansion tubes (Item J).



Step 7

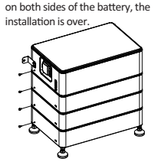
After stacking HM again, fix the battery on the wall.



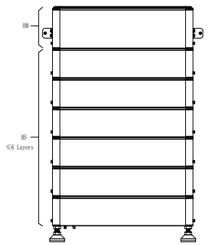


Step 8

Fix the mounting screw packs (Item A) on both sides of the battery, the installation is over.



Note: Please make sure each system including 1 HM and 1 HS.HS less than 6(1~6) pieces:



5. Wiring Steps

A: Connect the inverter and make sure the wiring position is correct, as shown in the figure below.

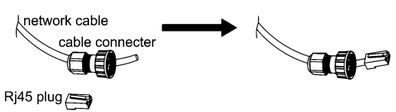
Note: Inverter wiring refer to the inverter user manual.

For outdoor use,please use item L and proceed as follows

Connection steps:

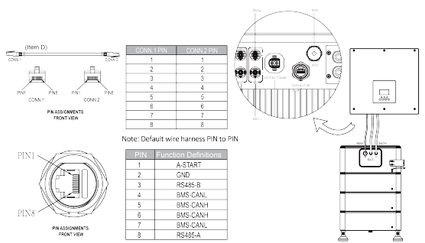
Step 1:Prepare a standard network cable and cable connector, then insert the network cable through the cable connector.

Step 2: Crimp the cable with a Rj45 plug which is inside of the cable connector.



If the usage is indoor, please use item F

Step 3: Insert the cable connector into BMS port at the bottom of inverter and screw it tightly.

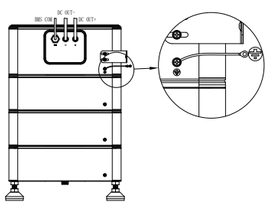


CONN1 PIN	CONN2 PIN
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

Note: Default wire harness PIN to PIN

PIN	Function Definitions
1	A-START
2	GND
3	RS485-B
4	BMS-CAN.
5	BMS-CAN-H
6	BMS-CAN-H
7	BMS-CAN.
8	RS485-A

B: Connect the grounding cable. The figure is shown below.



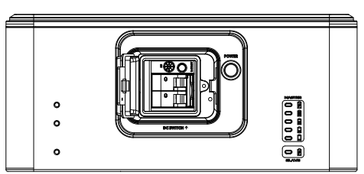
6. System Start Up

HM operation:

1. Normal mode: When there is PV and grid access, turn on DC switch first, then press "POWER" button.
2. Black start: When there is no PV and grid access, turn on DC switch first, then press "POWER" button, then press and hold "B-Start " button and release it after 10s.

Startup steps:

Turn on DC switch and press the POWER switch, firstly Master LED will light up once, and then the BMS Status LED will light up for 0.5s,Operating Status LED will light up for 1s at the same time,it means that the system works normally.



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Solavita

V1.0.2
10-203-00292-01

Guida rapida all'installazione

1.Strumenti necessari

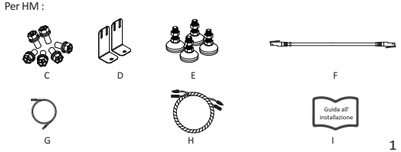
Per installare HM (Cube Master) e HS (Cube Slave) sono necessari i seguenti strumenti.

2. Lista di imballaggio

Per HS :

No.	Articoli
A	Confezione di viti di montaggio
B	Guida all'installazione

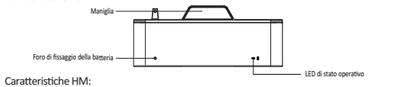
Per HM :



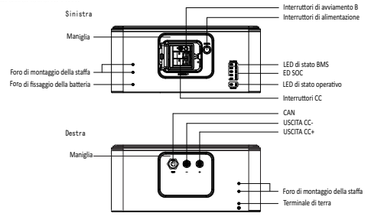
No.	Articoli	No.	Articoli
C	Confezione di viti di montaggio	H	Cavo di uscita CC
D	Staffa di fissaggio	I	Guida all'installazione e Manuale d'uso
E	Piedistallo	J	Tubo di espansione*2 e Vite di espansione*2
F	Cavo di comunicazione (BMS-Inverter)	K	Copertura impermeabile
G	Cavo di messa a terra	L	RJ45

3. Terminals

Caratteristiche HS:



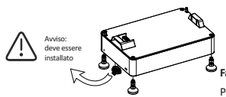
Caratteristiche HM:



4. Installation Steps

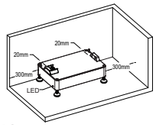
Fase 1

Installare un HS con quattro cavalletti (articolo E), posizionarlo sul terreno e regolarlo in base al livello. Dopo aver installato il supporto, utilizzare una barra di livello per verificare il livello. Inserire il coperchio impermeabile (articolo K) nella parte inferiore della batteria e bloccarlo in posizione con la clip.



