

Battery vision 1.0 / 2.0

Inverter vision max 1.0

IMPORTANT: Please refer to the respective type plate to determine which generation of battery packs you have. Check whether these instructions are up-to-date. You can find the current version and all language variants under this QR code:



WICHTIG: Welche Gerätegeneration Battery packs vorliegt, entnehmen Sie bitte dem jeweiligen Typenschild. Prüfen Sie, ob diese Anleitung aktuell ist. Die aktuelle Version und alle Sprachvarianten finden Sie unter diesem QR-Code:

Quickstart Guide

Schnellstartanleitung

Guide de démarrage rapide

Guida rapida

Snelstartgids

#06702 | Rev 4 | 13.04.2026

For detailed Installation and Operating Instructions scan the QR code below.



Für die ausführliche Installations- und Bedienungsanleitung scannen Sie den folgenden QR code.



Pour des instructions d'installation et d'utilisation détaillées, scannez le code QR ci-dessous.



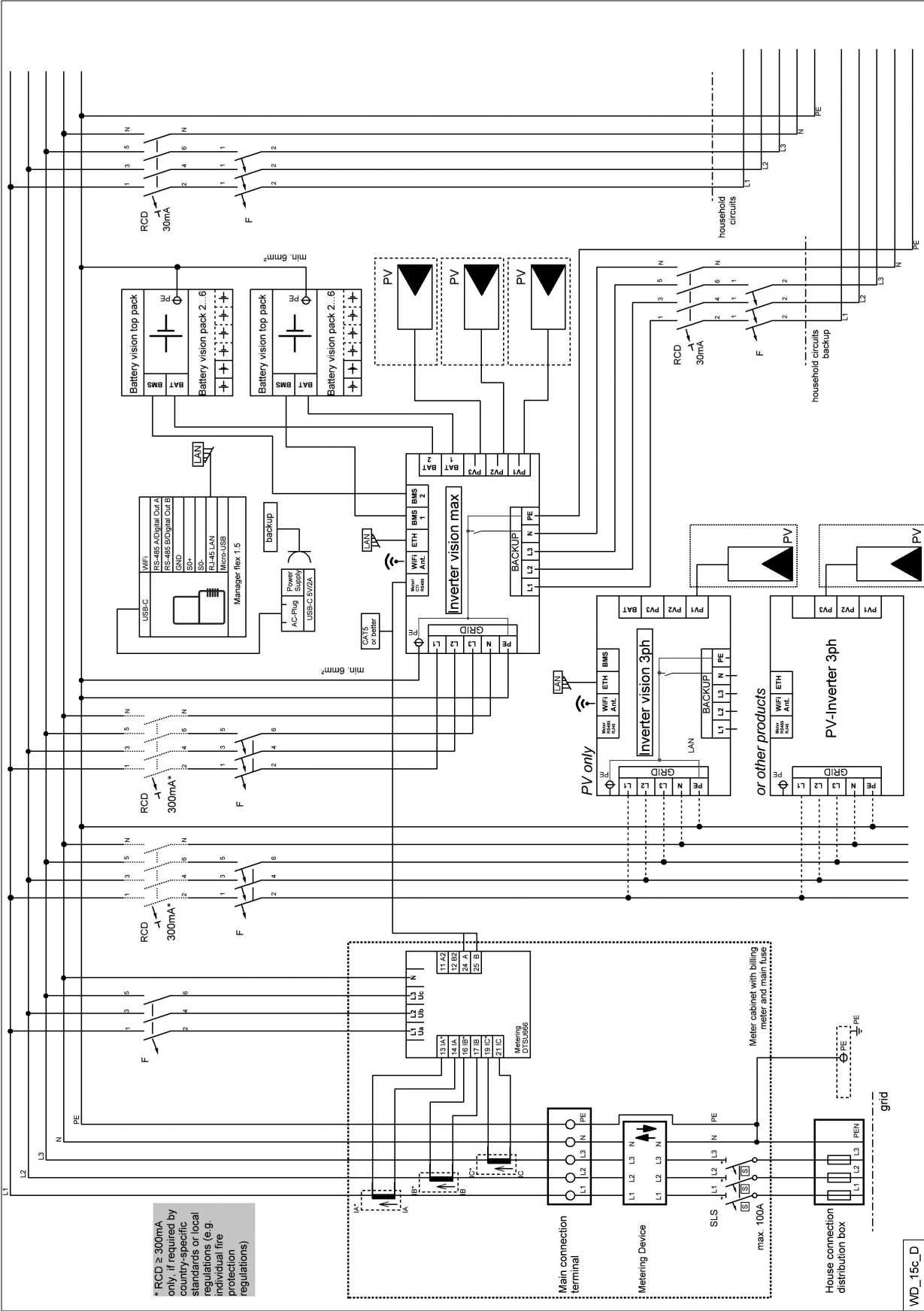
Per istruzioni dettagliate sull'installazione e l'uso, scansionare il codice QR qui sotto.



Scan de QR-code hieronder voor gedetailleerde installatie en gebruiksinstructies.

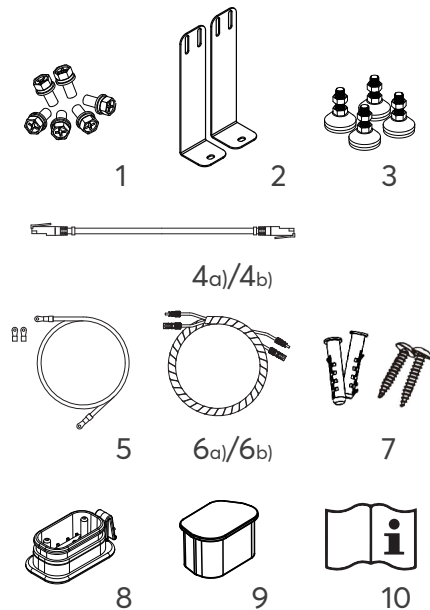


SYSTEM DESIGN



Battery vision packs

Packing list top pack



1 Screws

2 for pack fixing and 4 for bracket-fixing

1a) M6 screws (top pack 2.0)

1b) M5 screws (top pack 1.0)

2 Fixing bracket

3 Footstand

4 Comm. cable, BMS - Inverter

4a) 3,0 m (top pack 2.0)

4b) 1,5 m (top pack 1.0)

5 Grounding cable with 2 additional cable lugs

6 DC cable battery

6a) 3,0 m (top pack 2.0)

6b) 1,5 m (top pack 1.0)

7 2 Screws for wall-fixing

8 Bridging plug

9 Connector protection cover (only included for pack 1.0)

10 Safety Instructions

Packing list pack



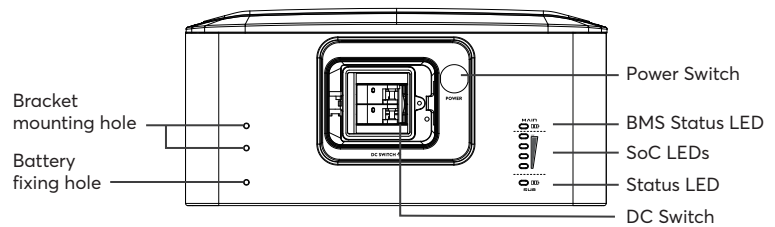
23 Screws for pack-fixing

23a) M6 screws (pack 2.0)

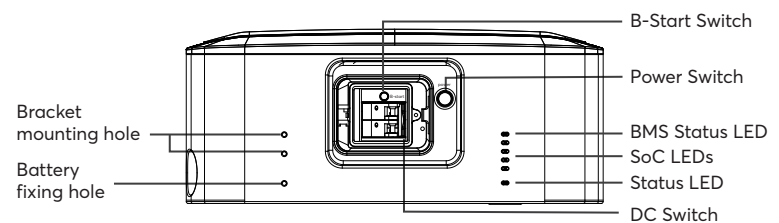
23b) M5 screws (pack 1.0)

24 Safety Instructions

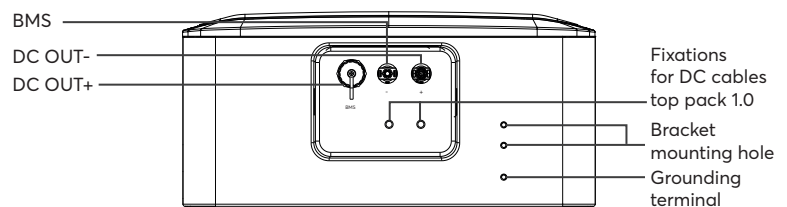
View from the left side top pack 2.0



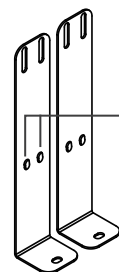
View from the left side top pack 1.0



View from the right side

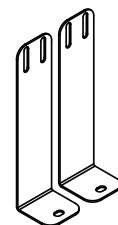
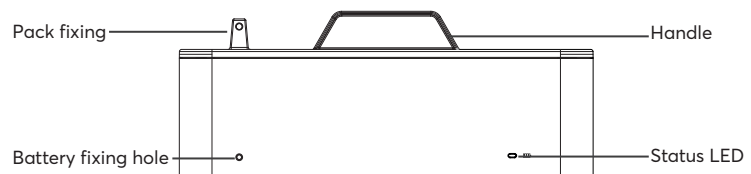


Fixing bracket top pack 2.0

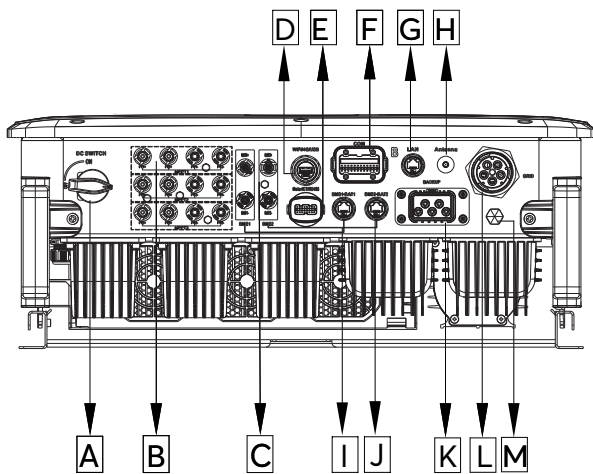
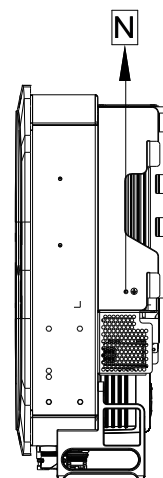


Fixations
for DC cables
top pack 2.0

Fixing bracket top pack 1.0



Inverter vision max 1.0



A DC SWITCH
B PV 1-6
C BAT1, BAT2
D WIFI/4G/USB
E METER/CT/RS485

F COM CLUSTER
G LAN
H ANTENNA
I BMS 1
J BMS 2

K BACKUP
L GRID
M WATERPR. LOCK VALVE
N GROUNDING



11



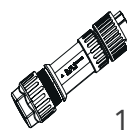
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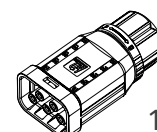
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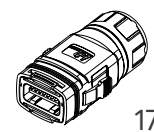
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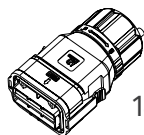
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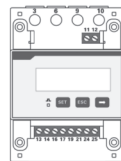
16



17



18



19



20



21



22



23

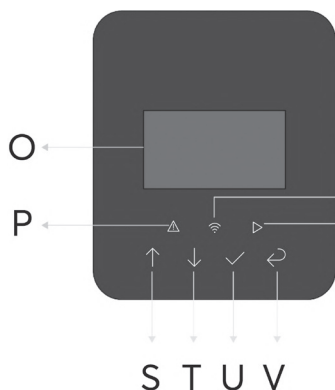


24

11 Fixing bracket
12 PV connectors (MC4 Stäubli)
13 PV pin contacts
14 Screws and dowels
wall fixing, inverter fixing (M4),
grounding (M5)
15 AC connector grid

16 AC connector backup
17 Communication connector
meter
18 Communication connector
cluster
19 Meter with CT-clamps
20 RJ45 outdoor adaptors

21 Earth terminal
22 Mechanical lock for grid conn.
23 Antenna
24 Quickstart Guide
Safety Instructions

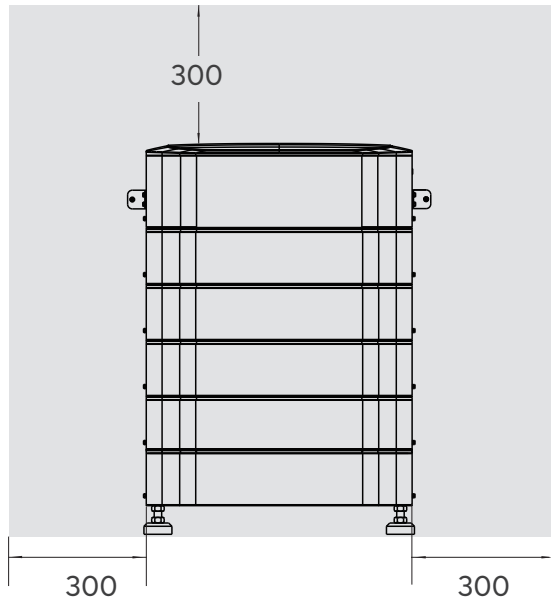


O LC display
P red: fault
Q blue: WiFi/LAN status
R green: operational state
S move up; increase value
T move down; decrease value
U confirm
V return/exit

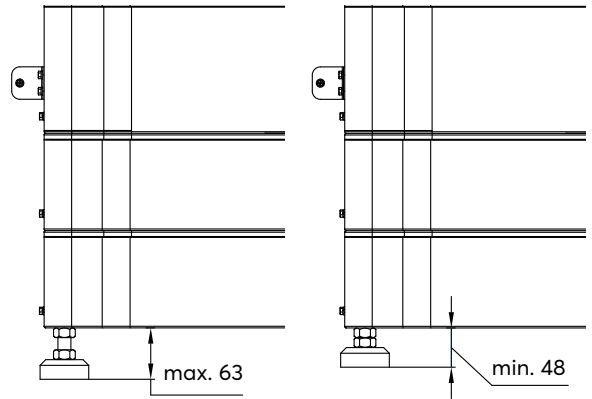
Additional equipment required:

- communication cable (2-core RS485 cable) to chint-meter
- DC- and AC-cable for inverter
- LAN cable for inverter (optional)
- grounding cable for inverter
- circuit breaker

DIMENSIONS BATTERY VISION [MM]



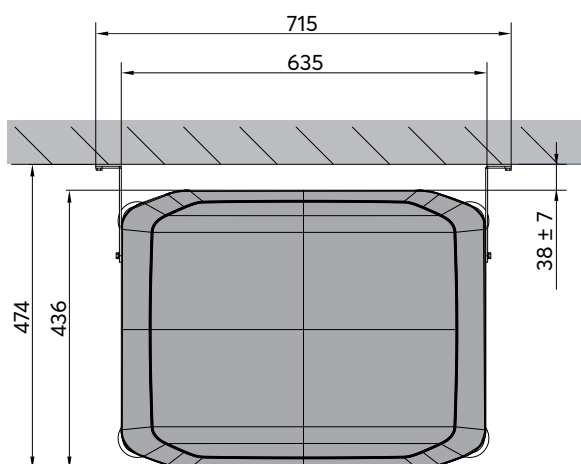
Minimum installation space
(min. working area in front: 1,200)



Flexible distance to the floor

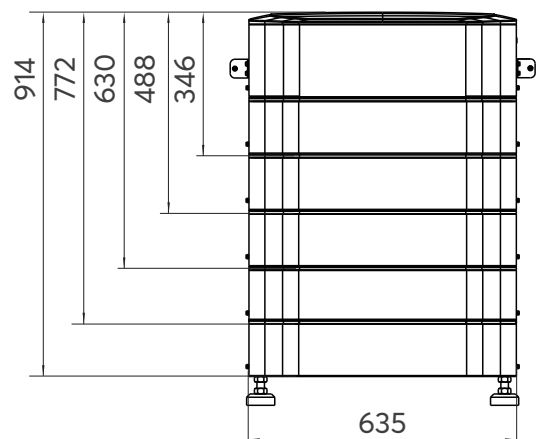
Battery vision 2.0

(view from above)



Installation width, depth
distance to the wall: 38 mm

Battery vision 2.0

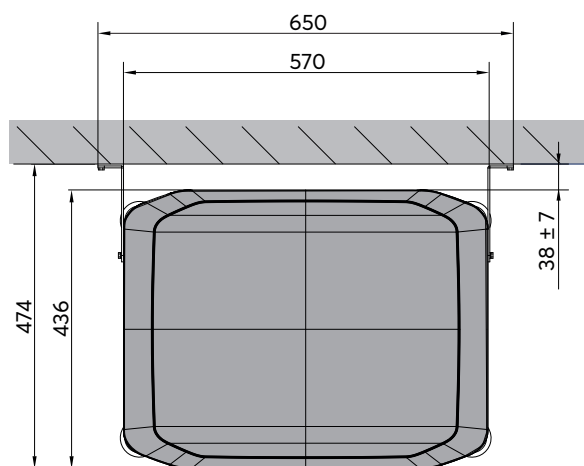


Installation height (without footstands)

DIMENSIONS BATTERY VISION [MM]

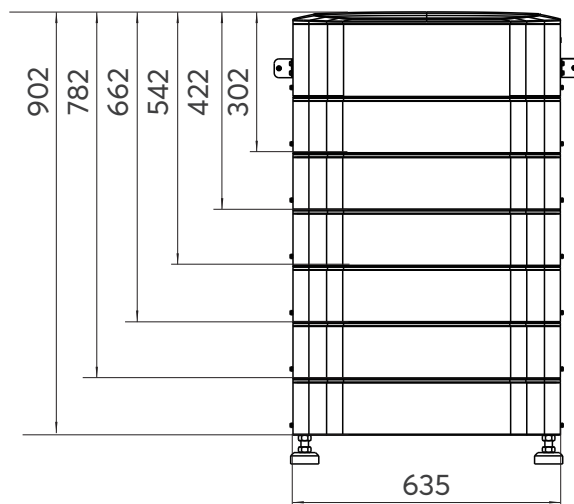
Battery vision 1.0

(view from above)



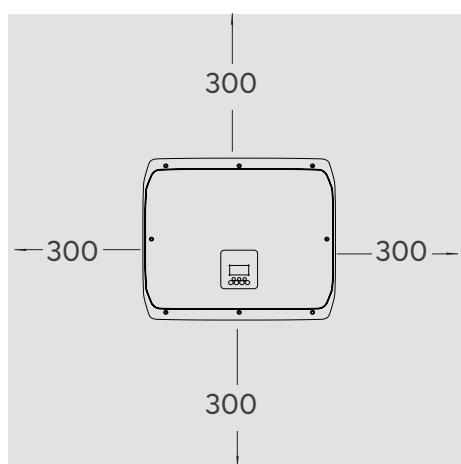
Installation width, depth
distance to the wall: 38 mm

Battery vision 1.0

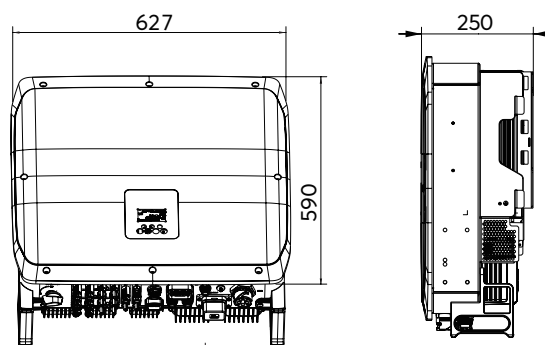


Installation height (without footstands)

DIMENSIONS INVERTER VISION MAX [MM]



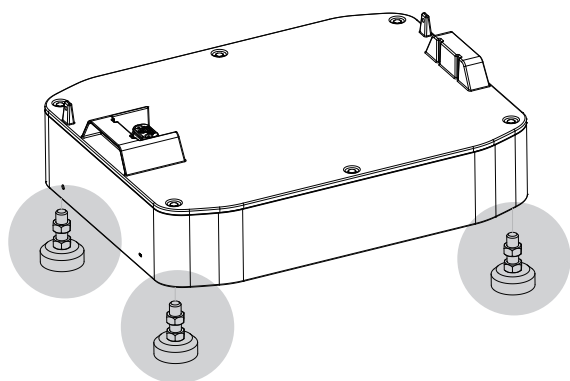
Minimum installation space
(min. working area in front: 1,200)



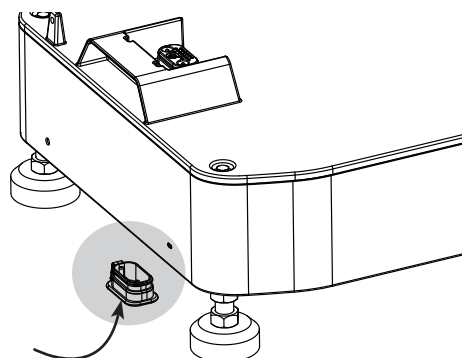
1.5 m
distance
to battery

Battery connection
cable length:
pack 2.0: 3.0 m
pack 1.0: 1.5 m

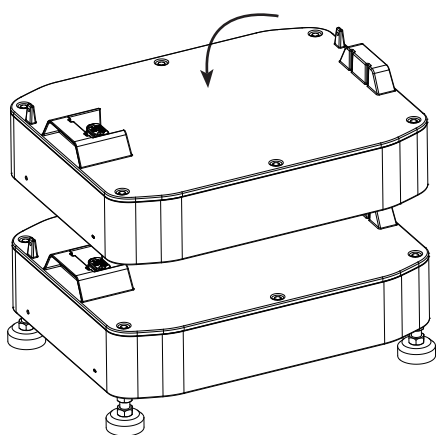
BATTERY PACKS ASSEMBLY AND WIRING



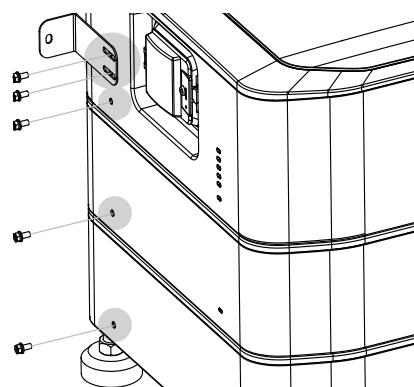
Screw in the four feet into the bottom pack
(3)
(footstands are provided in the box of the top pack)



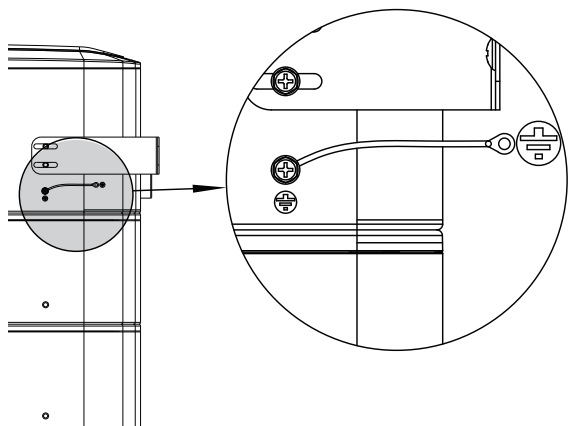
Insert bridging plug **(8)**
(plug is provided in the box of the top pack)



Stack packs from the bottom up, finishing
with the top pack

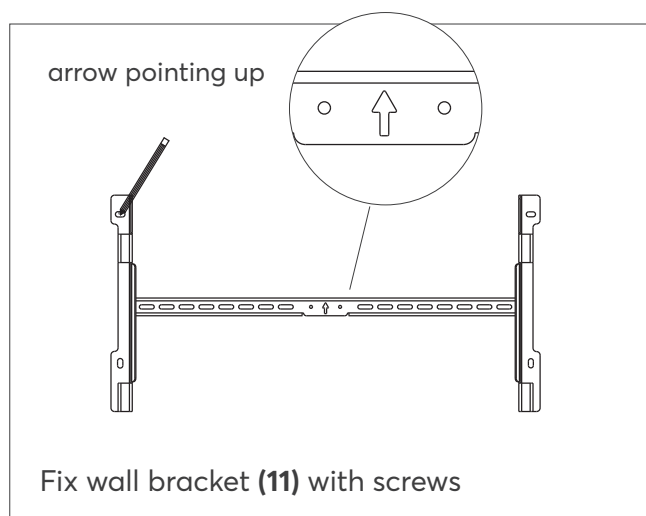
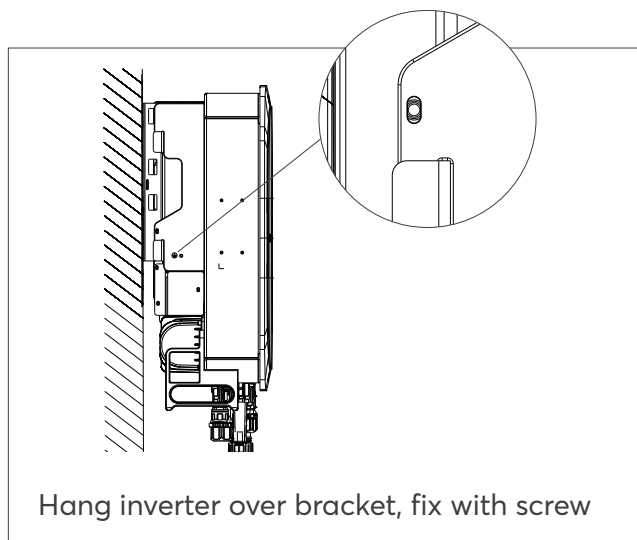
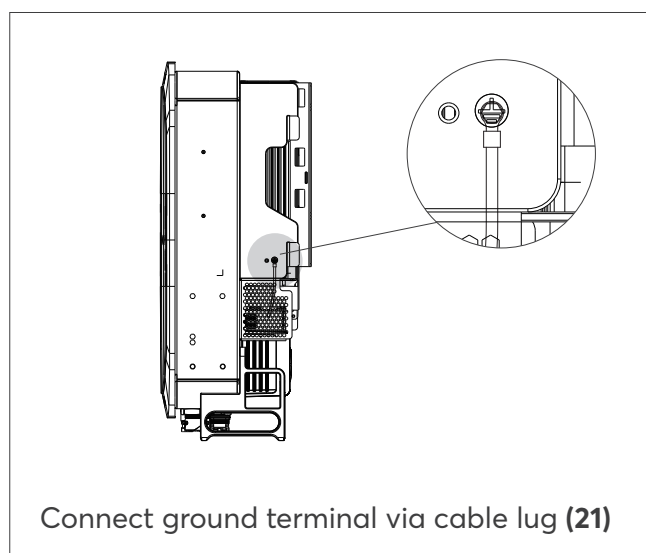
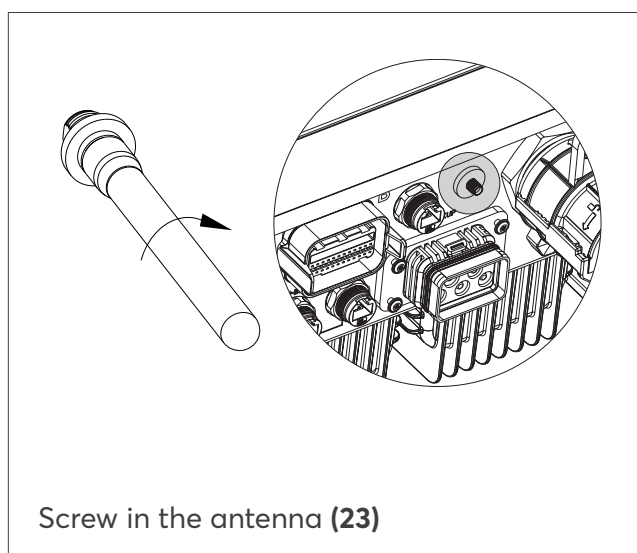


Fix top pack first with fixing bracket **(2)**
then fix packs with screws **(1)**

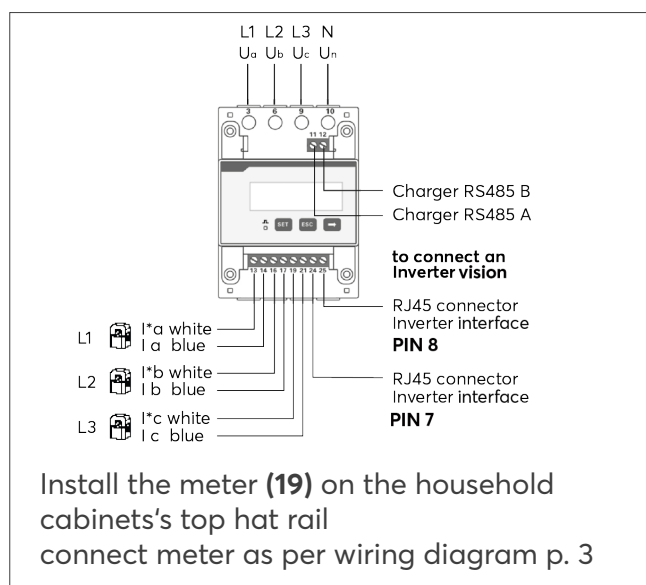
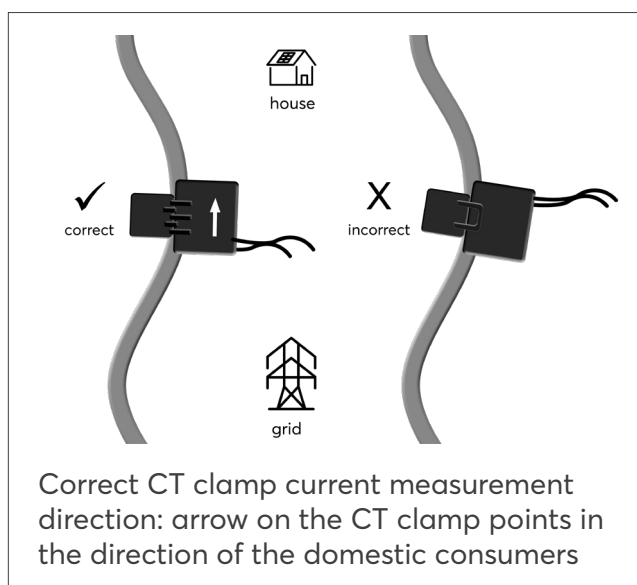


Connect grounding cable **(5)**

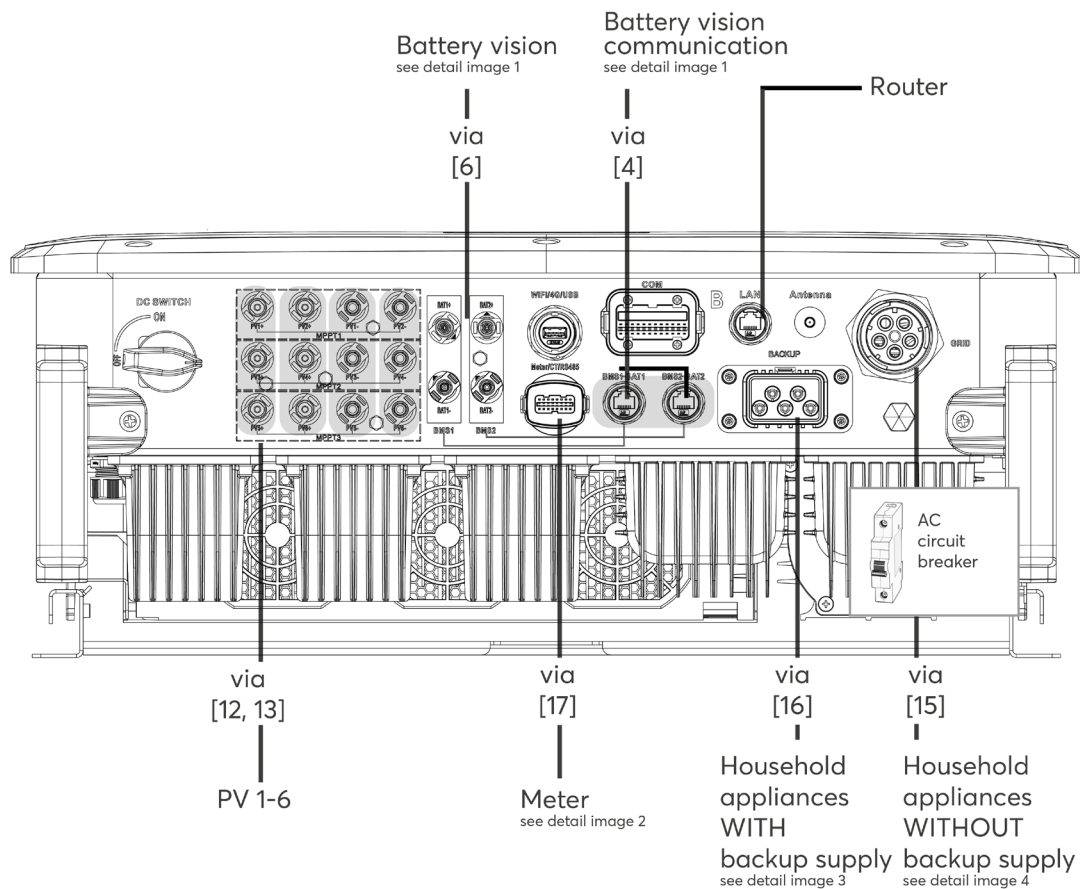
INVERTER ASSEMBLY AND WIRING



METER INSTALLATION AND WIRING



INVERTER WIRING



- | | |
|---|-------------------------------------|
| 4 Communication cable
BMS - Inverter | 13 PV pin contacts |
| 6 DC cable battery | 15 AC connector grid |
| 12 PV connectors
(MC4 Stäubli) | 16 AC connector backup |
| | 17 Communication connector
meter |

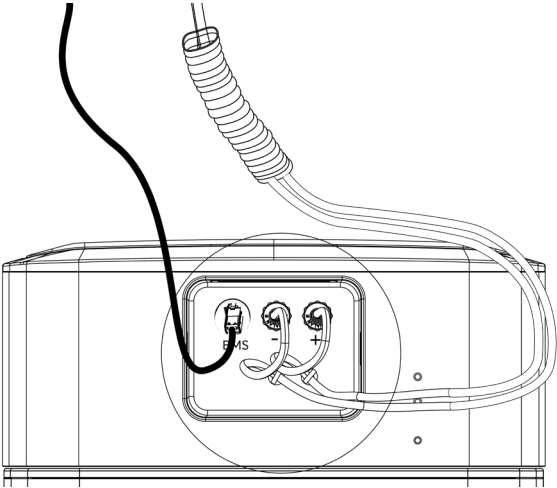
Cable requirements:

- | | |
|-----------------|---|
| PV: | 4 - 6 mm² MC4, Stäubli |
| AC: | 15 kW: 6-10mm² 50 A |
| | 20-25 kW: 10-16mm² 63 A |
| | 30 kW 10-16mm² 80 A |
| Network: | Standard LAN cable |

INVERTER ASSEMBLY AND WIRING

detail 1

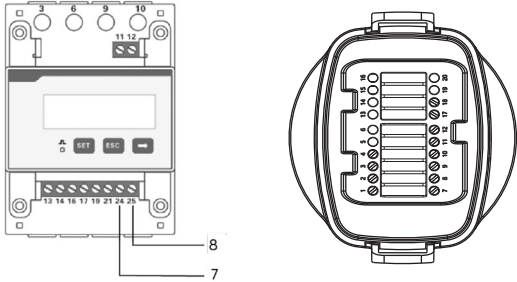
Inverter interfaces
BMS Battery



The diagram shows a side view of an inverter unit. A circular inset highlights the connection terminals on the front panel. A thick black cable labeled 'BMS' is connected to the left terminal. A thick black cable labeled 'Battery' is connected to the right terminal. The cables are bundled together and exit the top of the unit.

Connect Battery (6, 4)

detail 2

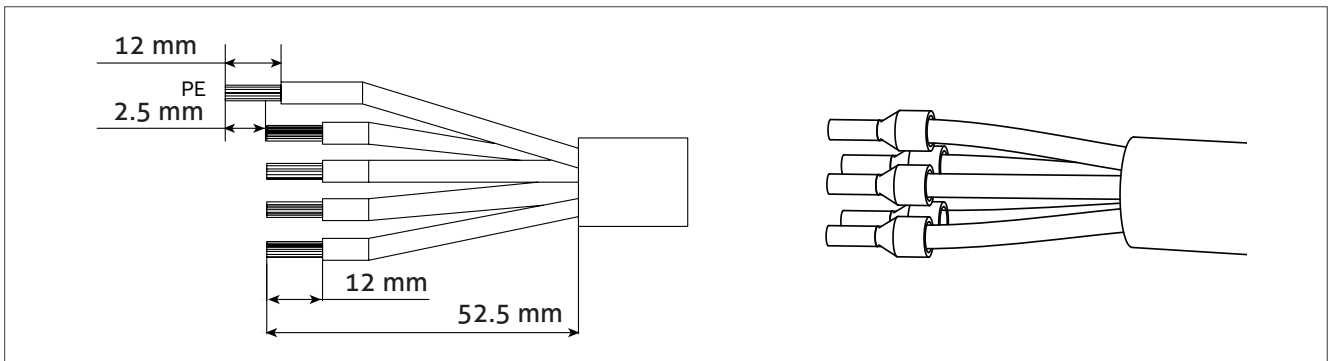


The diagram shows a meter unit and a connector. The meter unit has a display screen and several terminals. A cable labeled '7' is connected to the bottom terminal of the meter. A cable labeled '8' is connected to the bottom terminal of the connector. The connector is a multi-pin plug with 25 pins.

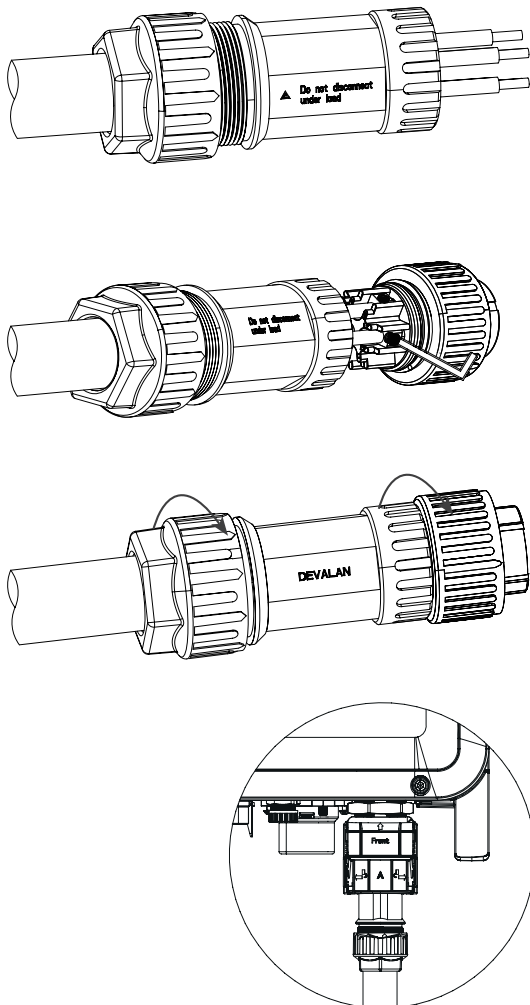
PIN meter	24	25
PIN COM plug for the inverter	7	8

Connect meter (19, 17)

INVERTER ASSEMBLY AND WIRING



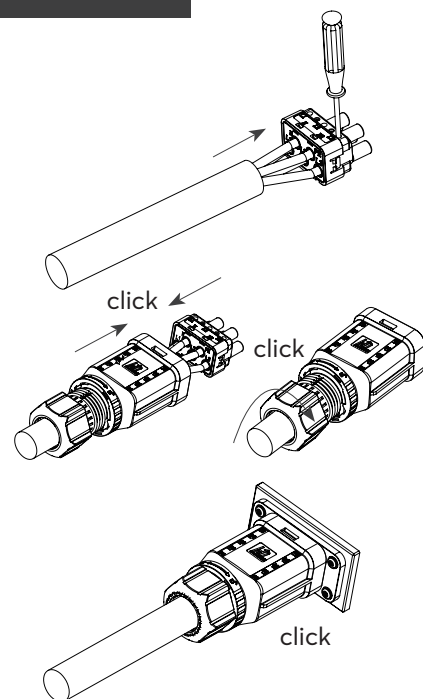
detail 3



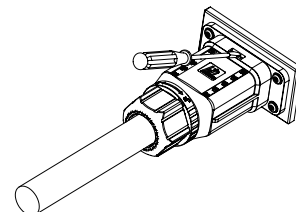
- Feed the cable through the plug (15)
- Install the copper wires into the plug terminals and tighten the screws
- Fix the sleeve, fix the lock nut and plug the connector

If its necessary to open the connector again, use the unlocking tool (22)

detail 4



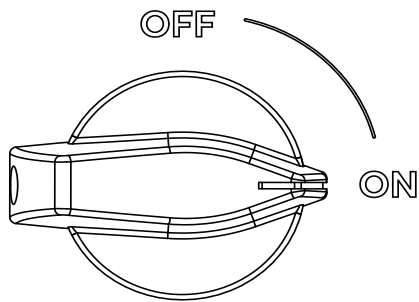
- Disassemble the connector (16)
- Connect the cable ends according to the conductor designation on the plug
- Feed the cable through the plug components
- Reassemble the connector and plug it



If its necessary to open the connector again, use a screwdriver to align the un-lock position

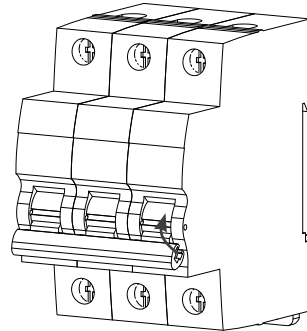
SYSTEM START UP

1



Turn inverter DC switch ON

2



Turn on

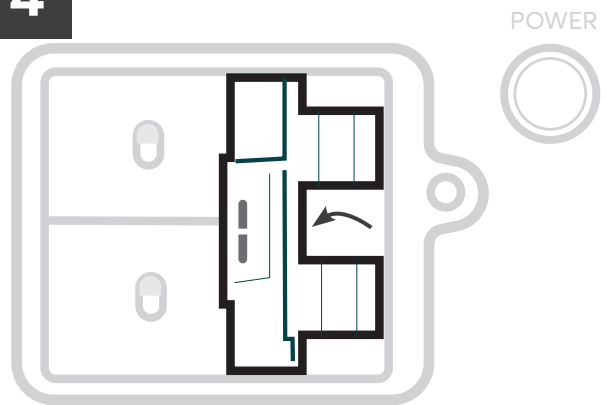
- AC breaker Grid
- AC breaker Backup (if locally required)

3



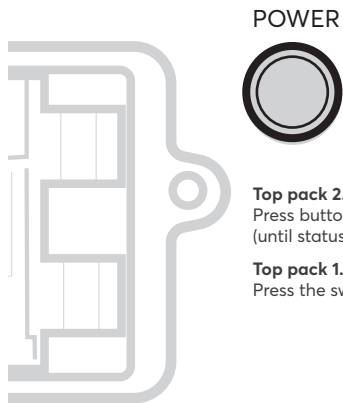
- set grid code for grid safety
 - set the current date & time
- Press inverter confirm button  for 3 sec.
- select START

4



Turn battery DC switch (top pack) ON

5



Top pack 2.0:
Press button for 3 sec
(until status LED lights up)

Top pack 1.0:
Press the switch

Press battery POWER button (top pack)

A password is not required for the first-time configuration of the inverter. When subsequently prompted, the default password is 0000.

Customize the password at the end of commissioning to protect the inverter configuration.

COMMISSIONING WITH THE SOLARWATT PRO APP



Download the SOLARWATT Pro app and login with your SOLARWATT Pro portal account

SOLARWATT Pro app commissioning features:

Inverter vision

- Make the device connectable via WiFi
- CEI 0-21 selftest (Italy)
- Set Cos φ

Charger vision

- Make the device connectable via WiFi
- RFID authorization
- Set maximum charging current (A)
- Setup load management (in preparation)

The SOLARWATT Pro app lets you commission the inverter over Bluetooth to let you use these features

SOLARWATT Pro app commissioning features:

Inverter vision

- Make the device connectable via WiFi
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Charger vision

- Make the device connectable via WiFi
- RFID authorization
- Set maximum charging current (A)
- Setup load management (in preparation)

The SOLARWATT Pro app lets you commission the inverter over Bluetooth to let you use these features

TURNING THE SYSTEM OFF

1



Press inverter confirm button  for 3 sec.
• select STOP

2



POWER

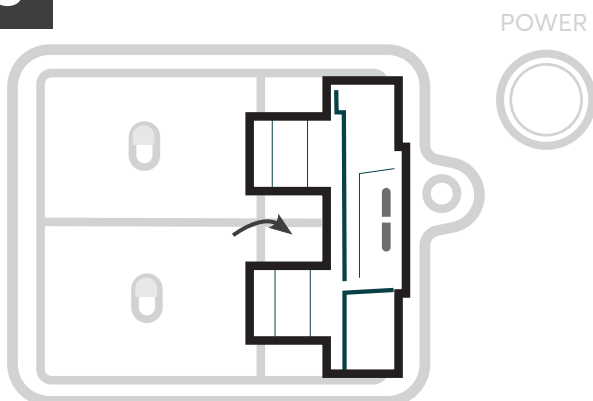


Top pack 2.0:
Press button for 5 sec
(until status LED turns off)

Top pack 1.0:
Press the switch

Press battery POWER button (top pack)

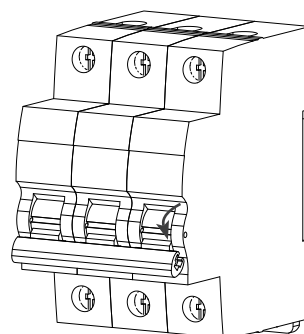
3



POWER

Turn battery DC switch (top pack) OFF

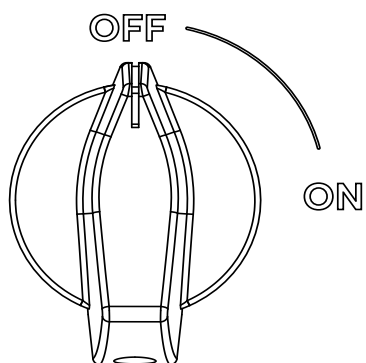
4



Turn off

- AC breaker Grid
- AC breaker Backup (if locally required)

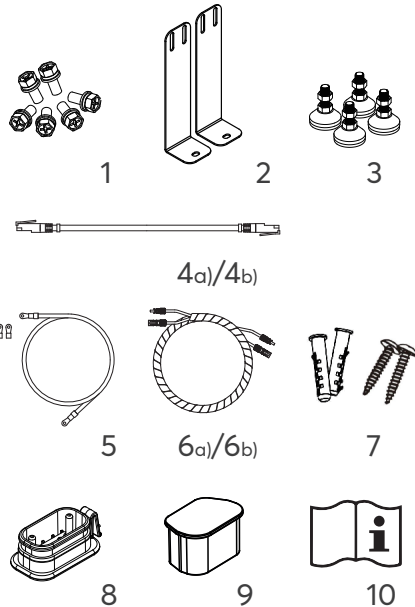
5



Turn inverter DC switch OFF

Battery vision packs

Lieferumfang top pack



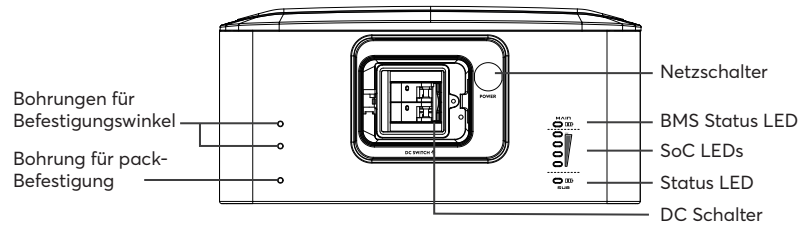
- 1 Schrauben,
2 für pack-Fixierung, 4 für Wandhalter-
befestigung
- 1a) M6 (top pack 2.0)
- 1b) M5 (top pack 1.0)
- 2 Befestigungswinkel
- 3 Standfüße
- 4 Komm. kabel, BMS - Inverter
- 4a) 3,0 m (bei pack 2.0)
- 4b) 1.5 m (bei pack 1.0)
- 5 Erdungskabel
mit 2 zusätzlichen Kabelschuhen
- 6 DC-Kabel Batterie
- 6a) 3,0 m (bei pack 2.0)
- 6b) 1.5 m (bei pack 1.0)
- 7 2 Schrauben für
für Wandbefestigung
- 8 Brückenstecker
- 9 Schutzabdeckung
für Anschlüsse (nur enthalten bei pack 1.0)
- 10 Sicherheitshinweise

Lieferumfang pack

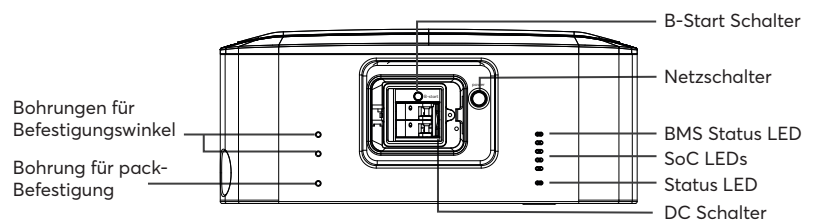


- 23 Schrauben
für pack Befestigung
- 1a) M6 (pack 2.0)
- 1b) M5 (pack 1.0)
- 24 Sicherheitshinweise

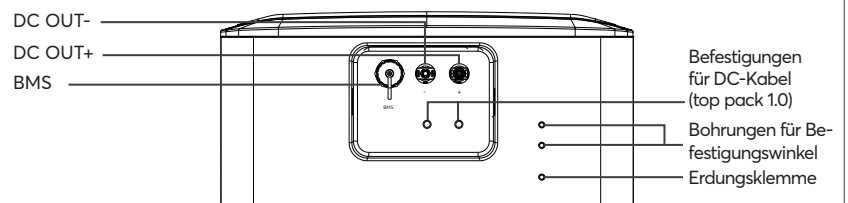
Ansicht von links top pack 2.0



Ansicht von links top pack 1.0

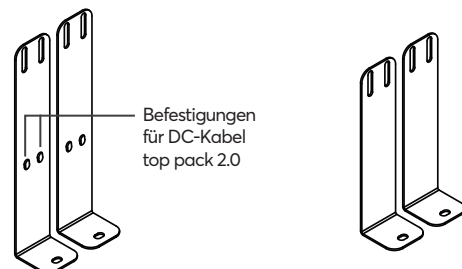
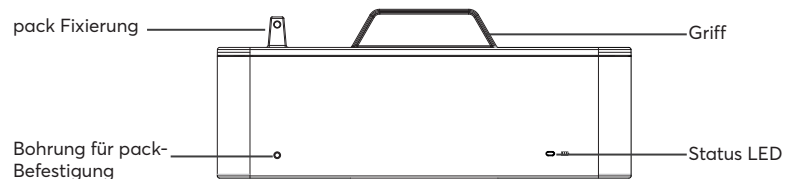


Ansicht von rechts



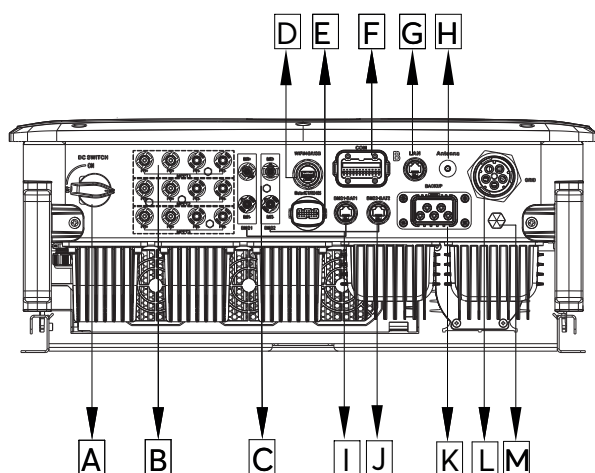
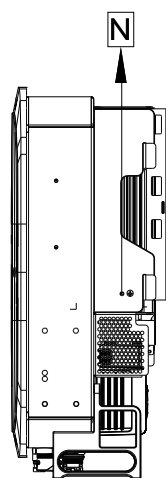
Befestigungswinkel top pack 2.0