Fase 2

Posizionare la batteria a 20 mm dalla parete. Nota: Assicurarsi che il LED di stato operativo si trovi sul lato sinistro della mano quando ci si trova di fronte al modello di batteria.

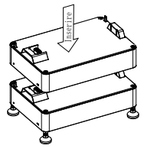


Fase 3

Impilare le batterie una per una.

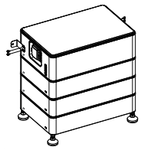
Fase 4

Posizionare le due staffe di fissaggio (Articolo D) vicino alla parete e installarle su entrambi i lati della batteria.



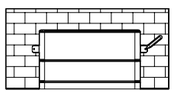
Fase 5

Segnare la parete attraverso il foro della staffa.



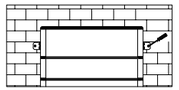
Fase 6

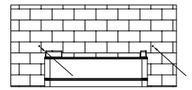
Punzonatura dopo la rimozione del HM. Praticare i fori con il trapano elettrico, assicurarsi che i fori siano profondi almeno 50 mm, quindi serrare i tubi di espansione (Articolo J).



Fase 7

Dopo aver impilato nuovamente il HM, fissare la batteria alla parete.

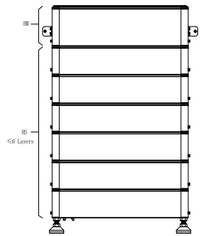




Fase 8

Fissare le viti di montaggio (Articolo A) su entrambi i lati della batteria e l'installazione è terminata.

Note: Assicurarsi che ogni sistema includa 1 HM e 1 HS. HS meno di 6 (1~6) pezzi:



5. Fasi di cablaggio

A: Collegare l'inverter per verificare che la posizione del cablaggio sia corretta, come mos trato nella figura seguente.

Nota: per il cablaggio dell'inverter fare riferimento al manuale d'uso dell'inverter.

Per l'uso all'aperto, utilizzare l'articolo L e procedere come segue

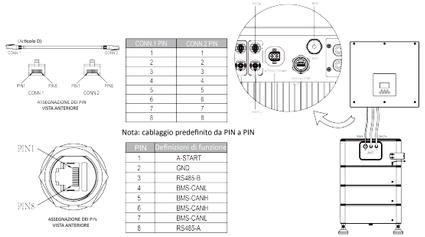
Fasi di connessione:

Fase 1: preparare un cavo di rete standard e un connettore per cavi, quindi inserire il cavo di rete attraverso il connettore per cavi.

Fase 2: crimpare il cavo con una spina Rj45 che si trova all'interno del connettore del cavo.

Se l'utilizzo è in interni, utilizzare la voce F

Fase 3: Inserire il connettore del cavo nella porta BMS sul fondo dell'inverter e avvitarlo saldamente.

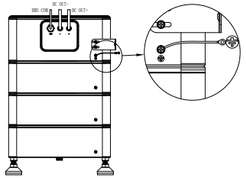


CONN 1 PIN	CONN 2 PIN
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

Nota: cablaggio predefinito da PIN a PIN

PIN	Definizione di funzione
1	A-START
2	GND
3	RS485-B
4	BMS-CANL
5	BMS-CANH
6	BMS-CANH
7	BMS-CANL
8	RS485-A

B: Collegare il cavo di messa a terra per garantire la messa a terra di tutte le batterie. Il cablaggio deve essere collegato nella sequenza indicata di seguito.



Kurzanleitung zur Installation

1. Erforderliche Werkzeuge

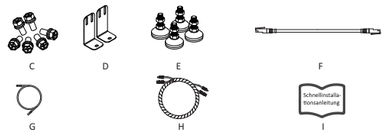
Für die Installation von HM (Master-Modul) und HS (Slave-Modul) werden folgende Werkzeuge benötigt.