Befestigungswinkel top pack 1.0



AUFBAU UND LIEFERUMFANG

Inverter vision max 1.0



A DC SCHALTER

B PV 1-6

C BATTERIEANSCHLUSS

D WIFI/4G/USB

E Zähler/CT/RS485

F KOMM. CLUSTER

G LAN

H ANTENNE

I BMS 1

J BMS 2

K BACKUP

L GRID

M ANSCHLUSSABDECKUNG

N ERDUNG



11



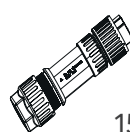
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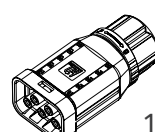
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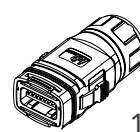
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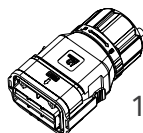
15



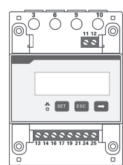
16



17



18



19



20



21



22



23



24

11 Wandhalter

12 PV-Steckverbinder (MC4 Stäubli)

13 PV-Pin-Kontakte

14 Schrauben und Dübel

Wandbefestigung, WR Befestigung (M4),
Erdung (M5)

15 AC Steckverbinder grid

16 AC Steckverbinder backup

17 Kommunikationssteckverbinder
Zähler

18 Kommunikationssteckverbinder
Cluster

19 Zähler mit CT-Klemmen

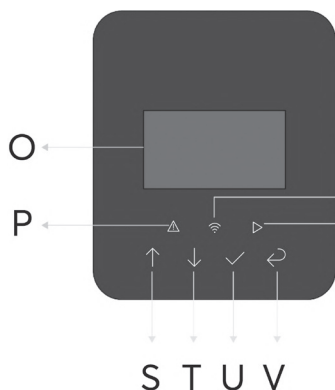
20 RJ45 outdoor Adaptoren

21 Erdungsklemme

22 Verriegelung f. Netzanschluss

23 Antenne

24 Schnellstartanleitung
Sicherheitshinweise



O LC display

P rot: Fehler

Q blau: WLAN/LAN Status

R grün: betriebsbereit

S hoch; Wert erhöhen

T runter; Wert verringern

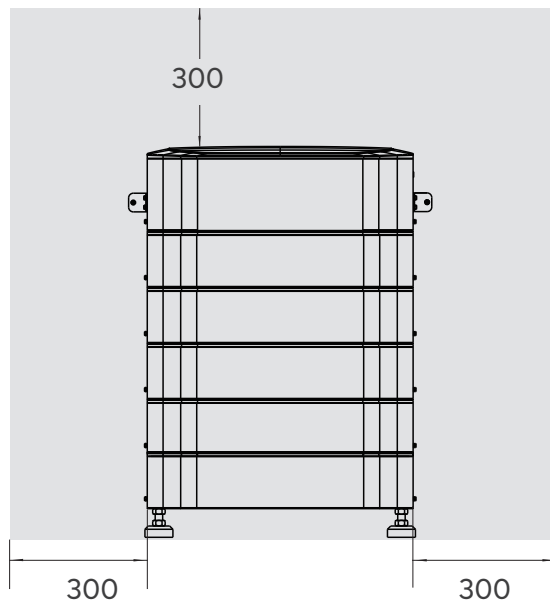
U bestätigen

V zurück/beenden

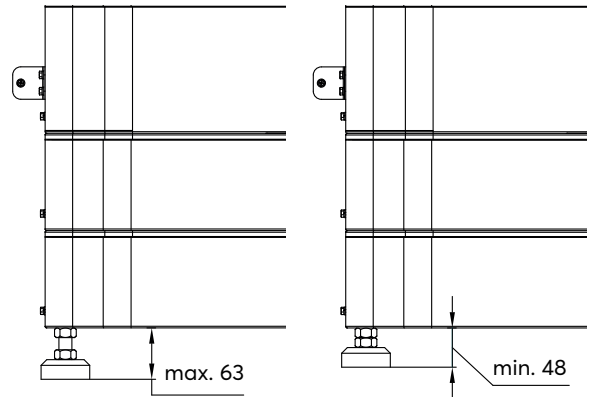
Zusätzlich benötigt:

- Kommunikationskabel (2-adri-
ges RS485-Kabel) für die Ver-
bindung mit dem Zähler
- DC- und AC-Kabel für den
Wechselrichter
- LAN-Kabel für den Wechselri-
chter (optional)
- Erdungskabel für den Wechsel-
richter
- Leitungsschutzschalter

ABMESSUNGEN BATTERY VISION [MM]



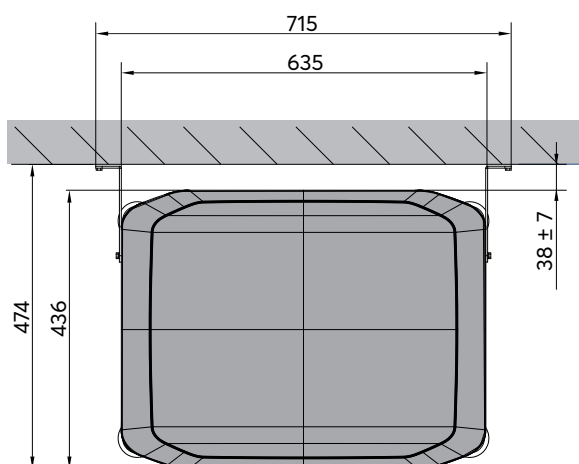
Minimaler Platz für die Installation
(min. Arbeitsbereich nach vorn: 1.200)



Flexibler Abstand zum Boden

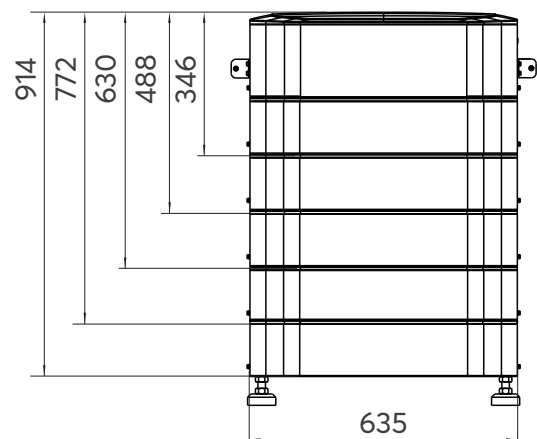
Battery vision 2.0

(Ansicht von oben)



Installationsbreite und -tiefe
Abstand zur Wand: 38 mm

Battery vision 2.0

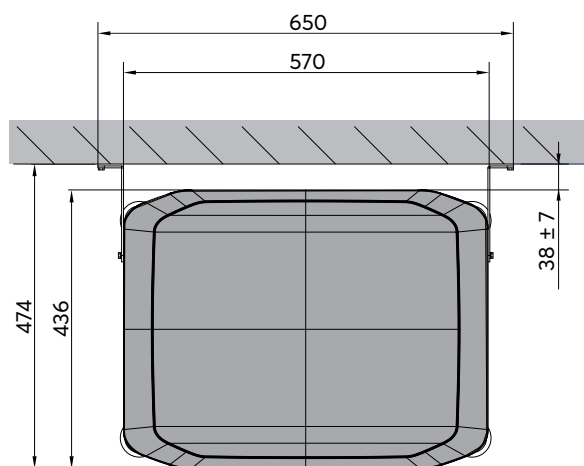


Installationshöhe (ohne Standfüße)

DIMENSIONS BATTERY VISION [MM]

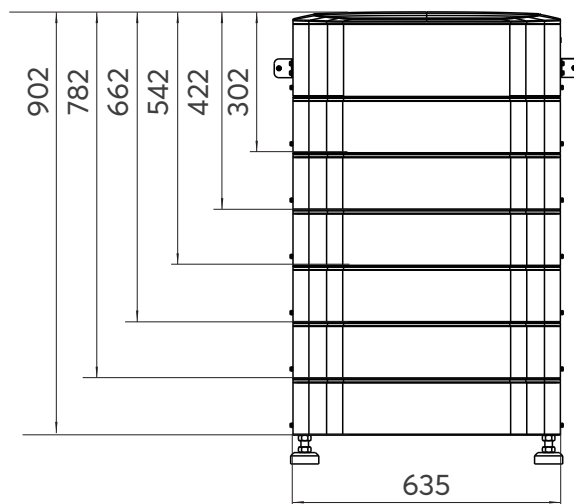
Battery vision 1.0

(Ansicht von oben)



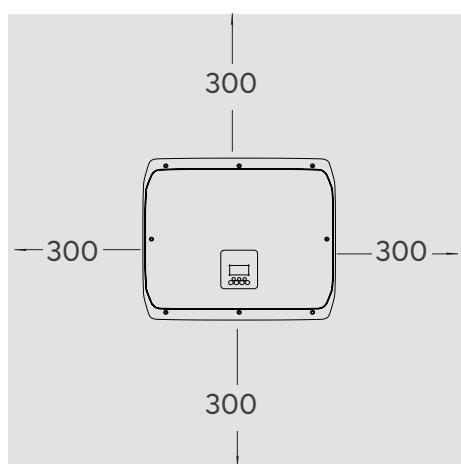
Installationsbreite und -tiefe
Abstand zur Wand: 38 mm

Battery vision 1.0

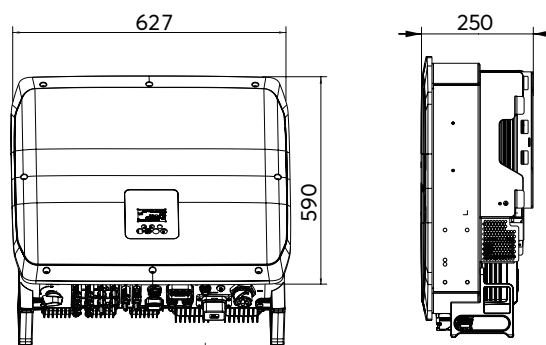


Installationshöhe (ohne Standfüße)

ABMASSE INVERTER VISION MAX [MM]



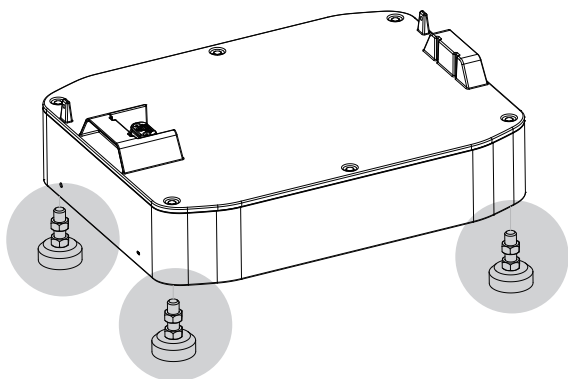
Minimaler Platz für die Installation
(min. Arbeitsbereich nach vorn: 1.200)



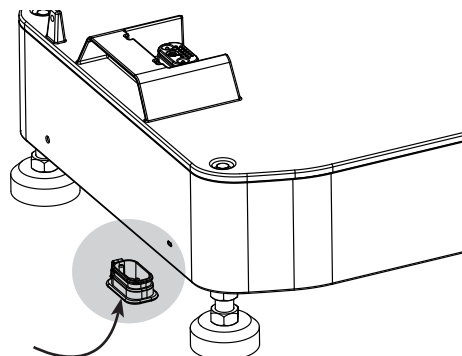
1,5 m
Abstand zur
Batterie

Kabellänge zur Verbin-
dung mit der Batterie:
pack 2.0: 3,0 m
pack 1.0: 1,5 m

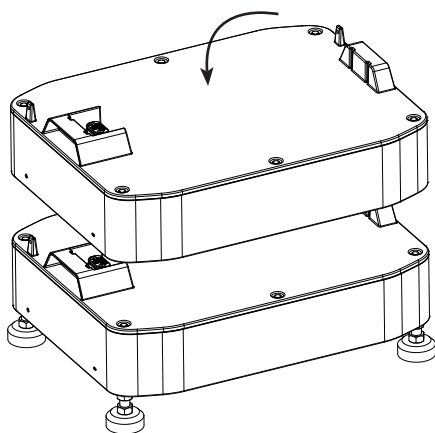
MONTAGE UND VERKABELUNG BATTERY PACKS



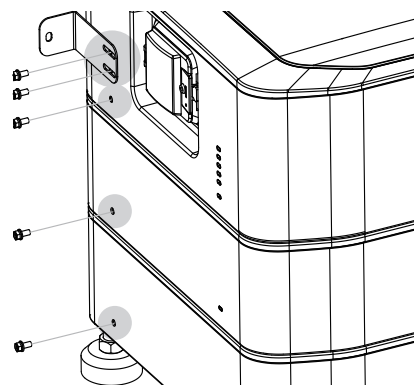
4 Standfüße **(3)** am unteren Battery pack anbringen
(Standfüße sind Teil der Verpackung des top packs)



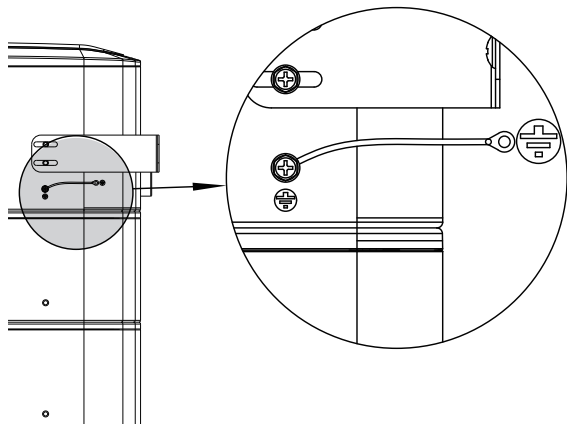
Brückenstecker **(8)** anbringen
(Brückenstecker ist Teil der Verpackung des top packs)



packs aufstapeln, top pack als letztes

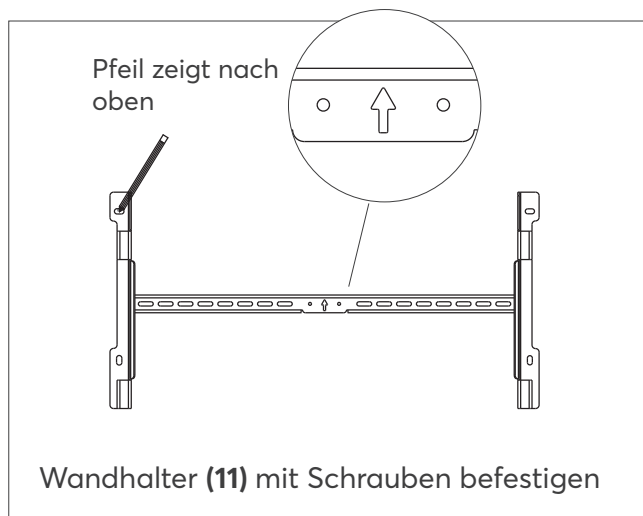
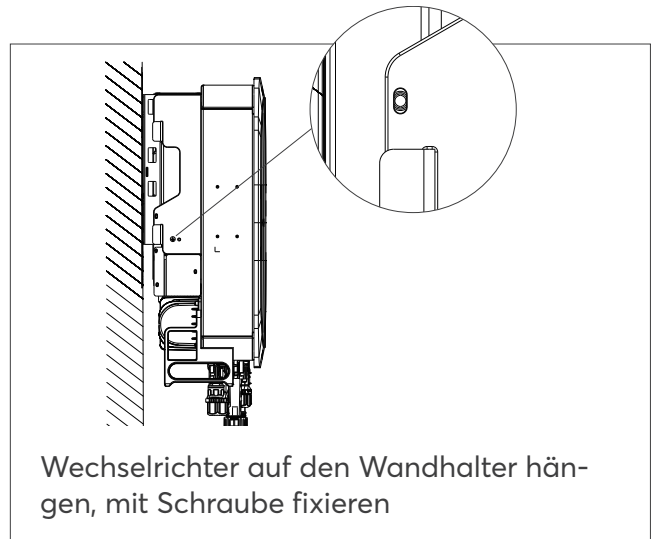
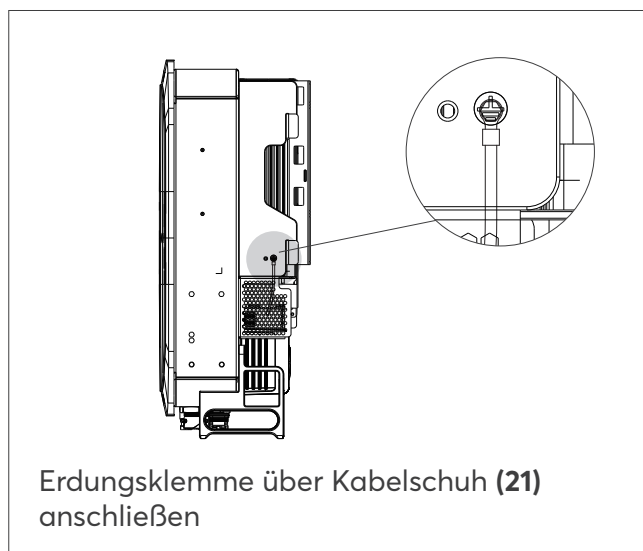
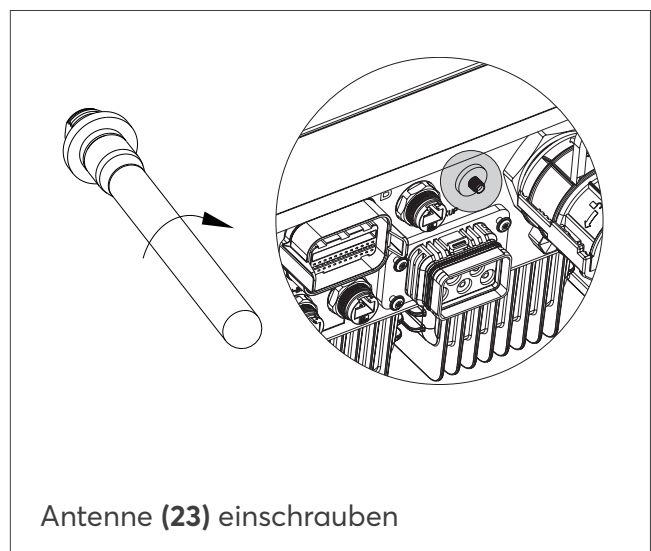


top pack erst mit Befestigungswinkeln **(2)** fixieren, packs mit Schrauben **(1)** fixieren

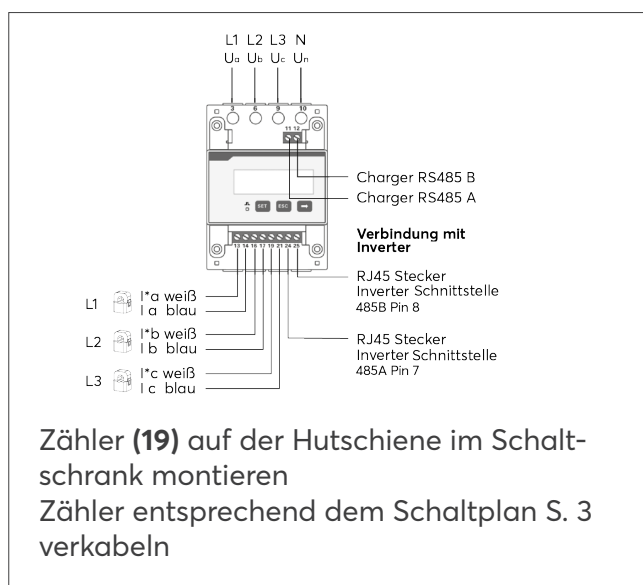
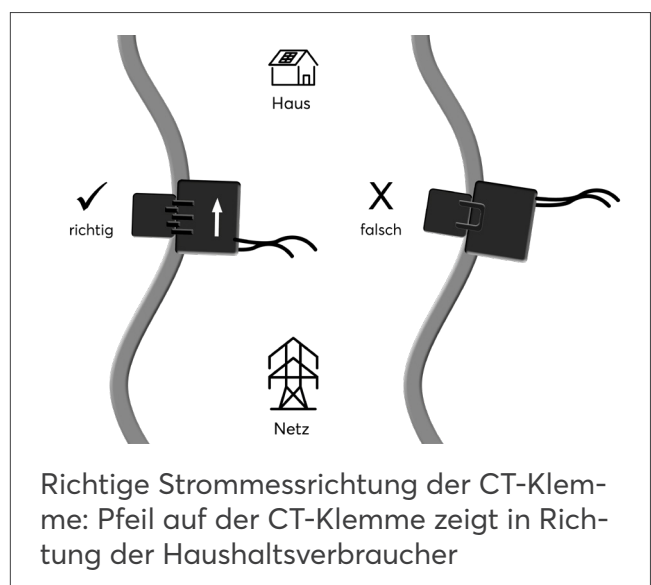


Erdungskabel **(5)** anschließen

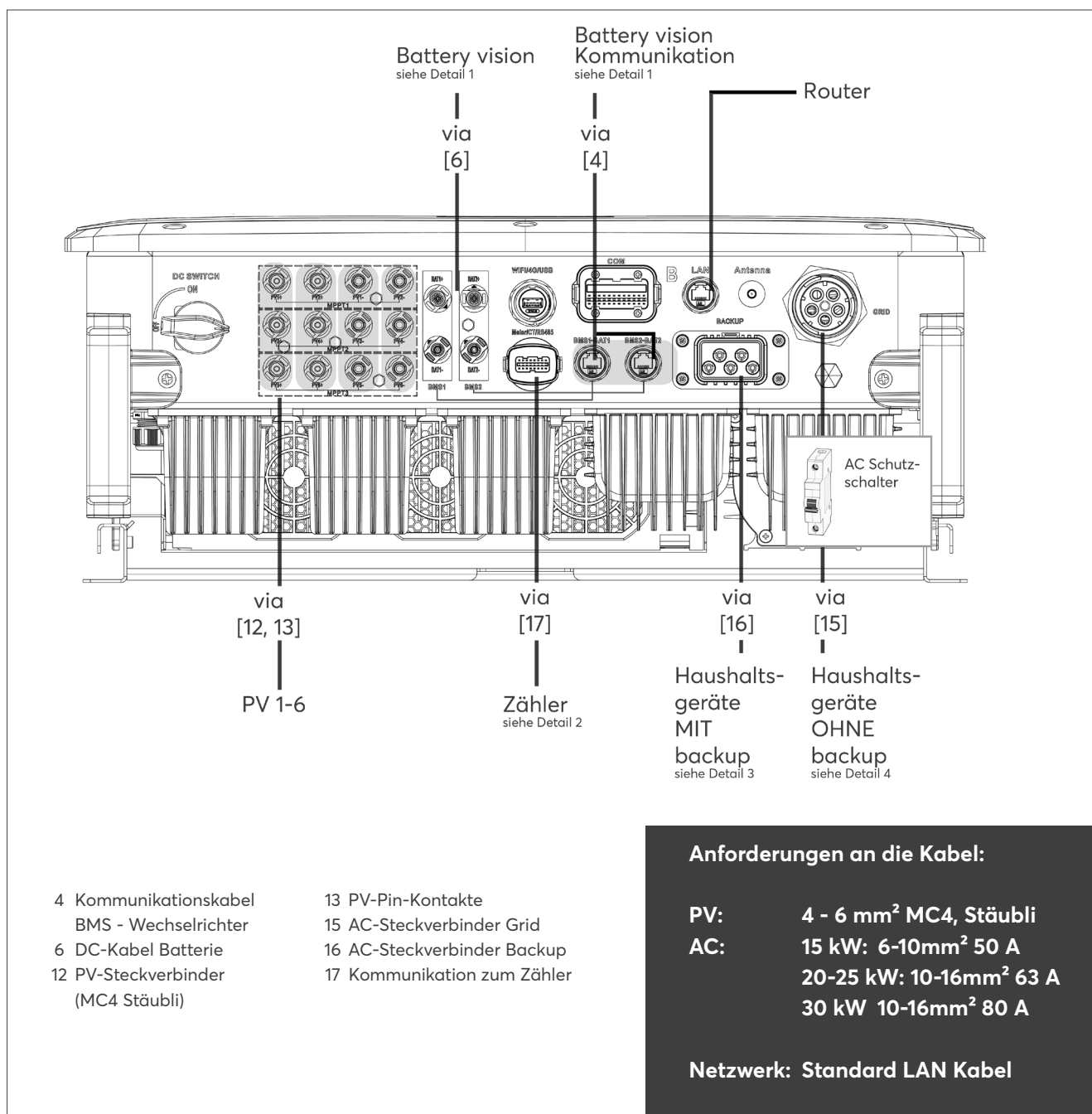
MONTAGE UND VERKABELUNG INVERTER



ZÄHLER INSTALLATION UND VERKABELUNG



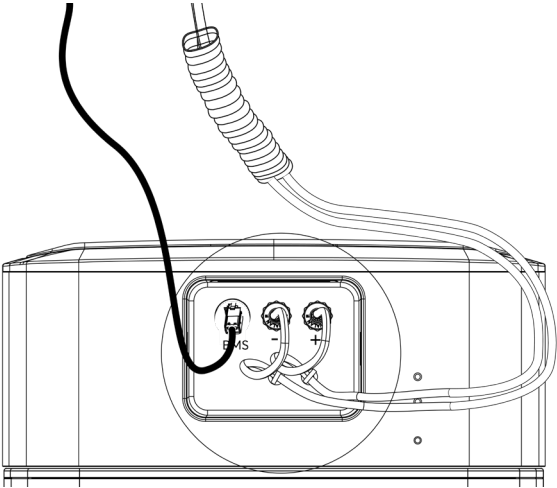
WECHSELRICHTER VERKABELUNG



- | | |
|---|-----------------------------|
| 4 Kommunikationskabel
BMS - Wechselrichter | 13 PV-Pin-Kontakte |
| 6 DC-Kabel Batterie | 15 AC-Steckverbinder Grid |
| 12 PV-Steckverbinder
(MC4 Stäubli) | 16 AC-Steckverbinder Backup |
| | 17 Kommunikation zum Zähler |

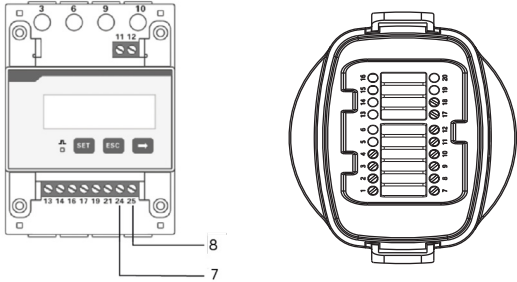
Detail 1

Wechselrichter Schnittstellen
BMS Battery



Batterie verbinden (6, 4)

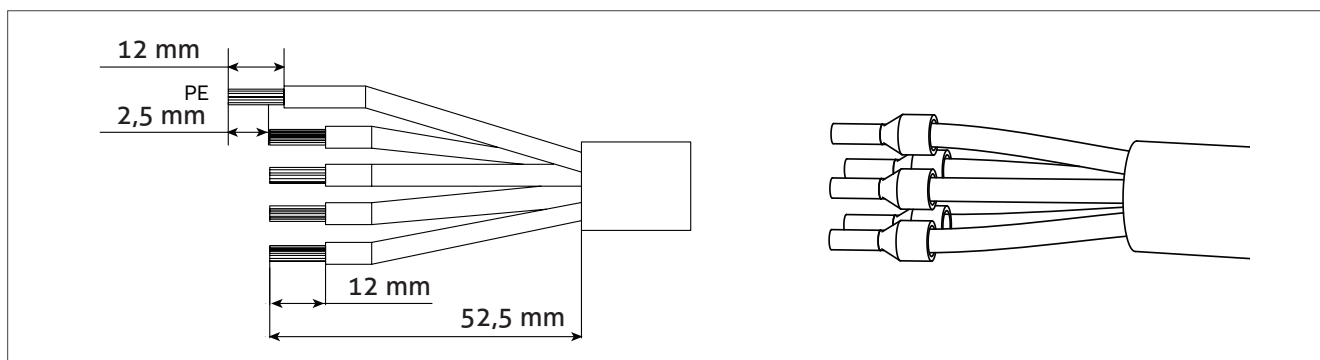
Detail 2



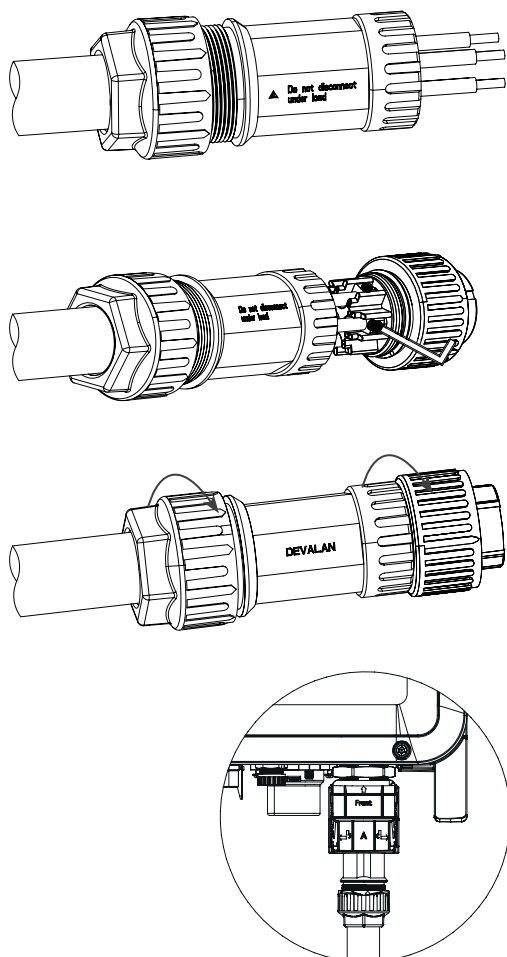
PIN meter	24	25
PIN COM plug for the inverter	7	8

Zähler verbinden (19, 17)

WECHSELRICHTER VERKABELUNG



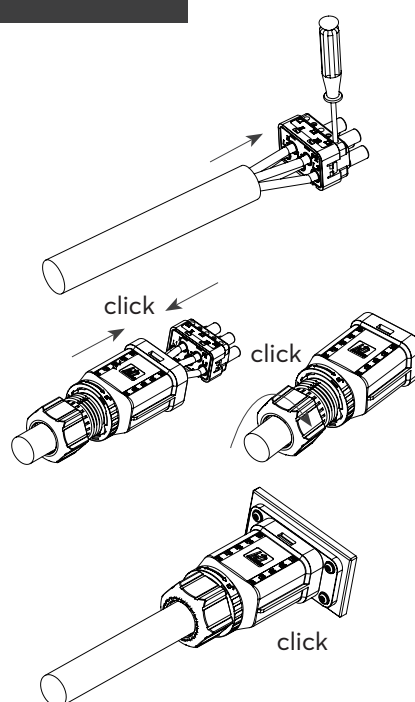
Detail 3



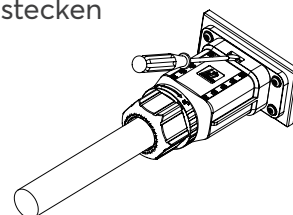
- Kabel durch den Stecker **(15)** führen
- Kupferdrähte in die Steckerklemmen führen und die Schrauben festziehen
- Hülle und Kontermutter festziehen und den Stecker anschließen

Falls der Stecker erneut geöffnet werden muss, verwenden Sie das Entriegelungswerkzeug **(22)**.

Detail 4



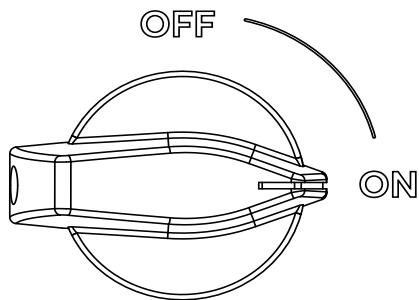
- Stecker **(16)** auseinanderbauen
- Kabelenden entsprechend der Aderkennzeichnung am Stecker anschließen
- Kabel durch die Steckerkomponenten führen
- Stecker wieder zusammenbauen und einstecken



Falls der Stecker erneut geöffnet werden muss, die Entriegelungsposition mit einem Schraubendreher ausrichten.

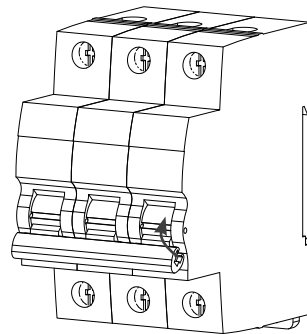
SYSTEMSTART

1



DC-Schalter am Wechselrichter anschalten

2



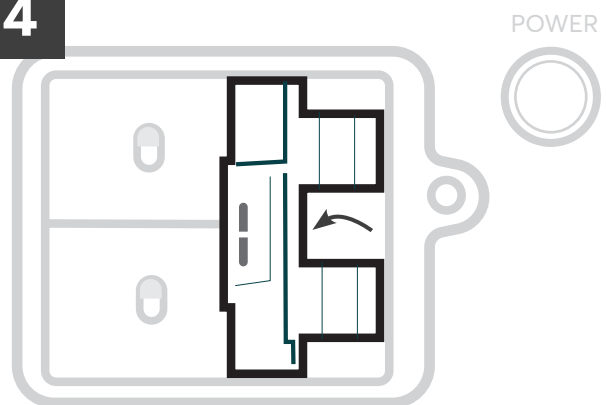
- AC-Sicherung Netz und
- AC-Sicherung backup (falls nach den örtlichen Vorgaben notwendig und vorhanden) einschalten

3



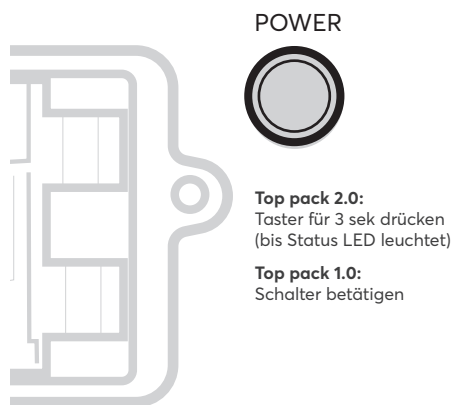
- Gridcode für Netzsicherheit einstellen
 - Datum und Zeit einstellen
- Bestätigen Button am Wechselrichter ☒ für 3 Sekunden drücken
- START wählen

4



DC-Schalter an der Batterie (top pack) anschalten

5



POWER button an der Batterie (top pack) betätigen

Für die Erstinstallation benötigen Sie kein Wechselrichter-Passwort. Für spätere Einstellungen lautet das Passwort 0000.

Passen Sie das Passwort am Ende der Inbetriebnahme an, um die Konfiguration des Wechselrichters zu sichern.

VERBINDUNG MIT DER SOLARWATT PRO APP



SOLARWATT Pro app herunterladen und mit dem SOLARWATT Pro-account einloggen

SOLARWATT Pro app Inbetriebnahmefunktionen:

Inverter vision

- das Gerät mit dem WLAN verbinden
- CEI 0-21 Selbsttest (Italien)
- Cos φ einstellen

Charger vision

- das Gerät mit dem WLAN verbinden
- RFID-Autorisierung bearbeiten
- Maximalen Ladestrom (A) einstellen
- Lastmanagement einrichten (Funktion in Vorbereitung)

Wechselrichter-Gerät über die SOLARWATT Pro app suchen und installieren, um diese Funktionen auszuführen

SYSTEM AUSSCHALTEN

1



Bestätigen Button am Wechselrichter für 3 Sekunden drücken

- STOP wählen

2



POWER

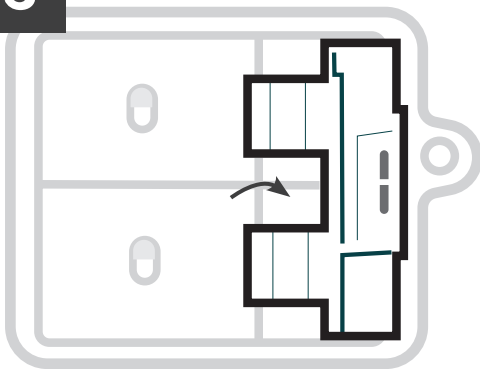


Top pack 2.0:
Taster für 5 sek drücken
(bis die Status LED erlischt)

Top pack 1.0:
Schalter betätigen

POWER button an der Batterie (top pack) betätigen

3

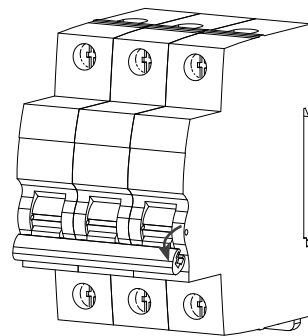


POWER



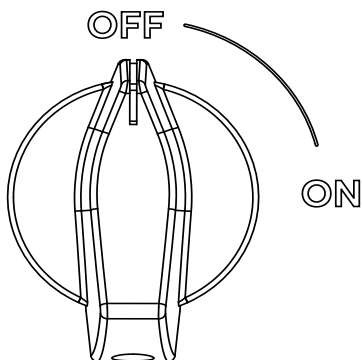
DC-Schalter an der Batterie (top pack) ausschalten

4



- AC-Sicherung Netz und
- AC-Sicherung backup (falls nach den örtlichen Vorgaben notwendig und vorhanden) ausschalten

5

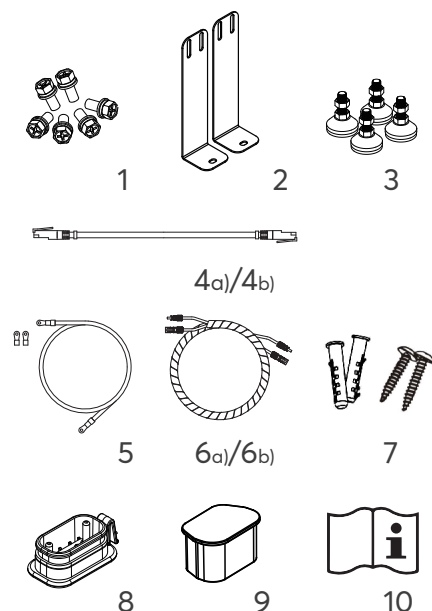


DC-Schalter am Wechselrichter ausschalten

COMPOSITION DU SYSTÈME ET CONTENU DE LA LIVRAISON

Battery vision packs

Contenu de la livraison top pack



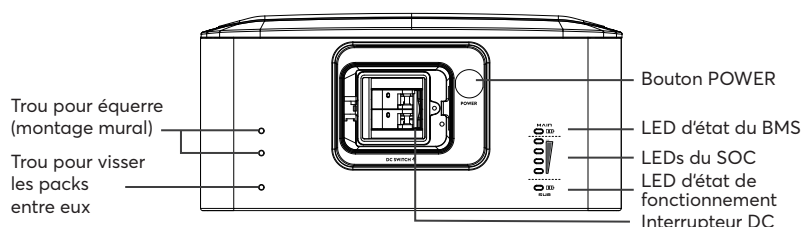
- 1 Vis
2 pour visser les packs et
4 pour les équerres de montage
- 1a) M6 (top pack 2.0)
- 1b) M5 (top pack 1.0)
- 2 Équerres de montage
- 3 Pied de support
- 4 Câble de comm.
BMS-Inverter
- 4a) 3,0 m (pack 2.0)
- 4b) 1.5 m (pack 1.0)
- 5 Câble de mise à la terre
(avec 2 cosses suppl.)
- 6 Câble DC batteries
- 6a) 3,0 m (pack 2.0)
- 6b) 1.5 m (pack 1.0)
- 7 2 vis à visser au mur
- 8 Connecteur jumper
- 9 Couvercle de protection
du connecteur
(uniquement inclus dans le pack 1.0)
- 10 Consignes de sécurité

Contenu de la livraison pack

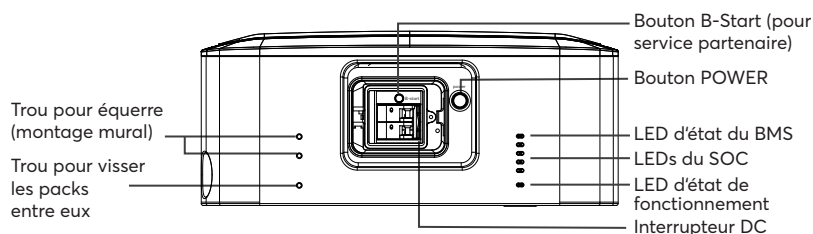


- 23 Vis pour visser les packs
et les équerres de montage
- 23a) M6 (pack 2.0)
- 23b) M5 (pack 1.0)
- 24 Consignes de sécurité

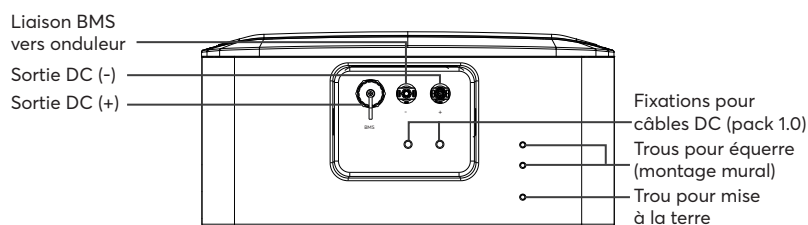
Vue du côté gauche top pack 2.0



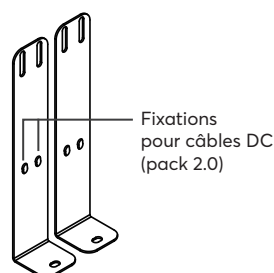
Vue du côté gauche top pack 1.0



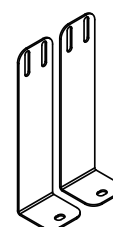
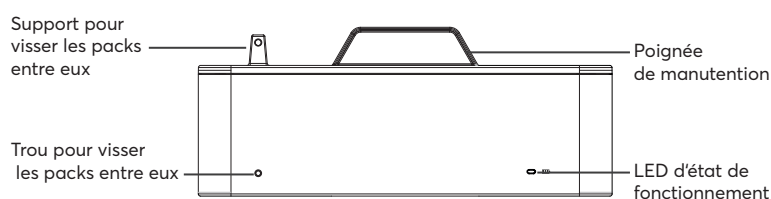
Vue du côté droit



Équerres de montage top pack 2.0

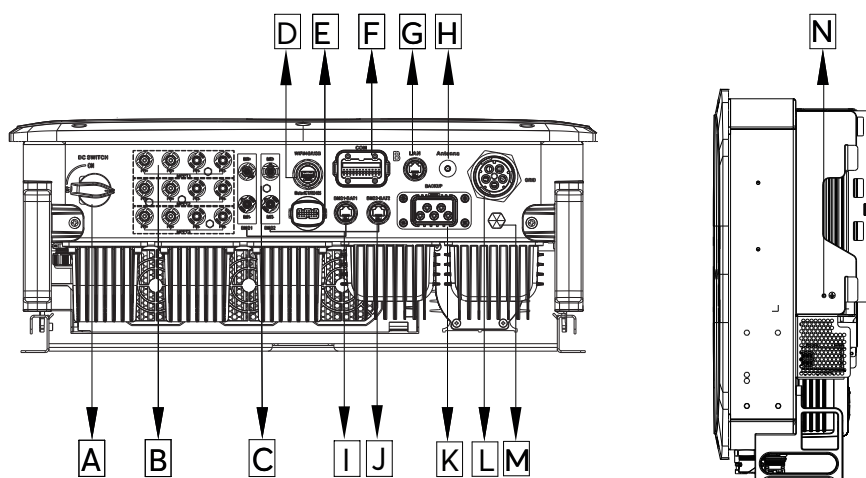
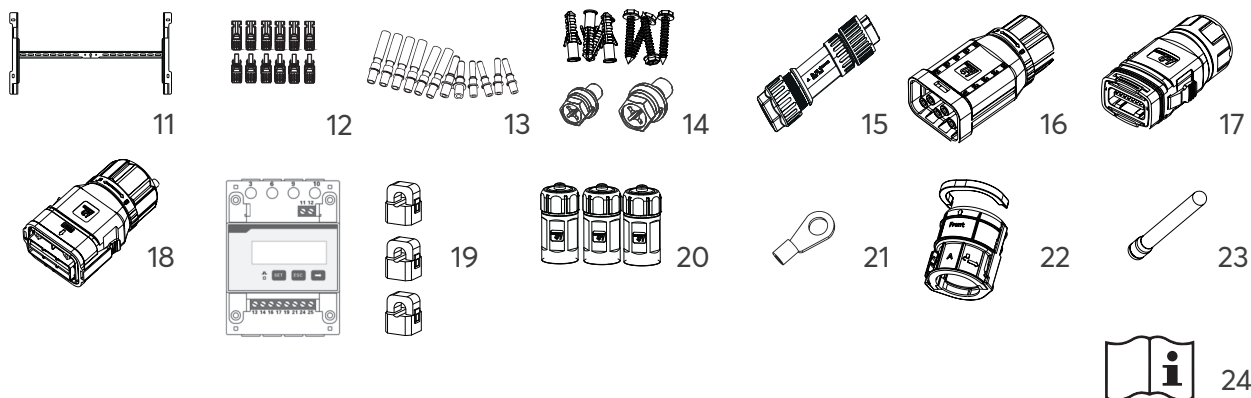


Équerres de montage top pack 1.0



COMPOSITION DU SYSTÈME ET CONTENU DE LA LIVRAISON

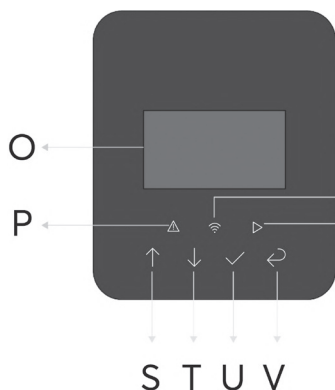
Inverter vision max 1.0



- 11 Support de montage
- 12 Connecteurs PV (MC4 Stäubli)
- 13 Cosses des connecteurs PV
- 14 Vis et chevilles
fixation murale, fixation pour onduleur (M4),
mise à la terre (M5)
- 15 Connecteur AC grid

- 16 Connecteur AC backup
- 17 Connecteur communication compteur
- 18 Connecteur communication cluster
- 19 Compteur avec pinces TC
- 20 Adaptateurs extérieurs RJ45

- 21 Cosse pour mise à la terre
- 22 Verrouillage pour racc. Grid
- 23 Antenne
- 24 Guide de démarrage rapide

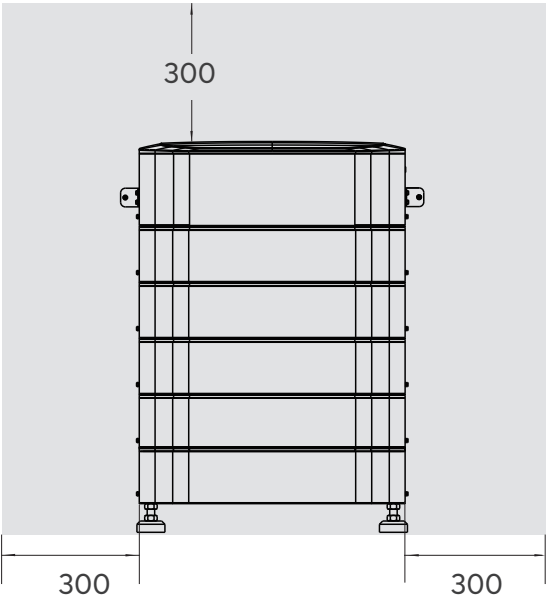


- O Affichage LCD
- P Rouge : défaut
- Q Bleu : activité du WiFi/Ethernet
- R Vert : état opérationnel
- S Monter : augmenter la valeur
- T Descendre : diminuer la valeur
- U Confirmer
- V Retour/sortie

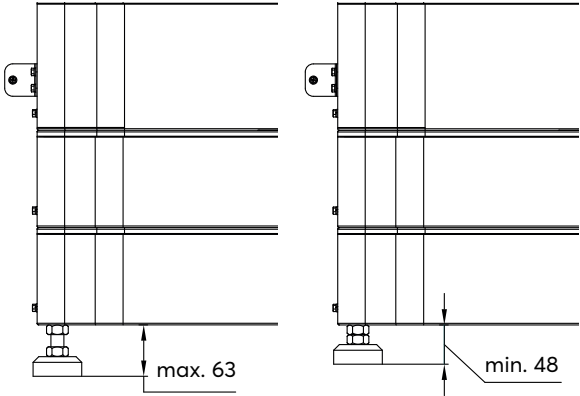
Équipement supp. requis :

- Câble de communication (RS485 2 fils) pour la liaison avec le compteur Chint (METER)
- Câble DC et AC pour l'onduleur
- Câble LAN pour l'onduleur (en option)
- Câble de mise à la terre de l'onduleur
- Disjoncteur

DIMENSIONS DE LA BATTERY VISION [MM]



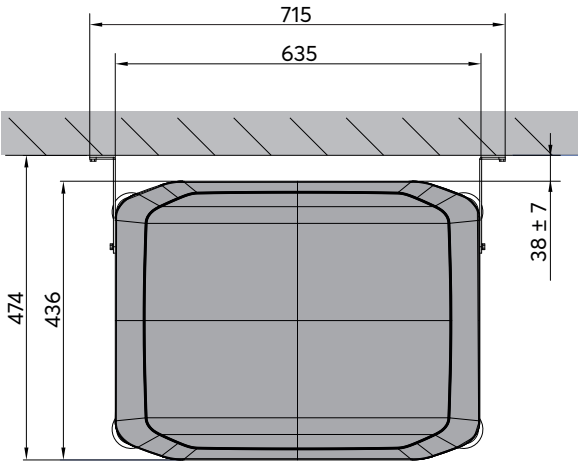
Espace d'installation minimum
(Distance de travail min. à l'avant : 1.200)



Distance ajustable par rapport au sol

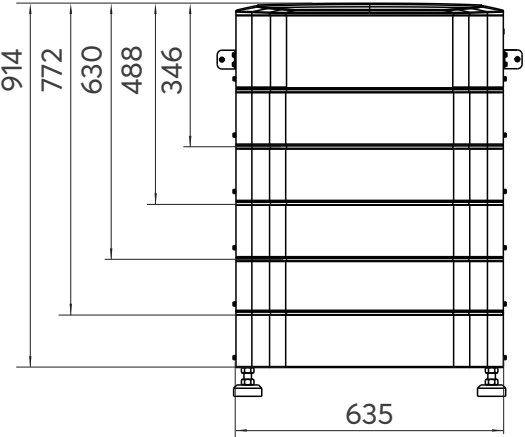
Battery vision 2.0

(vue du dessus)



Largeur et profondeur du système
Distance du mur : 38 mm

Battery vision 2.0

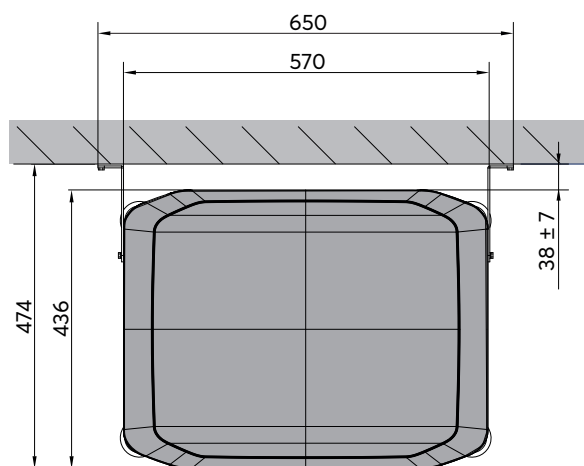


Hauteur du système de batteries
(sans pieds)

DIMENSIONS DE LA BATTERY VISION [MM]

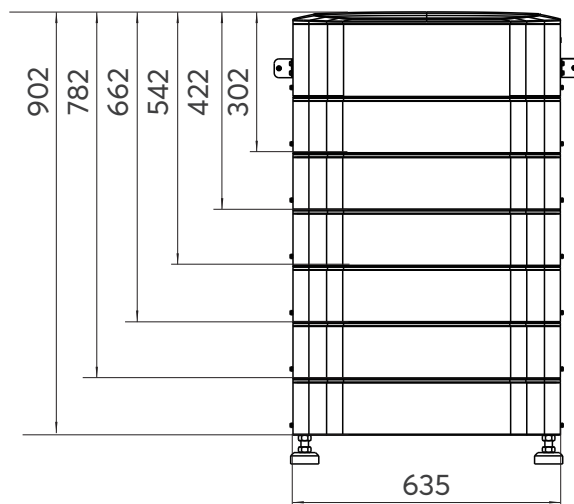
Battery vision 1.0

(vue du dessus)