2. Packliste

Für HS :

Anzahl	Artikel
A	Befestigungsschraubenpaket
B	Installationsanleitung

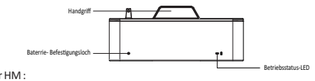
Für HM :



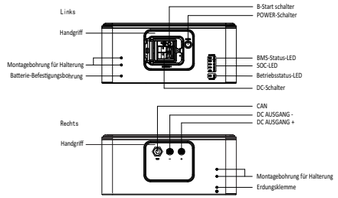
Anzahl	Artikel	Anzahl	Artikel
C	Befestigungsschraubenpaket	H	DC-Ausgangskabel
D	Befestigungswinkel	I	Installationsanleitung & Benutzerhandbuch
E	Fußstütze	J	Erweiterungsrohr*2 & Erweiterungsschraube*2
F	Kommunikationskabel (BMS-Wechselrichter)	K	Wasserdichte Abdeckung
G	Erdungskabel	L	RJ45

3. Terminals

Für HS :



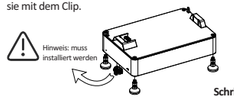
Für HM :



4. Installationsschritte

Schritt 1

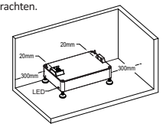
Installieren Sie einen HS mit vier Fußstützen (Element E), stellen Sie ihn auf den Boden und richten Sie ihn auf die Höhe aus. Verwenden Sie nach der Installation des Fußständers eine Wasserwaage, um die Nivellierung zu überprüfen. Setzen Sie die wasserdichte Abdeckung (Element K) in den Boden der Baterrien ein und verriegeln Sie sie mit dem Clip.



Schritt 2

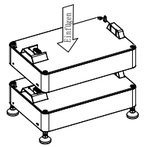
Stellen Sie die Batterie 20 mm gegen die Wand.

Hinweis: Achten Sie darauf, dass sich die Betriebsstatus-LED auf der linken Seite befindet, wenn Sie das Batteriemodell betrachten.



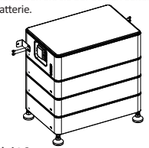
Schritt 3

Stapeln Sie die Batterien eine nach der anderen.



Schritt 4

Bringen Sie die beiden Befestigungsbügel (Pos. D) in der Nähe der Wand an und montieren Sie sie auf beiden Seiten der Batterie.

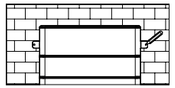


Schritt 5

Markieren Sie die Wand durch das Loch in der Halterung.

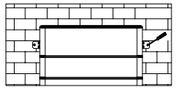
Schritt 6

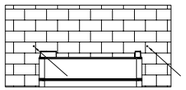
Stanzen Sie nach dem Entfernen des HM. Bohren Sie die Löcher mit einer elektrischen Bohrmaschine, stellen Sie sicher, dass die Löcher mindestens 50 mm tief sind, und ziehen Sie dann die Dehnungsrohre fest (Element J).



Schritt 7

Nachdem Sie HM wieder gestapelt haben, befestigen Sie die Batterie an der Wand.

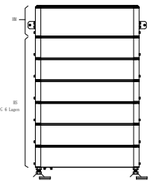




Schritt 8

Befestigen Sie die Schraubenpakete (Pos. A) auf beiden Seiten der Batterie, und die Installation ist abgeschlossen.

Hinweis: Bitte stellen Sie sicher, dass jedes System 1 HM und 1 HS enthält. HS weniger als 6 (1~6) Stück:



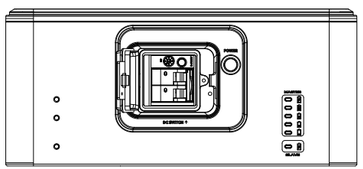
6. Avvio del sistema

Funzionamento del HM:

1. Modalità normale: In caso di accesso al fotovoltaico e alla rete, accendere prima l'interruttore CC, quindi premere il pulsante "POWER".
2. Avvio in nero: In assenza di FV e di accesso alla rete, accendere prima l'interruttore CC, poi premere il pulsante "POWER", quindi tenere premuto il pulsante "B-Start" e rilasciarlo dopo 10 secondi.