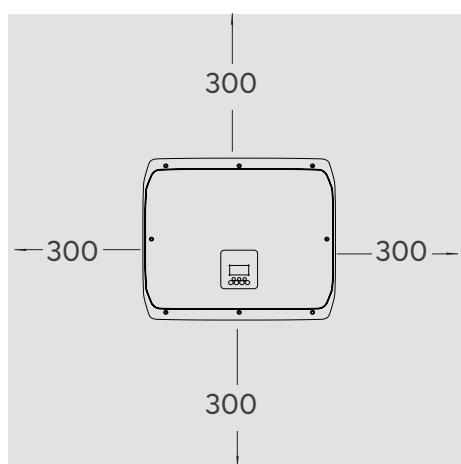
Largeur et profondeur du système
Distance du mur : 38 mm

Battery vision 1.0

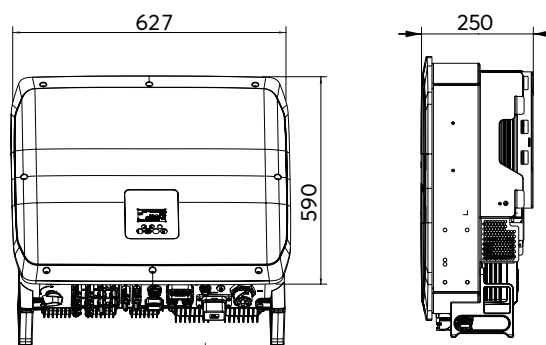


Hauteur du système de batteries
(sans pieds)

DIMENSIONS DE L'ONDULEUR INVERTER VISION MAX [MM]



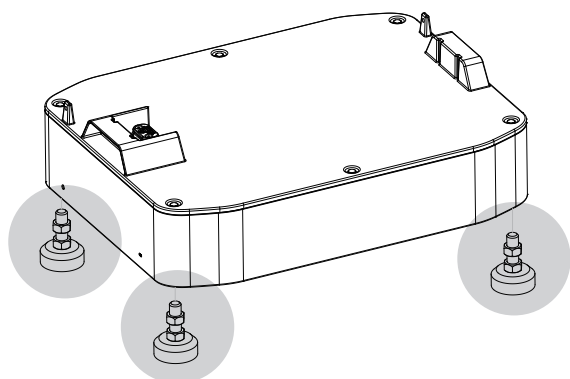
Espace d'installation minimum
(surface de travail min. devant : 1.200)



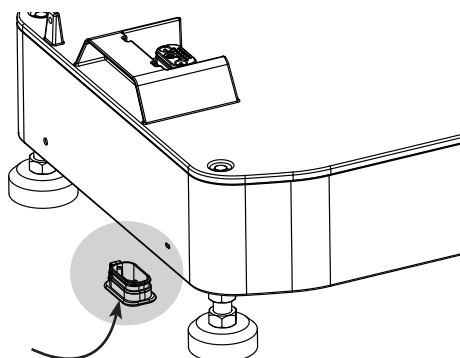
Distance
max de
1,5 m par
rapport à la
batterie

Longueur du
câble de raccordement
à la batterie :
pack 2.0 : 3,0 m
pack 1.0 : 1,5 m

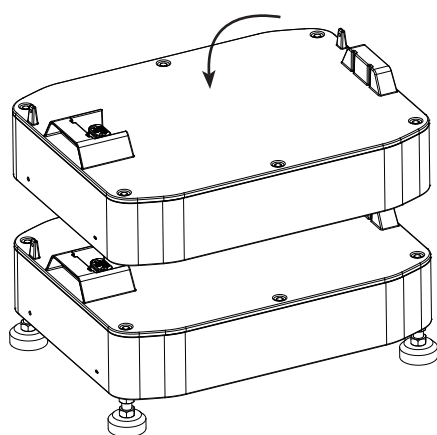
MONTAGE ET CÂBLAGE DES PACKS BATTERIES



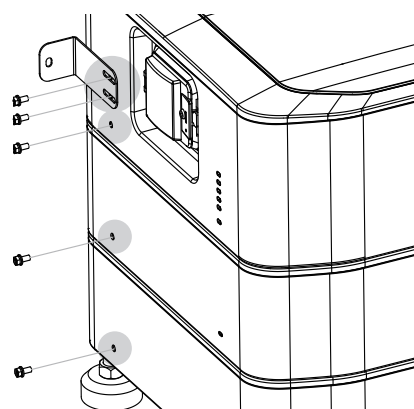
Monter les quatre pieds (3) sur le premier module batterie du bas
(note: les pieds supports sont fournis dans la boîte du top pack)



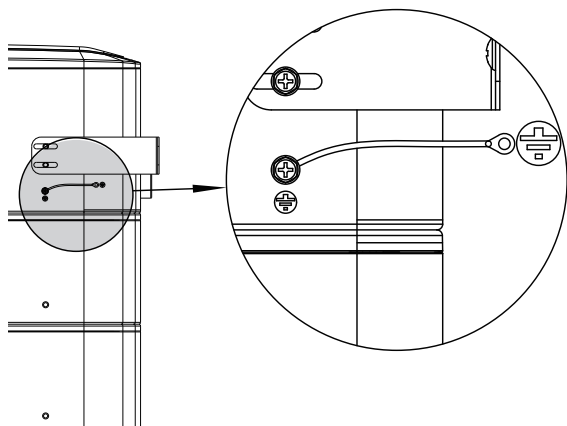
Insérer le connecteur jumper (8) sous le premier module batterie du bas
(note : le connecteur est fournie dans la boîte du top pack)



Empiler les packs batteries jusqu'au dernier qui doit être le **top pack**

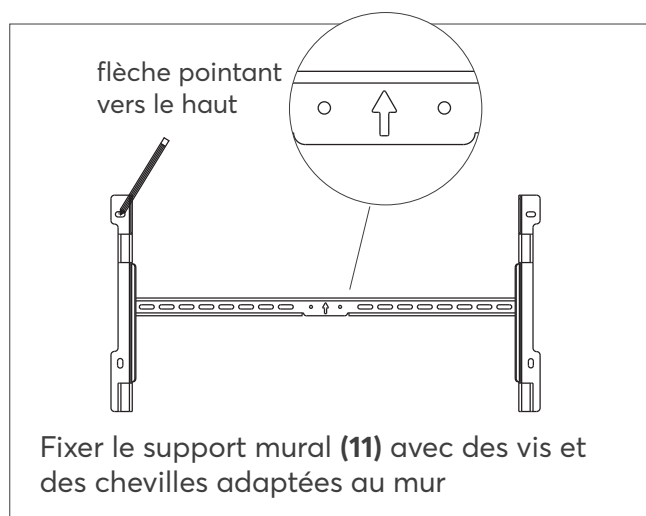
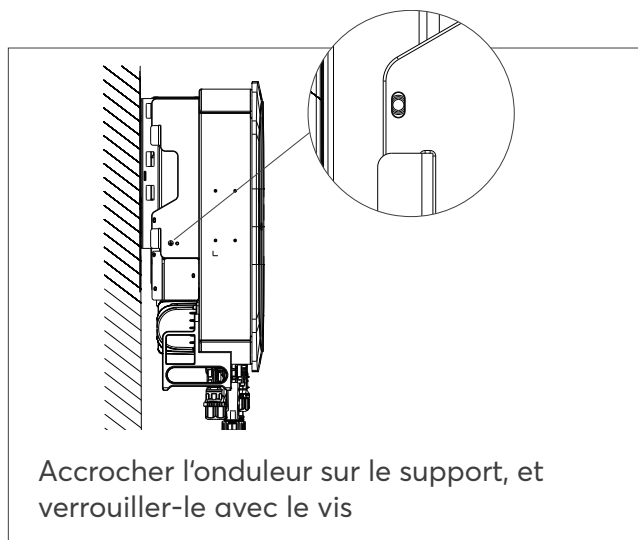
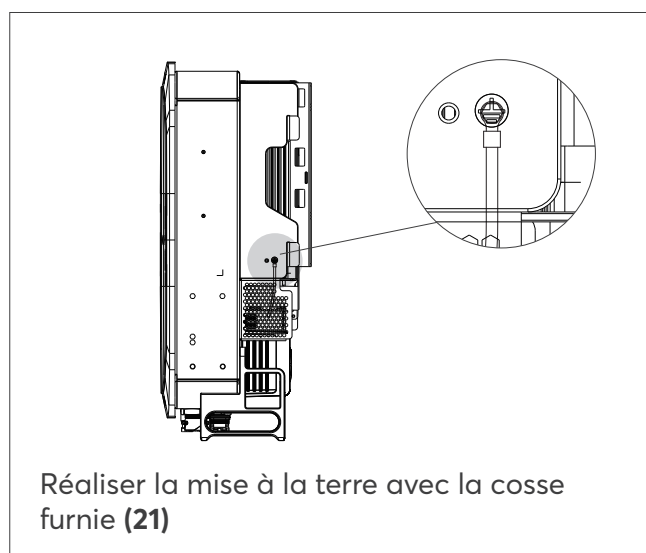
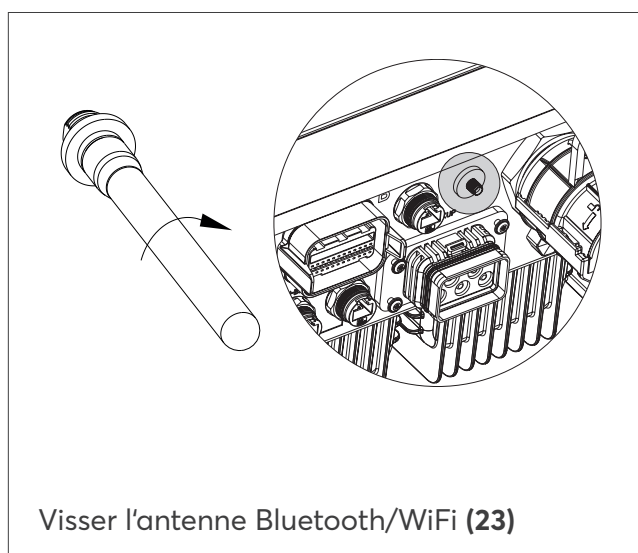


Fixer le top pack avec les équerres (2) puis fixer les packs entre-eux avec les vis (1)

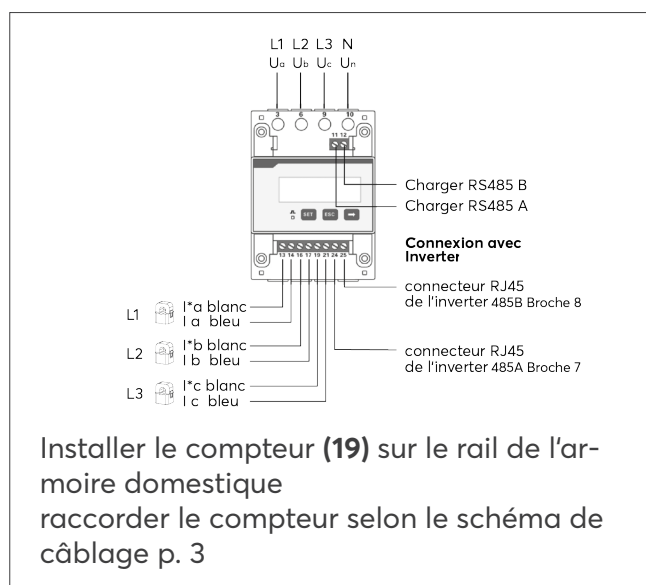
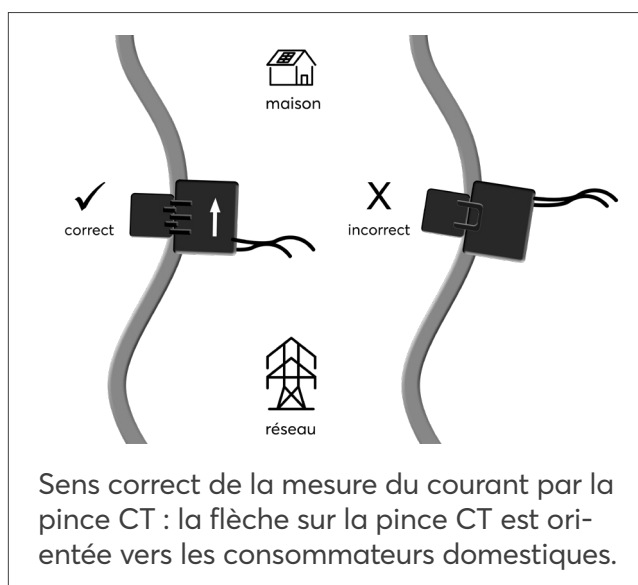


Connecter le câble de mise à la terre (5)

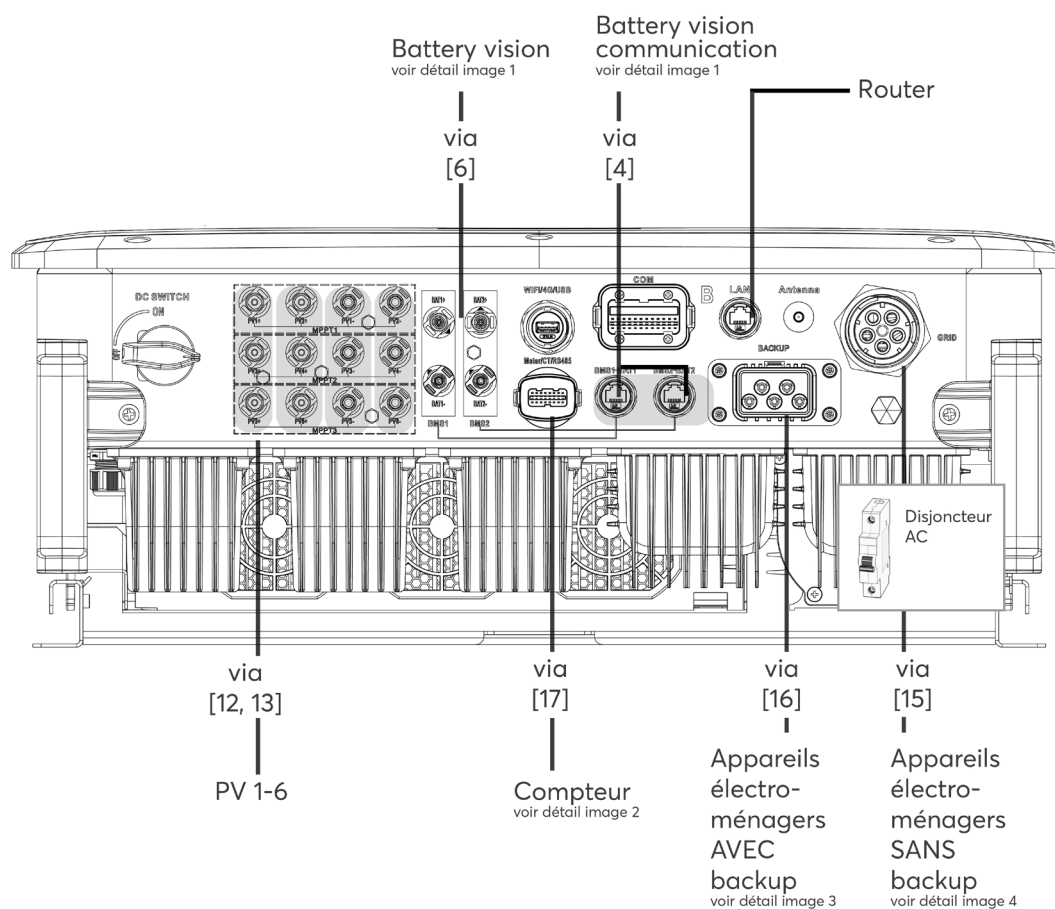
MONTAGE ET ET CÂBLAGE DE L'ONDULEUR



MONTAGE ET CÂBLAGE DU COMPTEUR



CÂBLAGE DE L'ONDULEUR



- | | |
|---|-----------------------------------|
| 4 Câble de communication BMS - Onduleur | 13 Cosses des connecteurs PV |
| 6 Câbles DC batterie | 15 Connecteur AC Grid |
| 12 Connecteurs PV (MC4 Stäubli) | 16 Connecteur AC Backup |
| | 17 Communication avec le compteur |

Exigences en matière de câbles :

PV: 4 - 6 mm² MC4, Stäubli

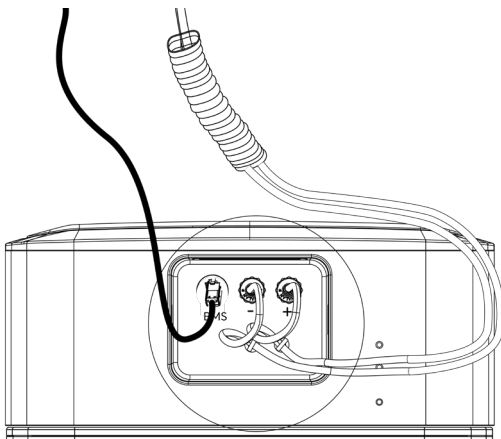
AC: 15 kW: 6-10mm² 50 A
 20-25 kW: 10-16mm² 63 A
 30 kW 10-16mm² 80 A

Câble réseau catégorie 5e minimum

MONTAGE ET CÂBLAGE DE L'ONDULEUR

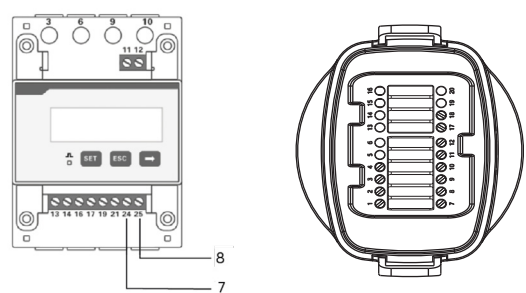
détail 1

Interfaces de l'onduleur
BMS Battery



Raccorder la batterie à l'aide des câbles DC batteries (6) et du câble de communication BMS - Onduleur (4)

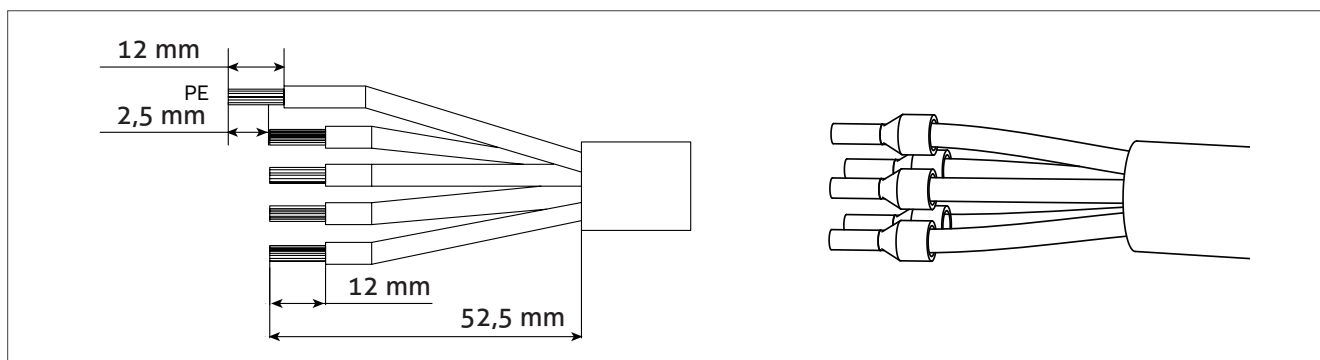
détail 2



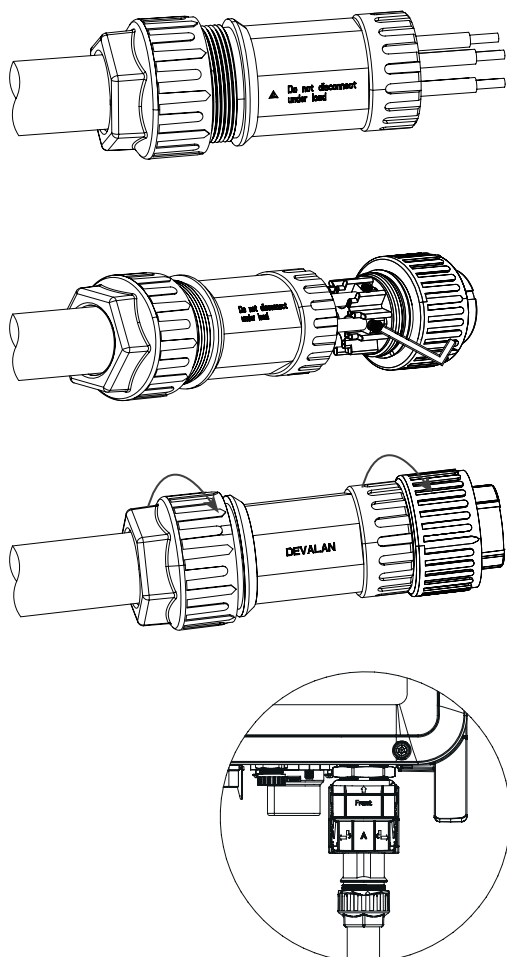
PIN meter	24	25
PIN COM plug for the inverter	7	8

Raccorder le compteur Chint (19, 17)

CÂBLAGE DE L'ONDULEUR



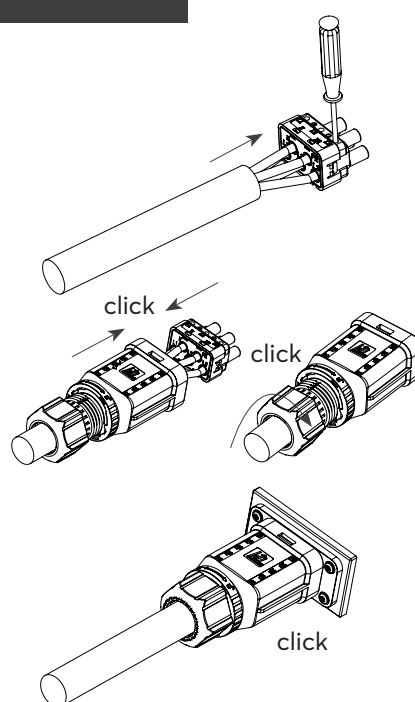
détail 3



- Faites passer le câble à travers le connecteur (15)
- Insérez les fils de cuivre dans les bornes du connecteur et serrez les vis
- Serrez la gaine et le contre-écrou, puis raccordez le connecteur

Si vous devez rouvrir le connecteur, utilisez l'outil de déverrouillage (22).

détail 4

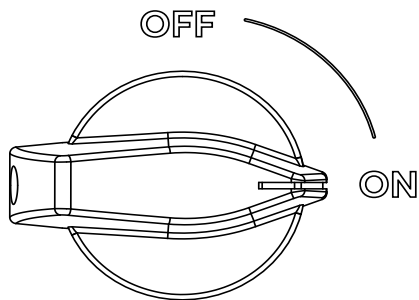


- Démontez le connecteur (16)
- Raccordez les extrémités du câble en respectant la désignation des conducteurs indiquée sur la fiche
- Faites passer le câble à travers les composants de la fiche
- Remontez le connecteur et branchez-le

S'il est nécessaire de rouvrir le connecteur, utilisez un tournevis pour aligner la position de déverrouillage.

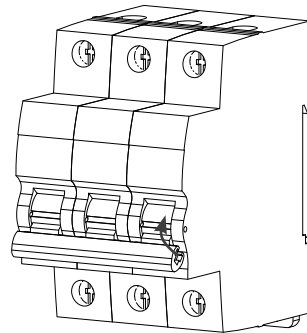
DÉMARRAGE DU SYSTÈME

1



Tourner l'interrupteur **DC Switch** de l'onduleur sur ON

2



Allumer :

- le disjoncteur AC Grid
- le disjoncteur AC Backup (si requis localement)

3

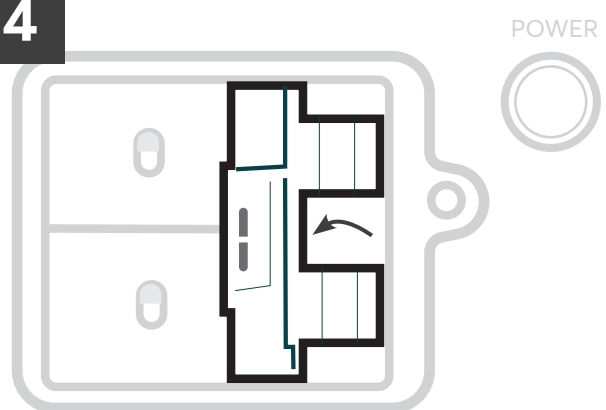


- définir le code réseau pour la sécurité du réseau
- reseaurégler l'heure

Appuyer sur le bouton de confirmation de l'onduleur ☒ pendant 3 secondes.

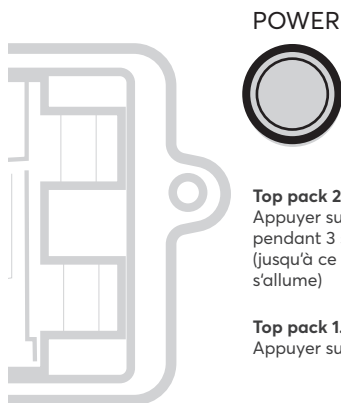
- sélectionner START

4



Mettre l'interrupteur **DC Switch** du top pack de la Battery vision sur ON

5



Top pack 2.0:
Appuyer sur le bouton pendant 3 secondes (jusqu'à ce que la LED d'état s'allume)

Top pack 1.0:
Appuyer sur l'interrupteur

Appuyer sur le bouton POWER (top pack)

Vous n'avez pas besoin d'un mot de passe pour l'installation initiale de l'onduleur. Pour les réglages suivants, le mot de passe est 0000.

Modifiez le mot de passe à la fin de la mise en service afin de protéger la configuration de l'onduleur.