Fasi di avvio:

Accendere l'interruttore CC e premere l'interruttore POWER, il LED Master si accenderà una volta, quindi il LED di stato BMS si accenderà per 0,5s, il LED di stato operativo si accenderà contemporaneamente per 1s, il che significa che il sistema funziona normalmente.



Eseguire la scansione del codice QR e seguire i passaggi indicati di seguito per scaricare il nostro ultimo manuale d'uso multilingue/guida rapida all'installazione:

Scansionare il codice QR → Selezionare la lingua → Scegliere di scaricare Manuale d'uso o Guida rapida all'installazione → Download

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5. Verdrahtungsschritte

A: Schließen Sie den Wechselrichter an, um sicherzustellen, dass die Verdrahtung korrekt ist, wie in der Abbildung unten dargestellt.

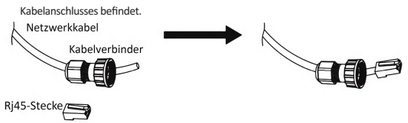
Hinweis: Die Verdrahtung des Wechselrichters entnehmen Sie bitte dem Benutzerhandbuch des Wechselrichters.

Für die Verwendung im Freien verwenden Sie bitte Artikel K und gehen wie folgt vor

Schritte zum Anschluss:

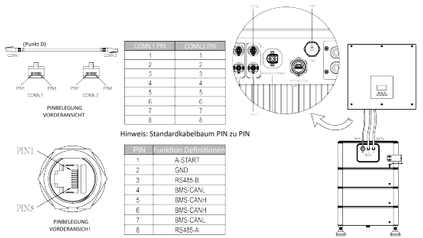
Schritt 1: Bereiten Sie ein Standard-Netzwerkkabel und einen Kabelstecker vor und führen Sie das Netzwerkkabel durch den Kabelstecker.

Schritt 2: Crimpen Sie das Kabel mit einem Rj45-Stecker, der sich im Inneren des Kabelanschlusses befindet.



Bei Verwendung in Innenräumen verwenden Sie bitte Punkt F

Schritt 3: Stecken Sie den Kabelstecker in den BMS-Anschluss an der Unterseite des Wechselrichters und schrauben Sie ihn fest.

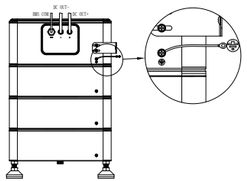


CONN 1 PIN	CONN 2 PIN
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

Hinweis: Standardkabelbaum PIN zu PIN

PIN	Funktion Definitionen
1	A-START
2	GND
3	RS485-B
4	BMS-CANL
5	BMS-CANH
6	BMS-CANH
7	BMS-CANL
8	RS485-A

B:Schließen Sie das Erdungskabel an, um sicherzustellen, dass alle Batterien geerdet sind. Die Verdrahtung muss in der unten gezeigten Reihenfolge angeschlossen werden.



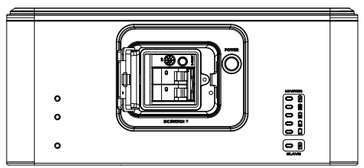
6. System Start Up

HM-Betrieb:

1. Normaler Modus: Wenn PV und Netzanschluss vorhanden sind, schalten Sie zuerst den DC-Schalter ein und drücken Sie dann die Taste "POWER".
2. Schwarzstart: Wenn keine PV-Anlage und kein Netzzugang vorhanden ist, schalten Sie zuerst den DC-Schalter ein, drücken Sie dann die Taste "POWER", halten Sie die Taste "B-Start" gedrückt und lassen Sie sie nach 10 Sekunden wieder los.

Schritte zum Start:

Schalten Sie den DC-Schalter ein und drücken Sie den POWER-Schalter, zuerst leuchtet die Master-LED einmal auf, dann leuchtet die BMS-Status-LED für 0,5s auf, die Betriebsstatus-LED leuchtet gleichzeitig für 1s auf, das bedeutet, dass das System normal funktioniert.



Bitte scannen Sie den QR-Code und folgen Sie den nachstehenden Schritten, um unser aktuelles mehrsprachiges Benutzerhandbuch/Quick Installation Guide herunterzuladen:

Scannen Sie den QR-Code → Wählen Sie Ihre Sprache → Wählen Sie, ob Sie das Benutzerhandbuch oder die Schnellinstallationsanleitung herunterladen möchten → Herunterladen

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