LIAISON AVEC L'APPLICATION SOLARWATT PRO APP



Téléchargez l'application SOLARWATT Pro app et connectez-vous avec votre compte SOLARWATT Pro

Fonctionnalités de mise en service de l'application SOLARWATT Pro app :

Inverter vision

- Rendre l'appareil connectable via WiFi
- Auto-test selon CEI 0-21 (Italie)
- Définir Cos φ

Charger vision

- Rendre l'appareil connectable via WiFi
- Autorisation RFID
- Définir le courant de charge maximum (A)
- Configurer la gestion de la charge (en préparation)

Détecter et connecter l'onduleur via l'app SOLARWATT Pro app pour utiliser ces fonctionnalités

ARRÊT DU SYSTÈME

1



Appuyer sur le bouton de confirmation l'onduleur  pendant 3 secondes.

- sélectionner STOP

2



POWER

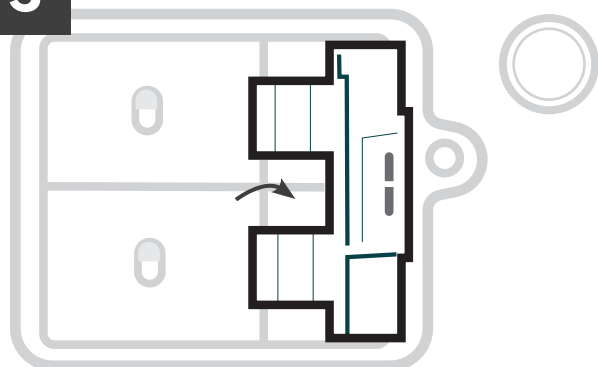


Top pack 2.0:
Appuyer sur le bouton pendant 5 secondes (jusqu'à ce que la LED d'état s'éteigne)

Top pack 1.0:
Appuyer sur l'interrupteur

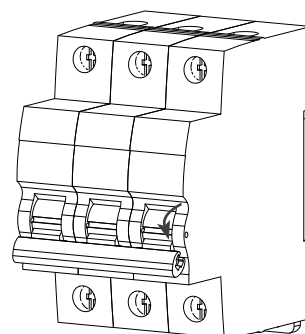
Appuyer sur le bouton POWER (top pack)

3



Mettre l'interrupteur **DC Switch** du top pack de la Battery vision sur OFF

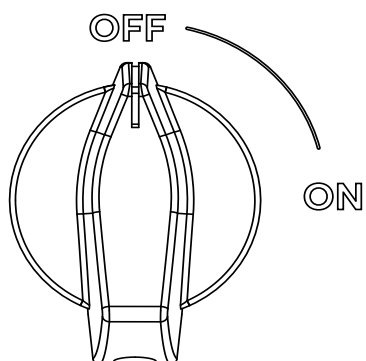
4



Éteindre

- le disjoncteur AC Grid
- le disjoncteur AC Backup (si requis localement)

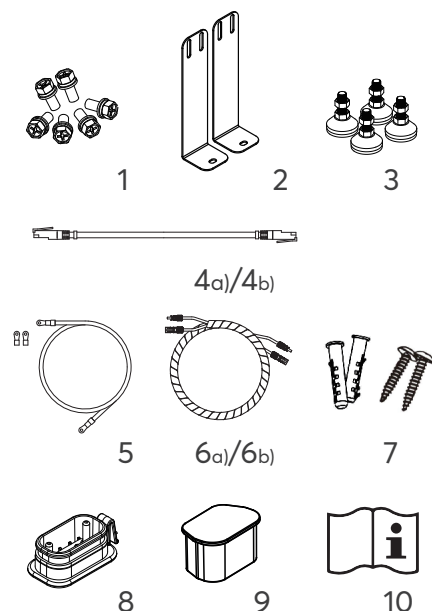
5



Tourner l'interrupteur **DC Switch** de l'onduleur sur OFF

Battery vision packs

Liste di imballaggio top pack



1 Viti di montaggio
2 per i pack e 2 per la staffa di fissaggio

1a) M6 (top pack 2.0)

1b) M5 (top pack 1.0)

2 Staffa di fissaggio

3 Piedini di appoggio

4 Cavo di com., BMS - Inverter

4a) 3,0 m (pack 2.0)

4b) 1.5 m (pack 1.0)

5 Cavo di messa a terra
(con 2 capicorda aggiuntivi)

6 Cavo di uscita DC batteria
6a) 3,0 m (pack 2.0)

6b) 1.5 m (pack 1.0)

7 2 viti per il montaggio a parete

8 Connettore a ponte

9 Coperchio di protezione del connettore
(incluso solo nel pack 1.0)

10 Istruzioni di sicurezza

Liste di imballaggio pack



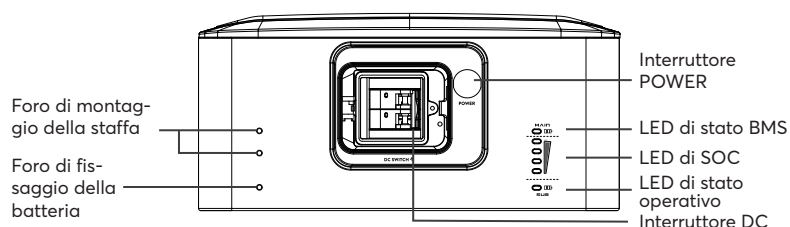
23 Viti di fissaggio per i pack

23a) M6 (pack 2.0)

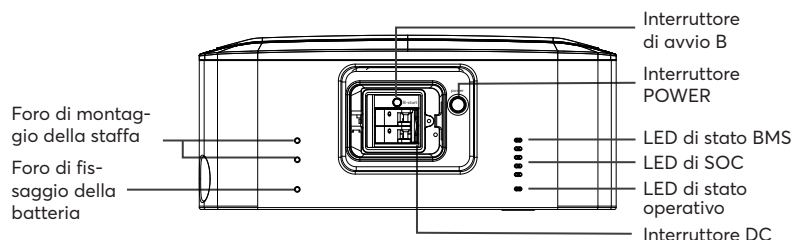
23b) M5 (pack 1.0)

24 Istruzioni di sicurezza

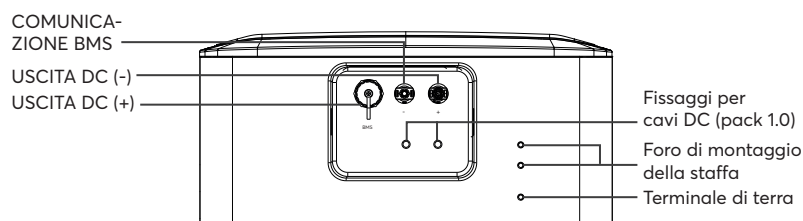
Vista dal lato sinistro top pack 2.0



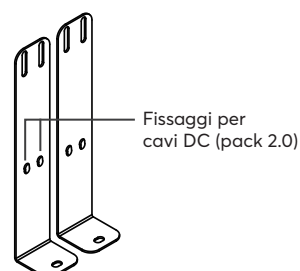
Vista dal lato sinistro top pack 1.0



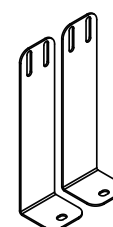
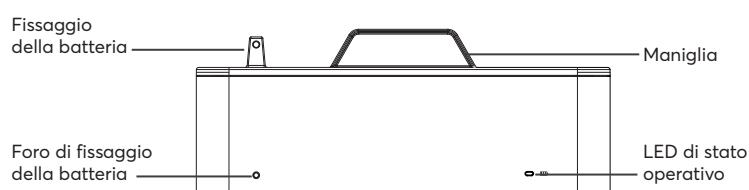
Vista dal lato destro



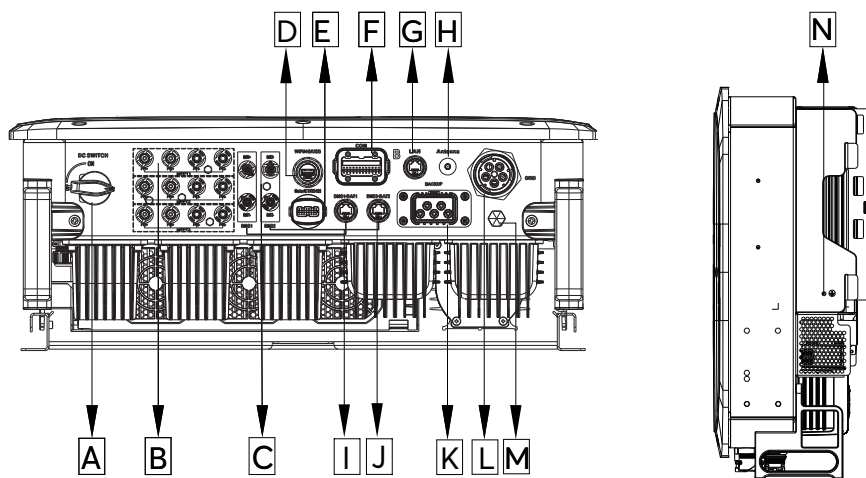
Staffa di fissaggio top pack 2.0



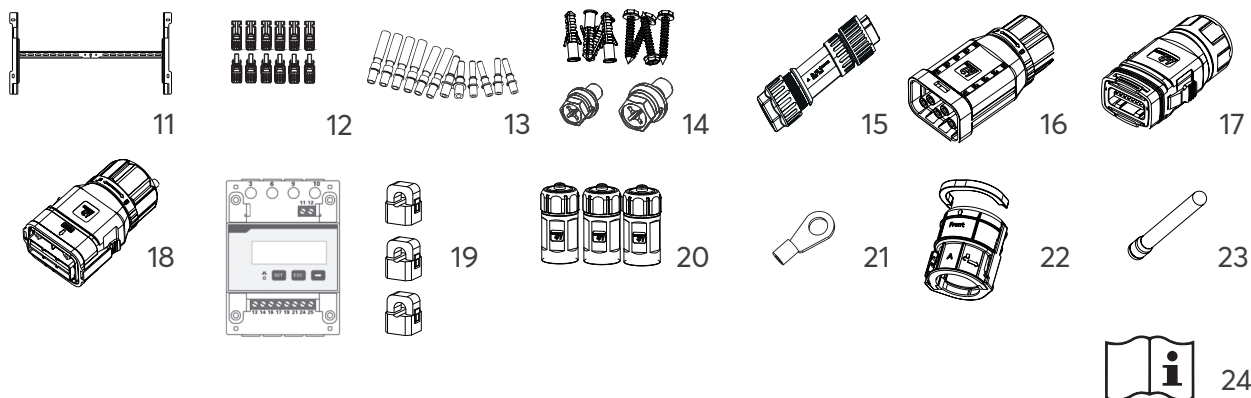
Staffa di fissaggio top pack 1.0



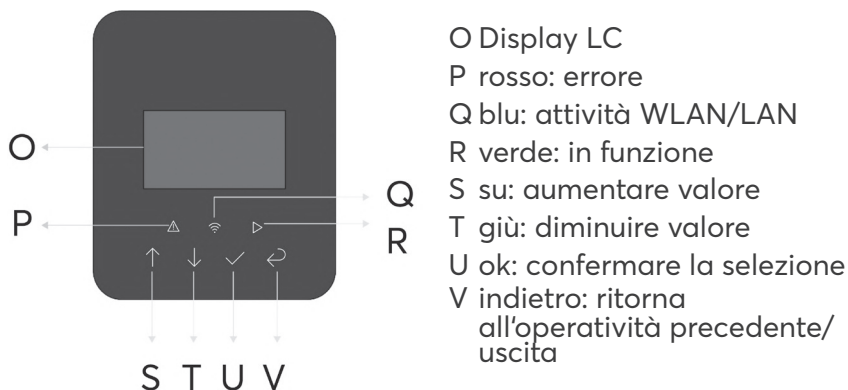
Inverter vision max 1.0



- | | | |
|---------------------------|-----------------|---------------------|
| A INTERRUOTTORE DC SWITCH | F COMM. CLUSTER | K BACKUP |
| B FV 1-6 | G LAN | L GRID |
| C CONNESSIONE BATTERIA | H ANTENNA | M VALVOLA DI BLOCCO |
| D WIFI/4G/USB | I BMS 1 | N TERRA |
| E CONTATORE/CT/RS485 | J BMS 2 | |



- | | | |
|---|--------------------------------|-------------------------------------|
| 11 Staffa di fissaggio | 16 Connettore CA backup | 21 Terminale messa a terra |
| 12 Connettori FV (MC4 Stäubli) | 17 Connettore COM | 22 Blocco mecc. per conn. alla rete |
| 13 Contatti pin FV | contatore | 23 Antenna |
| 14 Tasselli e viti | 18 Connettore COM | 24 Guida rapida |
| fissaggio a parete, fissaggio dell'inverter (M4), | cluster | Istruzioni di sicurezza |
| messa a terra (M5) | 19 Misuratore con TA | |
| 15 Connettore CA grid | 20 Adattatori RJ45 per esterno | |

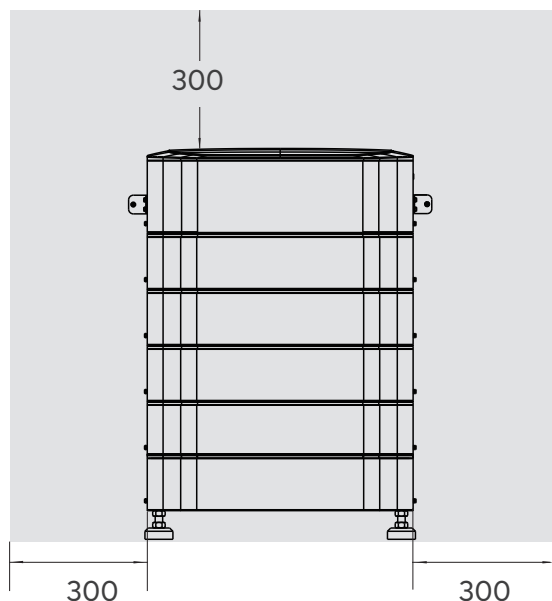


- O Display LC
P rosso: errore
Q blu: attività WLAN/LAN
R verde: in funzione
S su: aumentare valore
T giù: diminuire valore
U ok: confermare la selezione
V indietro: ritorna all'operatività precedente/uscita

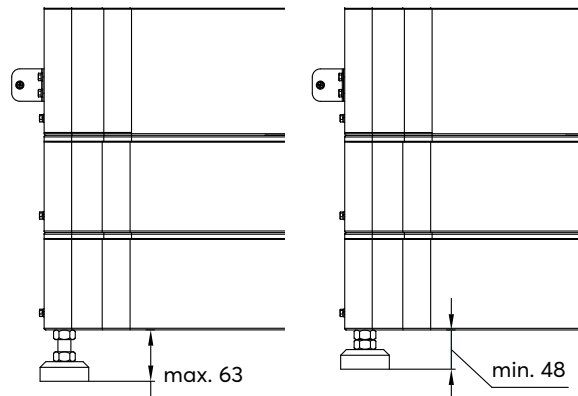
È necessario un equipaggiamento aggiuntivo:

- Cavo di comunicazione (cavo RS485 a 2 fili) per il meter
- Cavo DC e AC per inverter
- Cavo LAN per inverter (opzionale)
- Cavo di messa a terra per l'inverter
- Interruttore automatico

DIMENSIONI BATTERY VISION [MM]



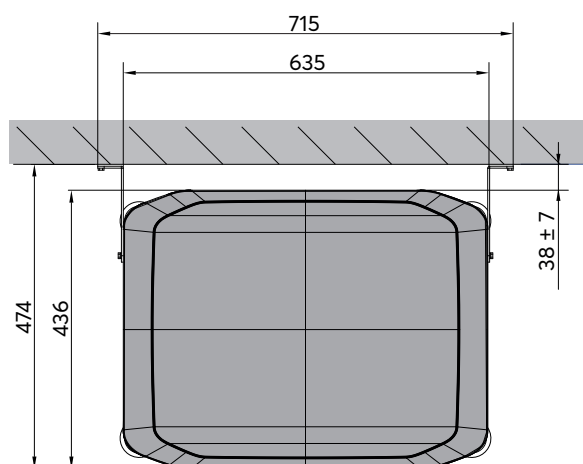
Spazio minimo di installazione
(area di lavoro minima anteriore: 1,2 m)



Distanza flessibile dal pavimento

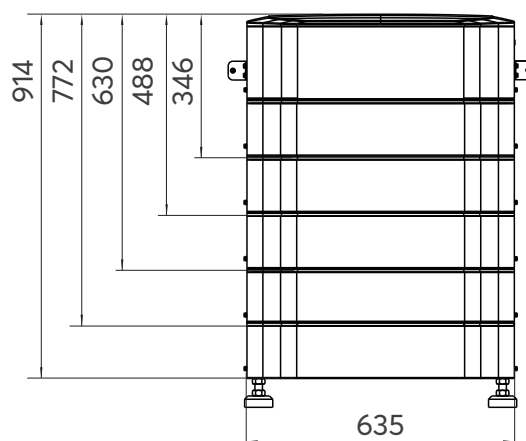
Battery vision 2.0

(vista dall'alto)



Larghezza e profondità di installazione
Distanza dalla parete: 38 mm

Battery vision 2.0

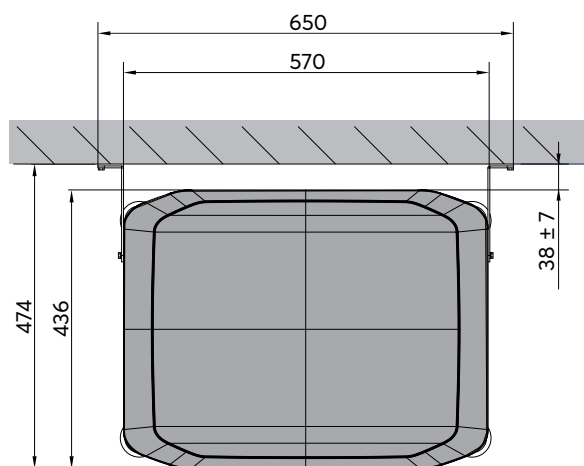


Altezza di installazione
(senza supporti)

DIMENSIONI BATTERY VISION [MM]

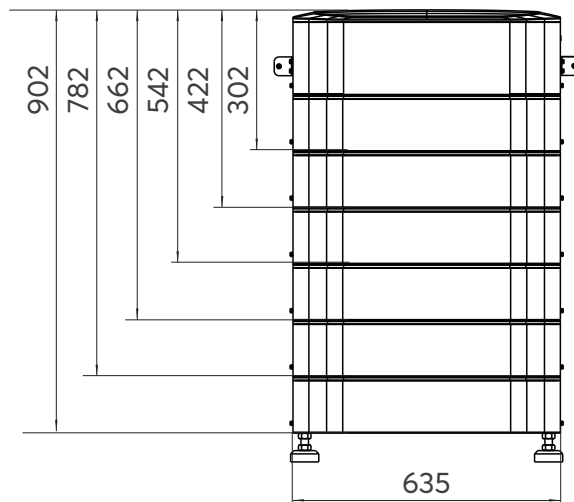
Battery vision 1.0

(vista dall'alto)



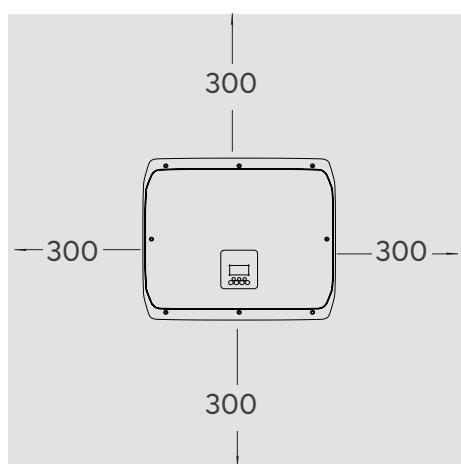
Larghezza e profondità di installazione
Distanza dalla parete: 38 mm

Battery vision 1.0

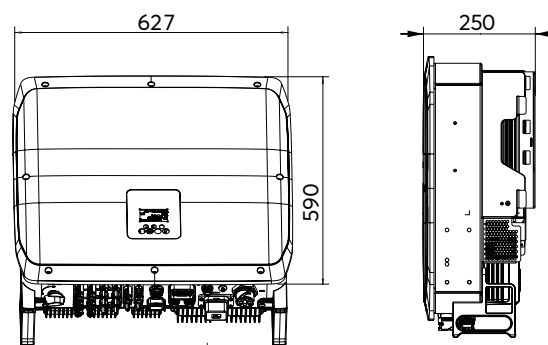


Altezza di installazione
(senza supporti)

DIMENSIONI INVERTER VISION MAX [MM]



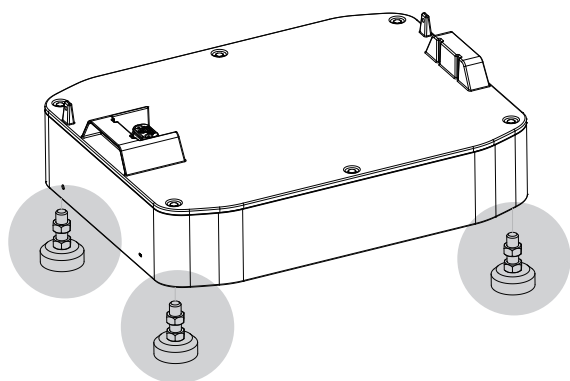
Spazio minimo di installazione
(area di lavoro minima anteriore: 1,2 m)



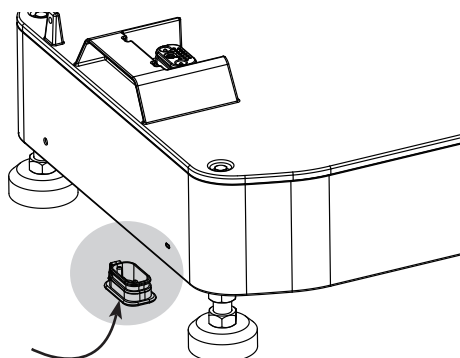
1,5 m
di distanza
dalla batteria

Lunghezza del cavo di collegamento alla batteria:
pack 2.0: 3,0 m
pack 1.0: 1,5 m

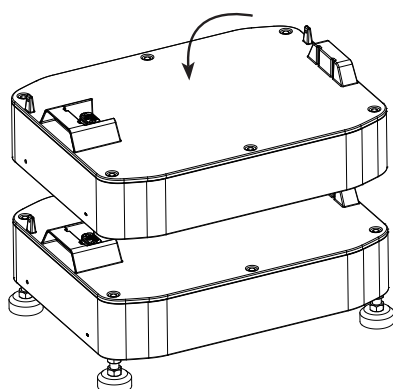
BATTERY PACKS MONTAGGIO E CABLAGGIO



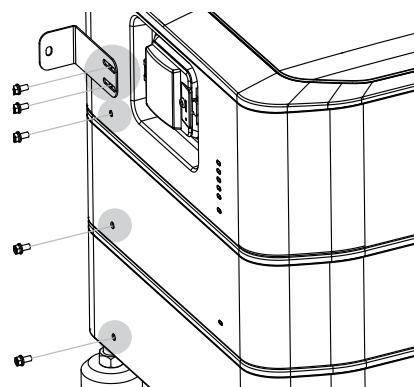
Dotare il modulo inferiore di quattro supporti **(3)**
(i supporti sono forniti nella confezione del top pack)



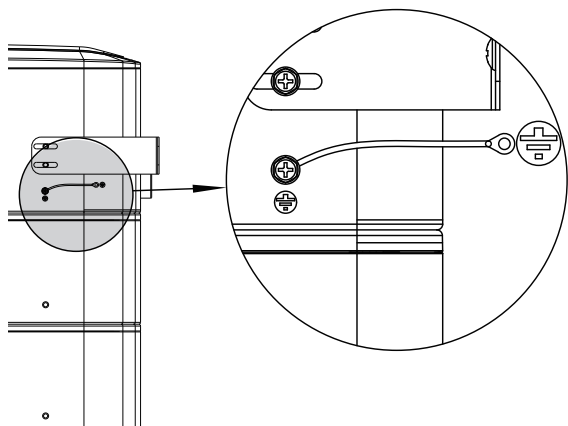
Inserire il connettore a ponte **(8)**
(il connettore è fornito nella confezione del top pack)



Impilare i Battery pack secondo la sequenza, il numero massimo di pacchi batteria, le condizioni di fissaggio e le istruzioni di sicurezza indicate nel manuale.

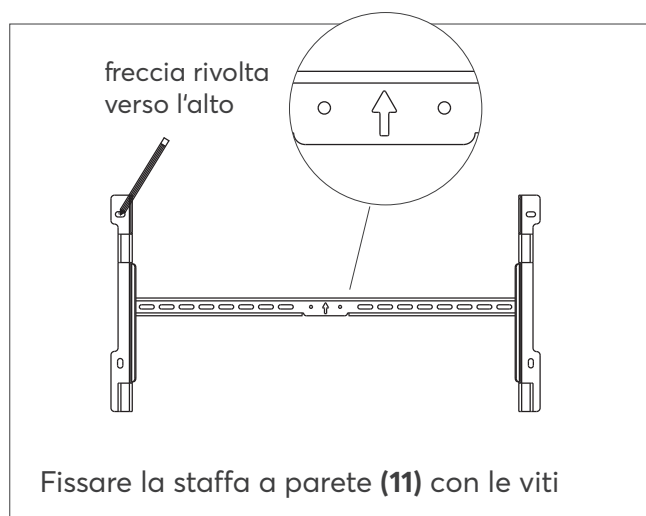
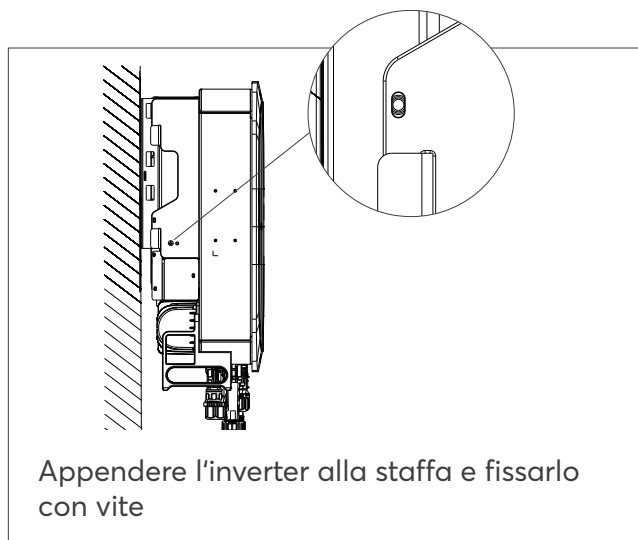
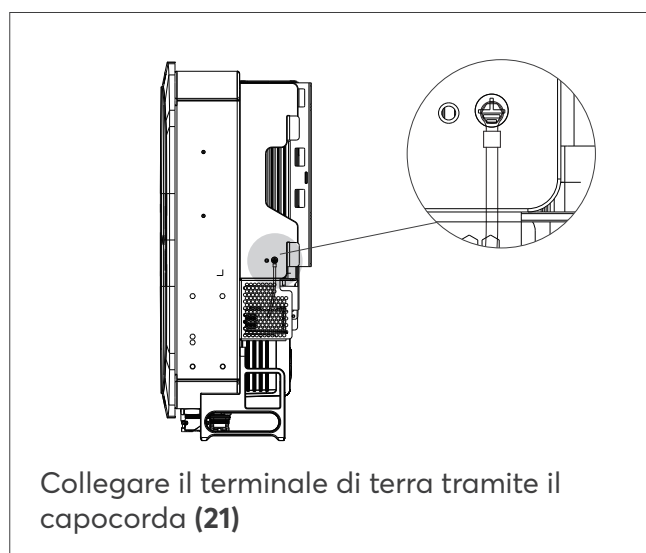
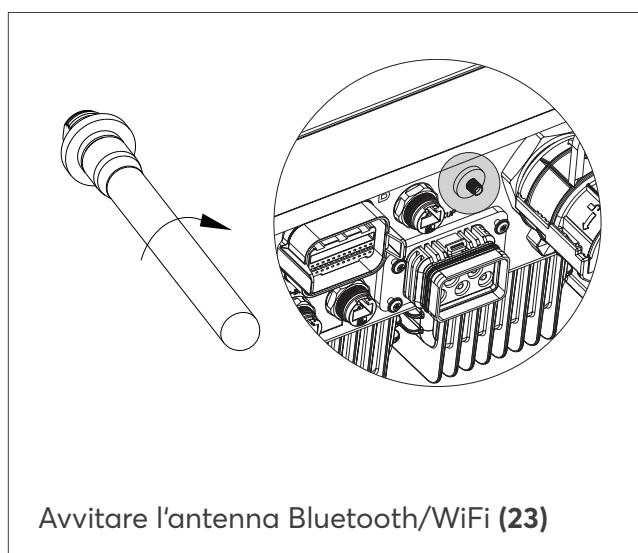


Fissare prima il top pack con la staffa di fissaggio **(2)** e poi fissare i packs con le viti **(1)**

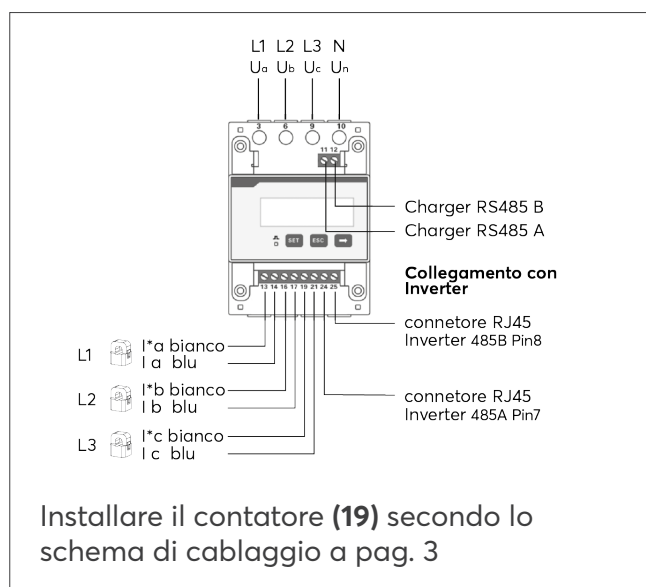
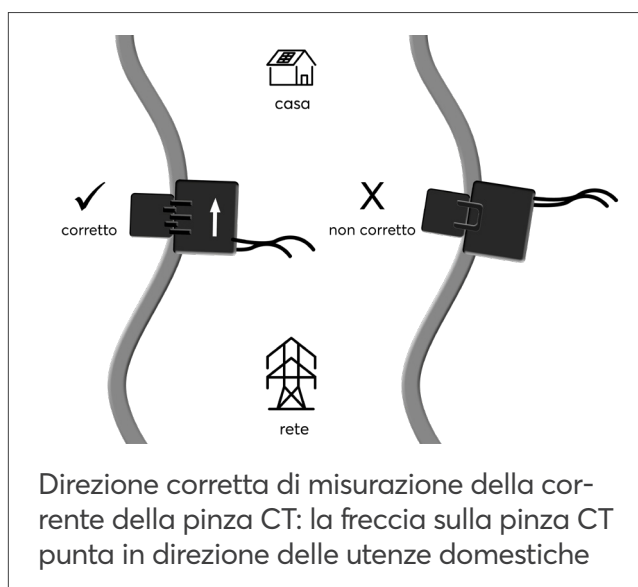


Collegare il cavo di messa a terra **(5)**

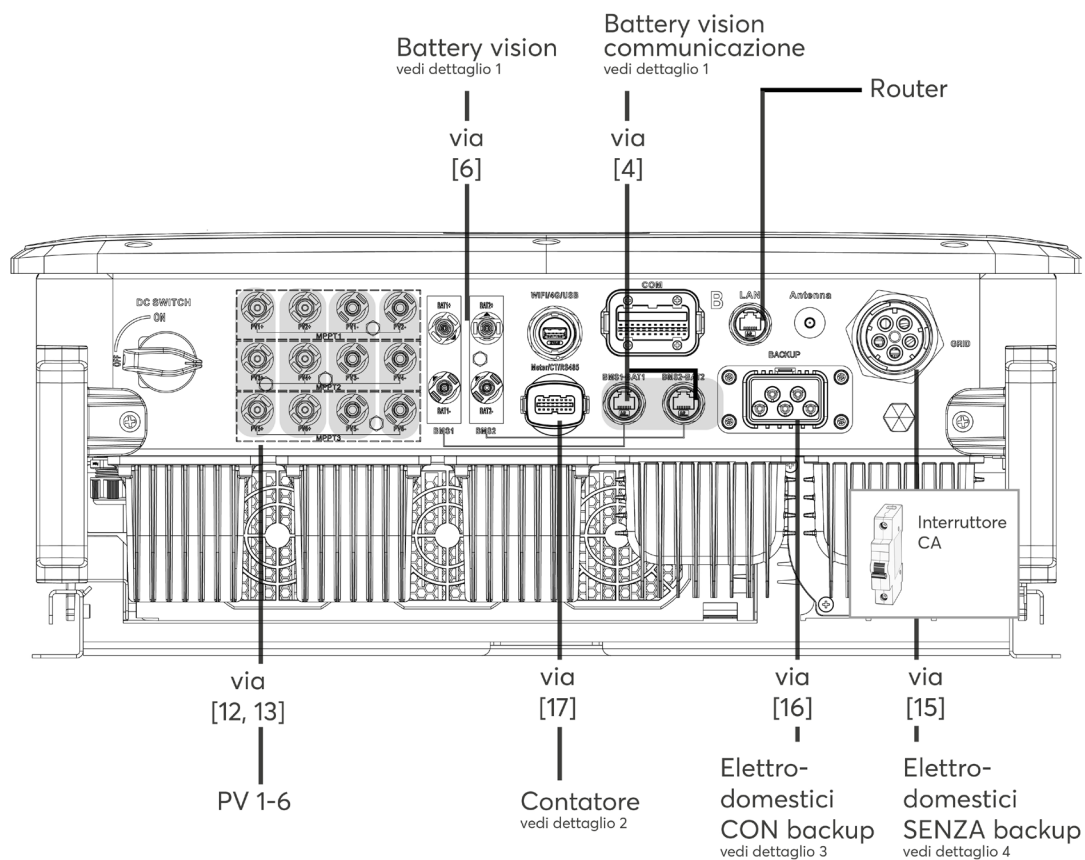
INVERTER MONTAGGIO E CABLAGGIO



CONTATORE MONTAGGIO E CABLAGGIO



CABLAGGIO DELL'INVERTER



- | | |
|---|-----------------------------------|
| 4 Cavo di comunicazione
BMS - Inverter | 13 Contatti pin FV |
| 6 Cavo batteria DC | 15 Connettore CA Grid |
| 12 Connettori FV
(MC4 Stäubli) | 16 Connettore CA Backup |
| | 17 Comunicazione con il contatore |

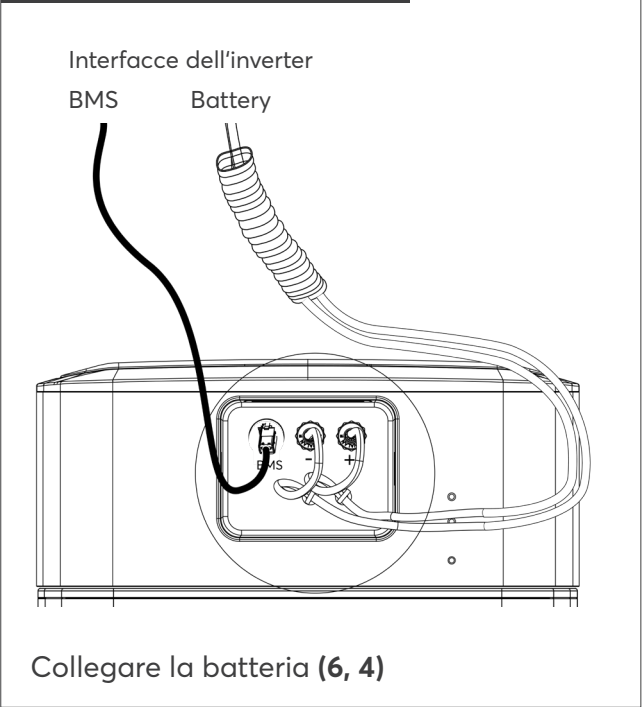
Requisiti dei cavi:

FV: 4 - 6 mm² MC4, Stäubli

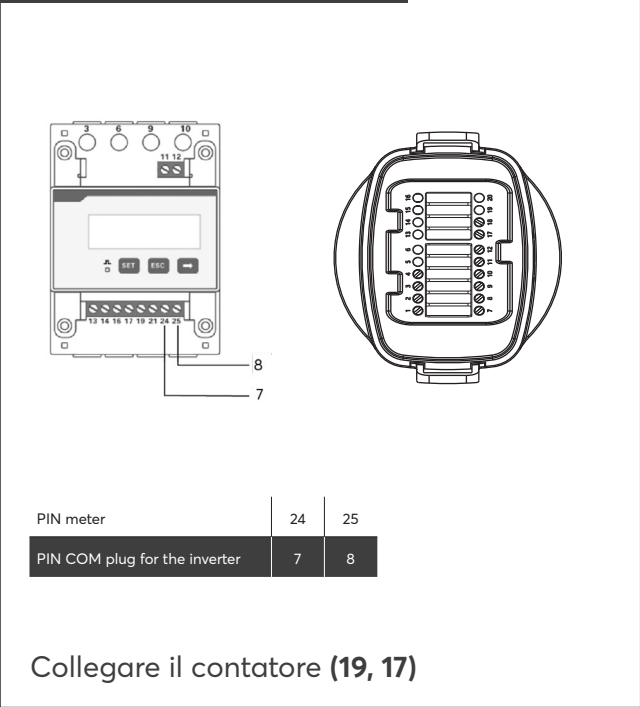
CA: 15 kW: 6-10mm² 50 A
20-25 kW: 10-16mm² 63 A
30 kW 10-16mm² 80 A

AC: Cavo LAN standard

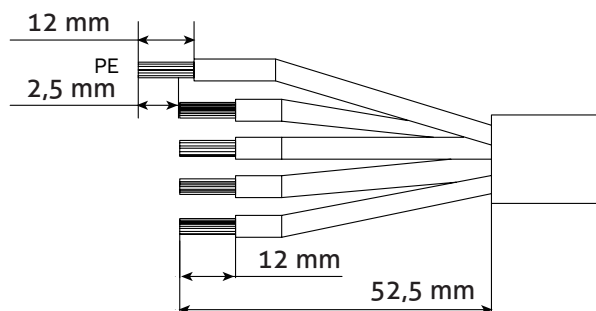
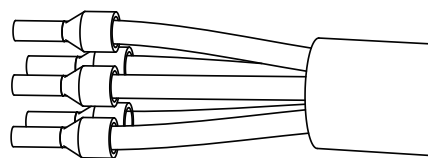
dettaglio 1



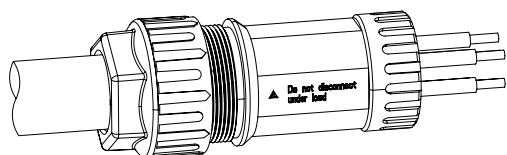
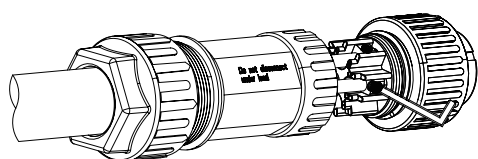
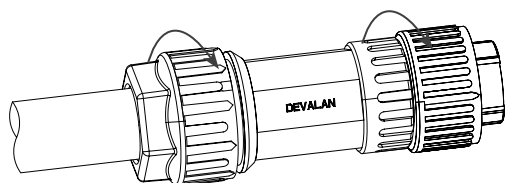
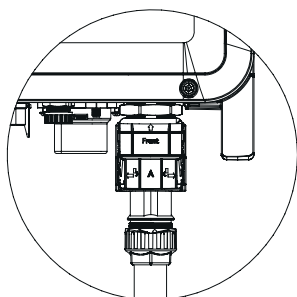
dettaglio 2



CABLAGGIO DELL'INVERTER



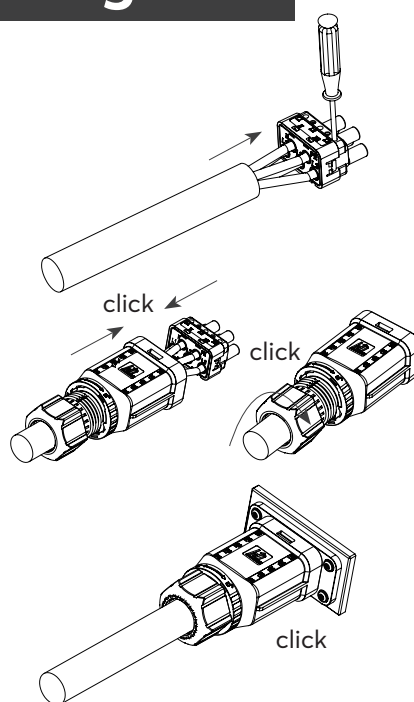
dettaglio 3



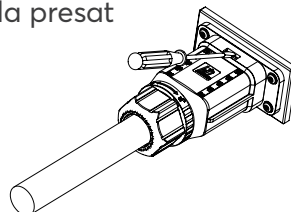
- Far passare il cavo attraverso il connettore (15)
- Inserire i fili di rame nei morsetti del connettore e serrare le viti
- Serrare il rivestimento e il controdado, quindi collegare il connettore

Se è necessario riaprire il connettore, utilizzare l'attrezzo di sblocco (22).

dettaglio 4



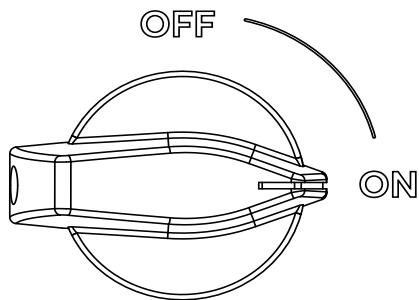
- Smontare il connettore (16)
- Collegare le estremità del cavo in base alla designazione dei conduttori sulla spina
- Far passare il cavo attraverso i componenti della spina
- Rimontare il connettore e inserirlo nella presat



Se è necessario aprire nuovamente il connettore, utilizzare un cacciavite per allineare la posizione di sblocco.

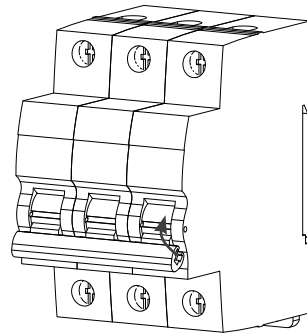
AVVIO DEL SISTEMA

1



Accendere l'interruttore DC dell'inverter

2



Accendere

- Interruttore AC Rete
- Interruttore AC Backup (se richiesto localmente)

3

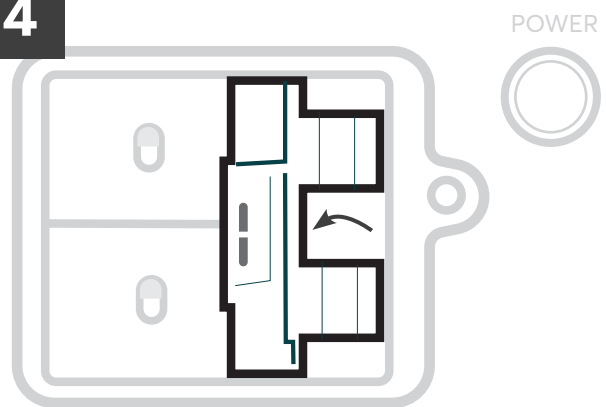


- Impostare il grid code sec. normativa locale, istruzioni e configurazione dell'impianto.
- impostare l'ora

Premere il pulsante di conferma dell'inverter ☒ per 3 secondi.

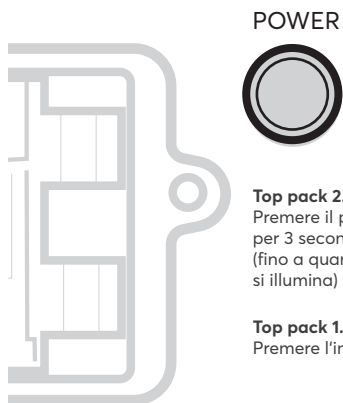
- selezionare START

4



Accendere l'interruttore DC della batteria (top pack)

5



Top pack 2.0:
Premere il pulsante per 3 secondi
(fino a quando il LED di stato si illumina)

Top pack 1.0:
Premere l'interruttore

Premere il pulsante POWER (top pack)

Per l'installazione iniziale non è necessaria una password per l'inverter. Per le impostazioni successive, la password è 0000.

Modificare la password al termine della messa in funzione per proteggere la configurazione dell'inverter.

CONNESSIONE CON L'APP SOLARWATT PRO APP



Scaricare l'app SOLARWATT Pro e accedere con il proprio account del Pro portal di Solarwatt.

Funzioni di messa in servizio di SOLARWATT Pro app:

Inverter vision

- Configurazione del dispositivo via WiFi sec. parametri, compatibilità app e condizioni di rete indicate nel manuale.
- Autotest CEI 0-21 (Italia) sec. parametri e configurazioni indicate da Solarwatt.
- Impostazione Cos φ

Charger vision

- Configurazione del dispositivo via WiFi sec. parametri, compatibilità app e condizioni di rete indicate nel manuale.
- Autorizzazione RFID
- Impostazione della corrente di carica massima (A)
- Impostazione della gestione del carico (in corso di validazione)

Rilevare e collegare l'inverter tramite l'app SOLARWATT Pro per utilizzare queste funzioni

SPEGNIMENTO DEL SISTEMA

1



Premere il pulsante di conferma dell'inverter
✓ per 3 secondi.

- selezionare STOP

2



POWER

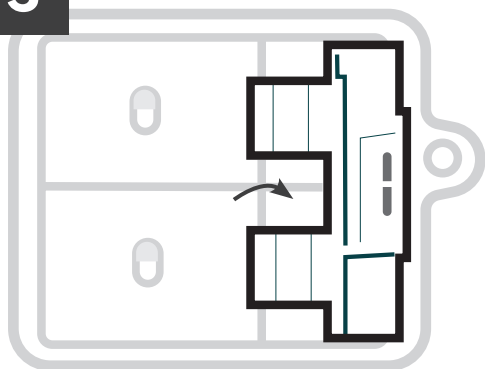


Top pack 2.0:
Premere il pulsante
per 5 secondi
(fino a quando il LED di stato
non si spegne)

Top pack 1.0:
Premere l'interruttore

Premere il pulsante POWER (top pack)

3

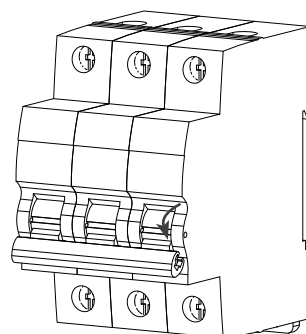


POWER



Spegnere l'interruttore CC della batteria
(top pack)

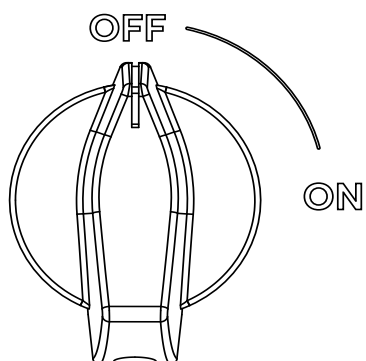
4



Spegnere

- Interruttore CA Rete
- Interruttore CA Backup (se richiesto localmente)

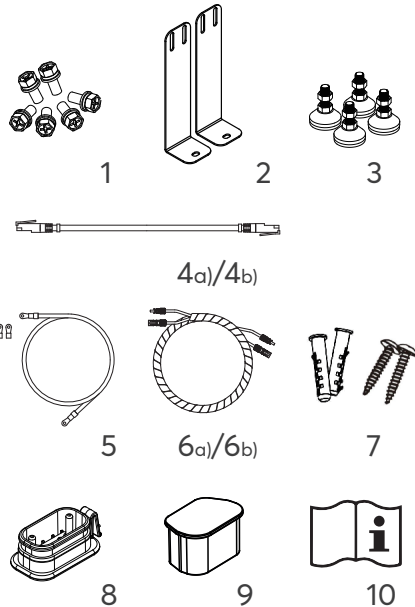
5



Disattivare l'interruttore CC dell'inverter

Battery vision packs

Paklijsten top pack



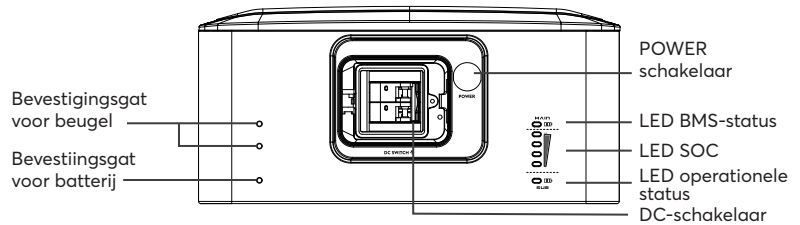
- 1 Schroeven
2 voor pack bevestiging en 2 voor beugel bevestiging
1a) M6 (top pack 2.0)
1b) M5 (top pack 1.0)
- 2 Bevestigingsbeugels
- 3 Voetsteunen
- 4 Comm.kabel, BMS - Inverter
4a) 3,0 m (pack 2.0)
4b) 1,5 m (pack 1.0)
- 5 Aardingskabel
(met 2 extra kabelschoenen)
- 6 DC kabel batterij
6a) 3,0 m (pack 2.0)
6b) 1,5 m (pack 1.0)
- 7 2 Schroeven voor muurbevestiging
- 8 Contrastekker
- 9 Beschermkap connector
(alleen inbegrepen bij pack 1.0)
- 10 Veiligheidsinstructies

Paklijsten pack

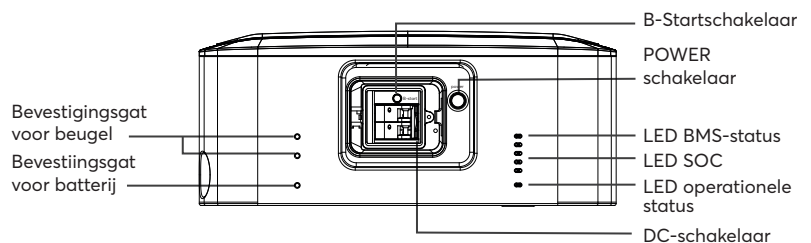


- 23 Schroeven
voor pack bevestiging
23a) M6 (pack 2.0)
23b) M5 (pack 1.0)
- 24 Veiligheidsinstructies

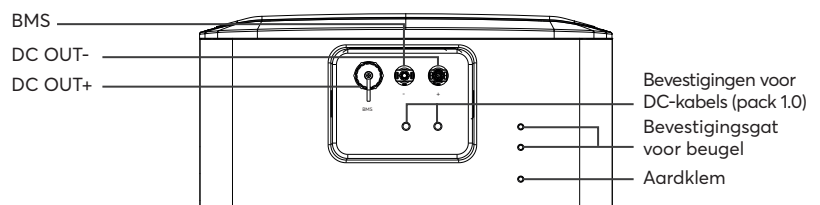
Linkeraanzicht top pack 2.0



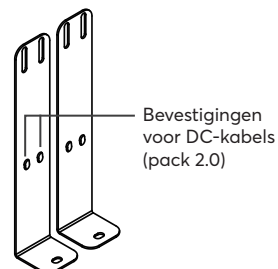
Linkeraanzicht top pack 1.0



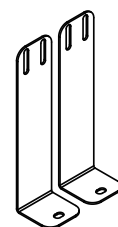
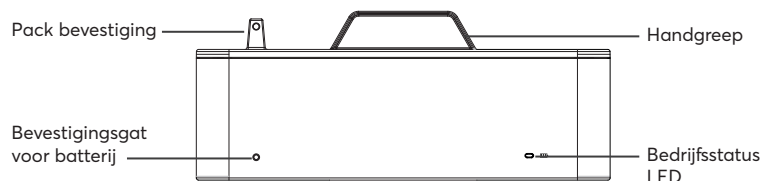
Rechteraanzicht



Bevestigingsbeugels top pack 2.0

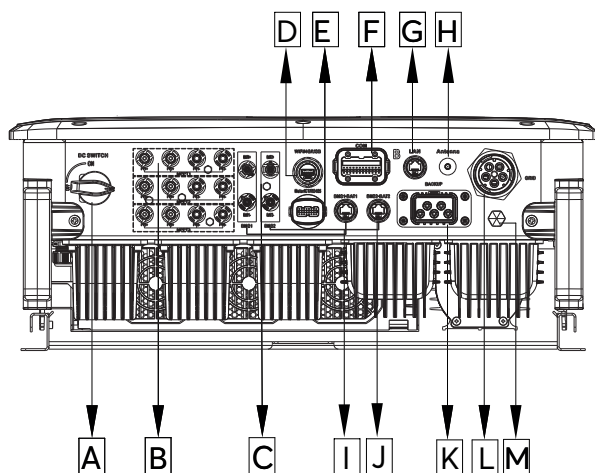
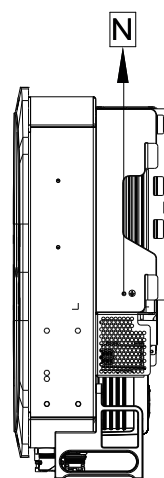


Bevestigingsbeugels top pack 1.0



TEKENINGEN EN PAKLIJSTEN VAN HET APPARAAT

Inverter vision max 1.0



- | | | |
|---------------------|---------------|---------------------------|
| A DC SCHAKELAAR | F COM CLUSTER | K BACKUP |
| B PV 1-6 | G LAN | L GRID |
| C BATTERIJCONNECTOR | H ANTENNE | M WATERDICHTE AFSLUITKLEP |
| D WIFI/4G/USB | I BMS 1 | N AARDING |
| E METER/CT/RS485 | J BMS 2 | |



11



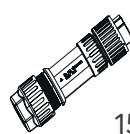
12



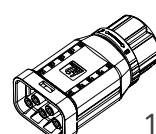
13



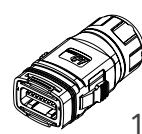
14



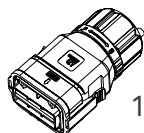
15



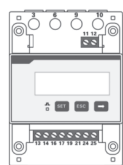
16



17



18



19



20



21



22

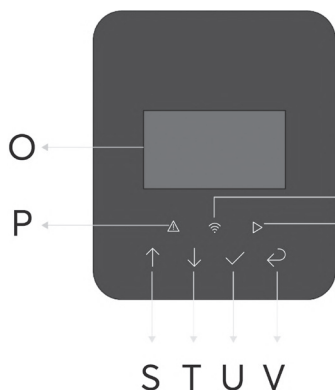


23



24

- | | | |
|---|----------------------------------|--|
| 11 Bevestigingsbeugel | 16 AC connector backup | 21 Kabelschoen v. aardingskabel |
| 12 PV connectors (MC4 Stäubli) | 17 Communicatieconnector meter | 22 Mech. slot voor netaansluiting |
| 13 PV pincontacten | 18 Communicatieconnector cluster | 23 Antenne |
| 14 Schroeven en pluggen
wandbevestiging, omvormerbevestiging (M4),
aarding (M5) | 19 Meter met CT-klemmen | 24 Snelstartgids
Veiligheidsinstructies |
| 15 AC connector grid | 20 RJ45 buitenadapters | |

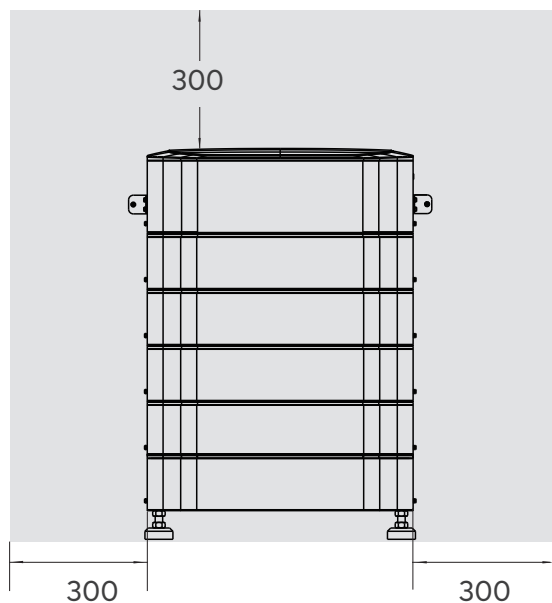


- | |
|------------------------------------|
| O LCD-scherm |
| P rood: fout |
| Q blauw: WLAN/LAN-status |
| R groen: operationele modus |
| S omhoog bewegen; waarde verhogen |
| T beneden bewegen; waarde verlagen |
| U bevestigen |
| V terug/uit |

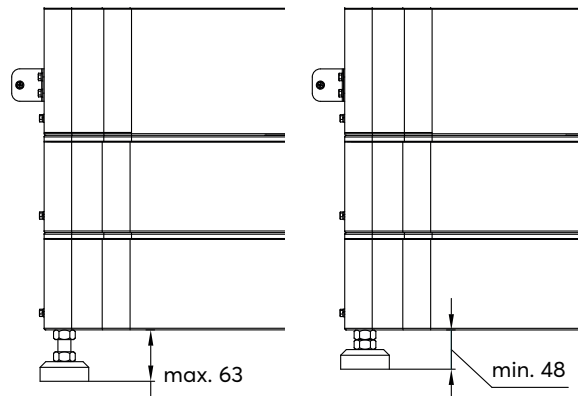
Extra apparatuur vereist:

- communicatiekabel (2-aderige RS485-kabel) Chint-meter
- DC- en AC-kabel voor omvormer
- LAN-kabel voor omvormer (optioneel)
- aardingskabel voor omvormer
- stroomonderbreker

AFMETINGEN BATTERY VISION [MM]



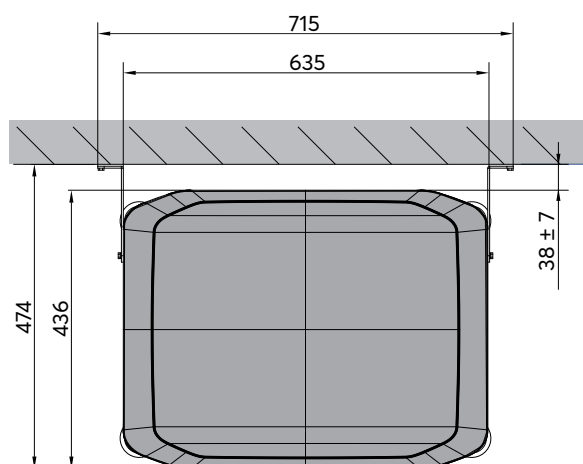
Minimale installatieruimte
(min. werkgebied aan voorzijde: 1.200)



Flexibele afstand tot de vloer

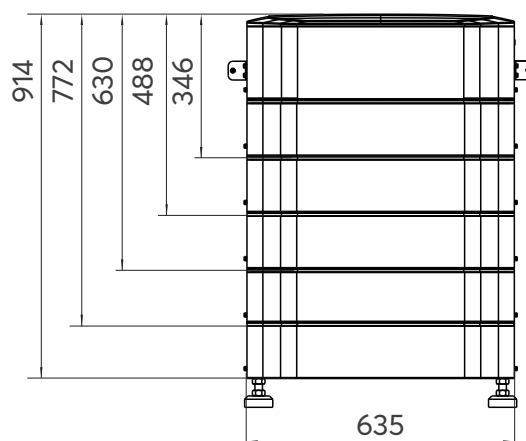
Battery vision 2.0

(bovenaanzicht)



Installatiebreedte, -diepte
Afstand tot de muur: 38 mm

Battery vision 2.0

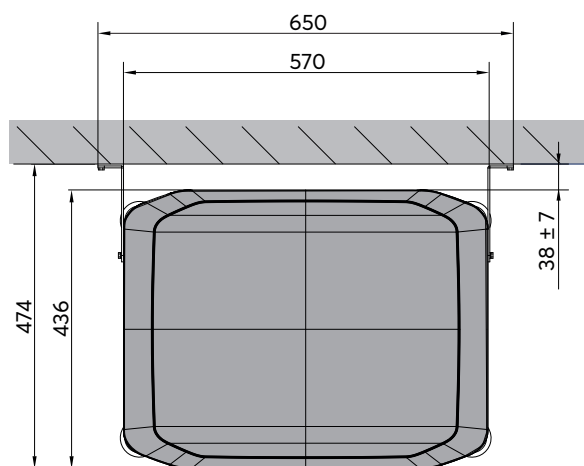


Hoogte installatie
(zonder voetsteunen)

AFMETINGEN BATTERY VISION [MM]

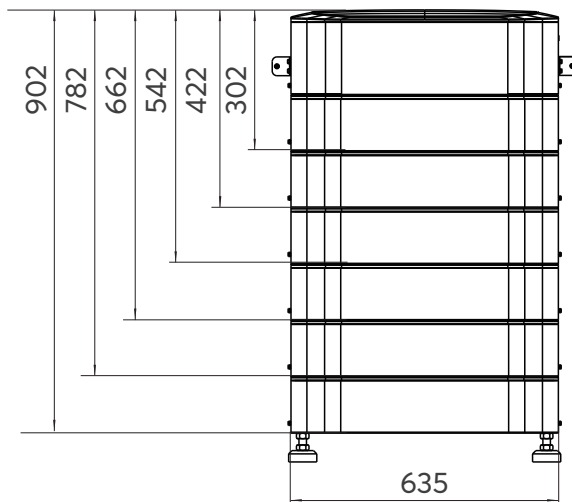
Battery vision 1.0

(bovenaanzicht)



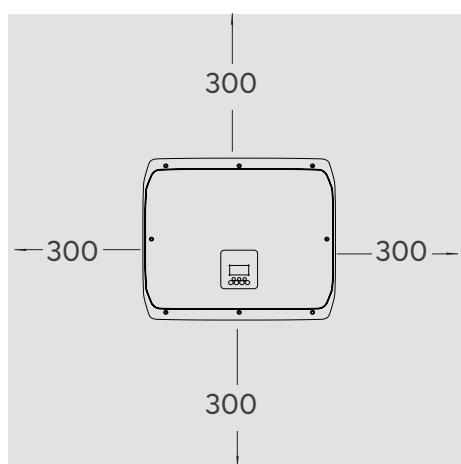
Installatiebreedte, -diepte
Afstand tot de muur: 38 mm

Battery vision 1.0

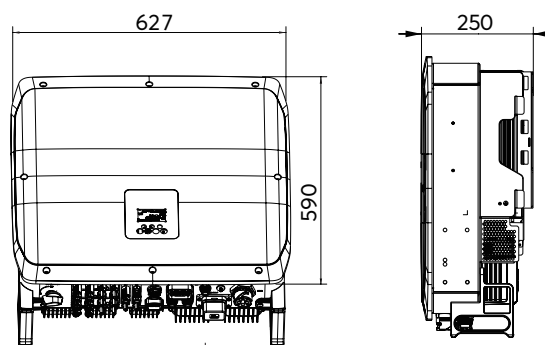


Hoogte installatie
(zonder voetsteunen)

AFMETINGEN INVERTER VISION MAX [MM]



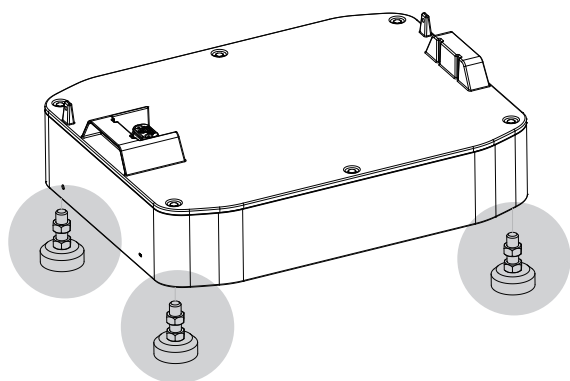
Minimale installatieruimte
(min. werkgebied aan voorzijde: 1.200)



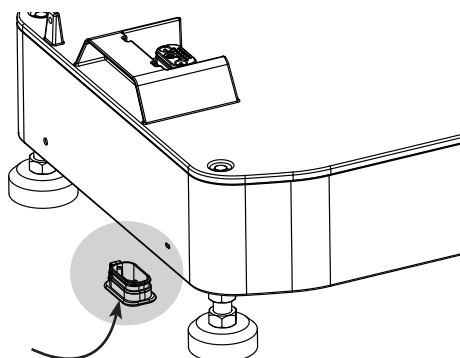
1,5 m afstand
tot batterij

Kabellengte
batterijaansluiting:
pack 2.0: 3,0 m
pack 1.0: 1,5 m

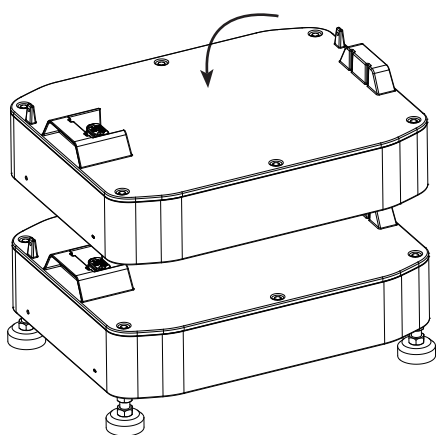
BATTERY PACKS MONTAGE EN BEDRADING



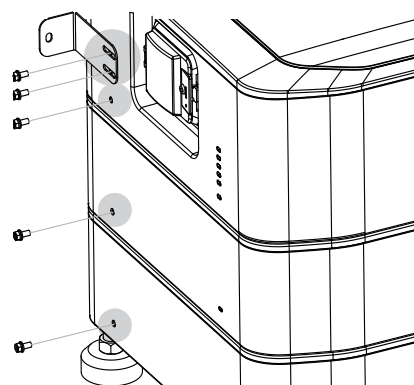
Voorzie de onderste module van vier voetsteunen **(3)**
(voetsteunen worden meegeleverd in de doos van het top pack)



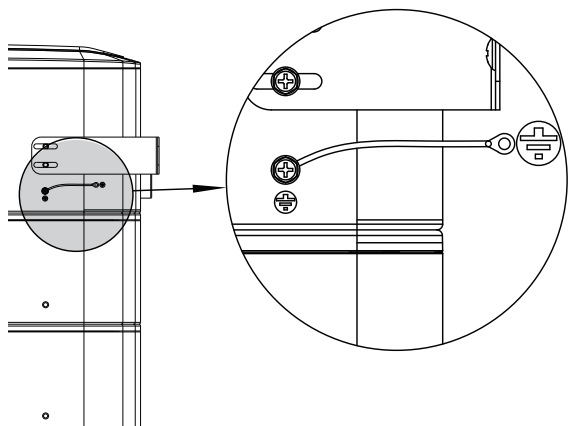
Plaats contrastekker **(8)**
(stekker wordt meegeleverd in de doos van het top pack)



Packs stapelen, stapel het top pack als laatste

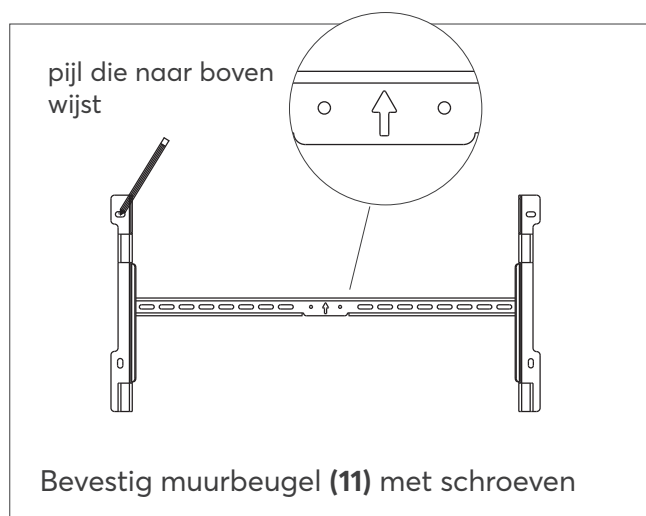
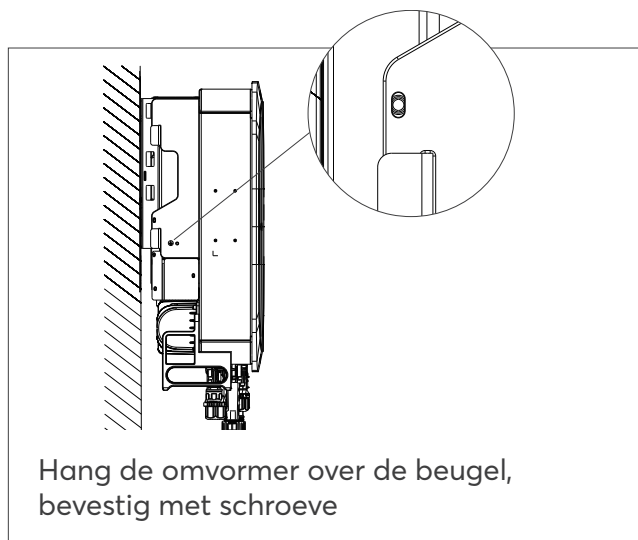
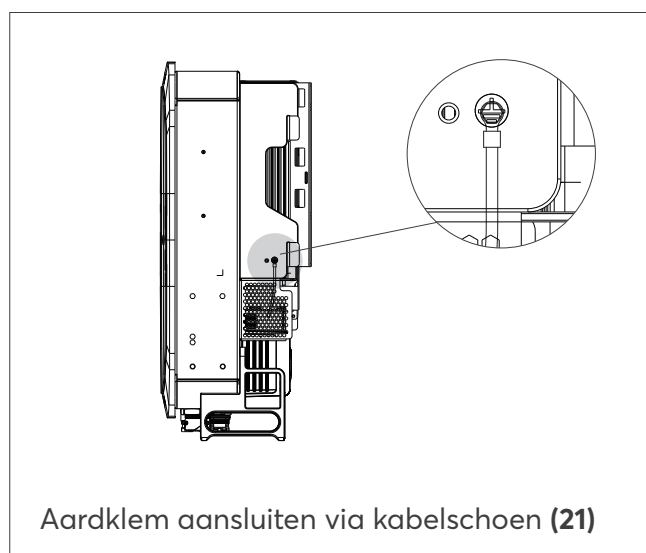
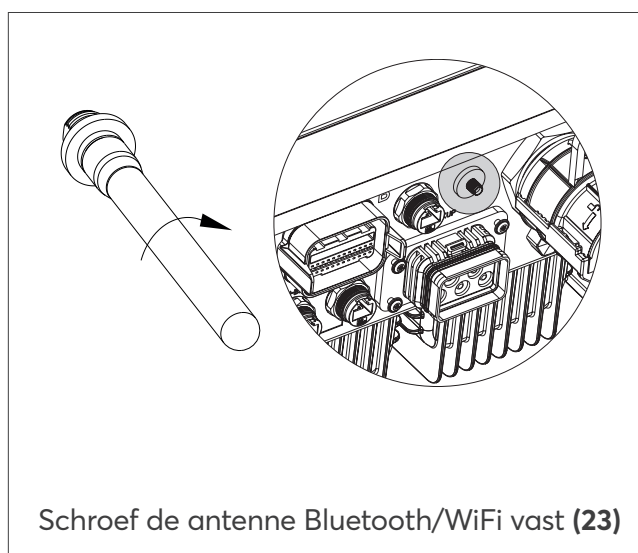


Bevestig het top pack eerst met de bevestigingsbeugel **(2)** en bevestig de packs vervolgens met de schroeven **(1)**

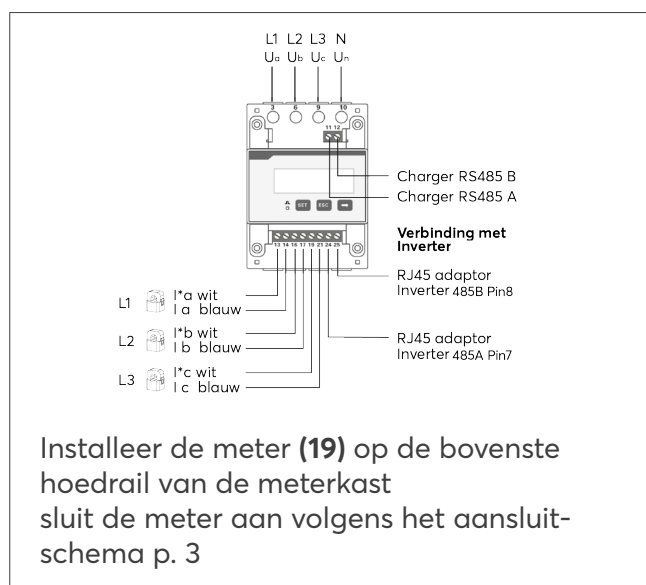
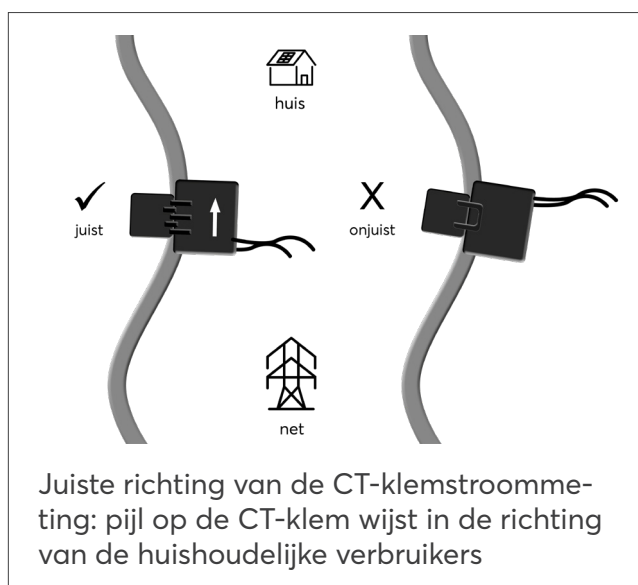


Aardingskabel aansluiten **(5)**

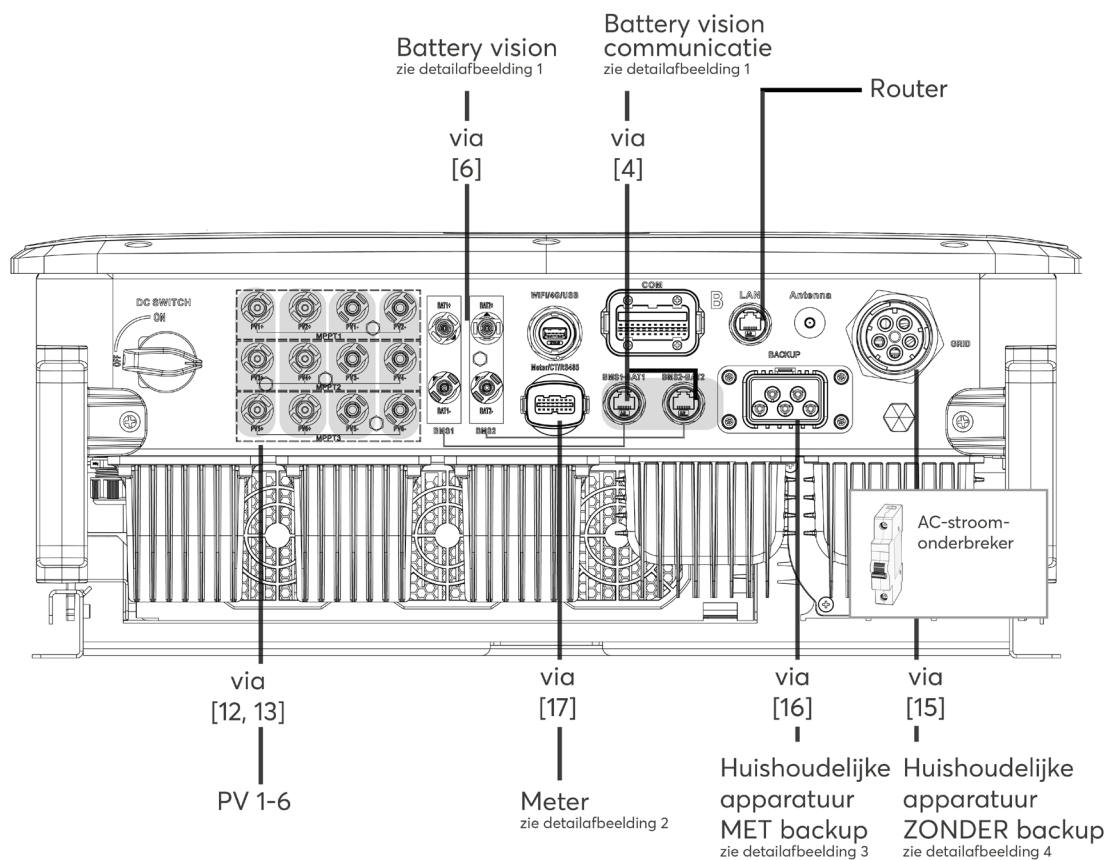
INVERTER MONTEREN EN BEDRADEN



METER MONTEREN EN BEDRADEN



BEDRADING INVERTER



- | | |
|---------------------------------------|------------------------------|
| 4 Communicatiekabel
BMS - Omvormer | 13 PV pincontacten |
| 6 DC kabel batterij | 15 AC connector Grid |
| 12 PV connectors
(MC4 Stäubli) | 16 AC connector Backup |
| | 17 Communicatie met de meter |

Vereiste kabel:

PV: 4 - 6 mm² MC4, Stäubli

AC: 15 kW: 6-10mm² 50 A
20-25 kW: 10-16mm² 63 A
30 kW 10-16mm² 80 A

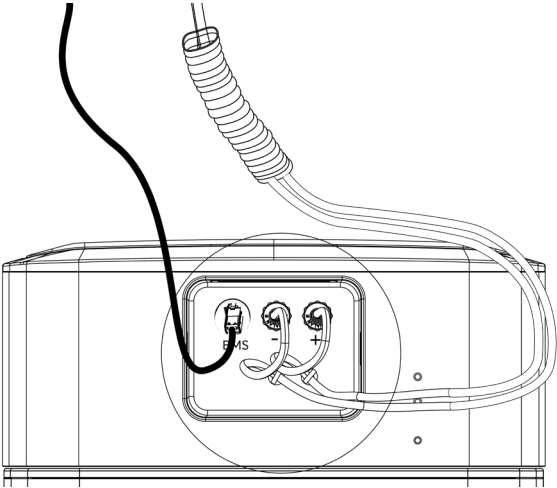
Netwerk: Standaard LAN kabel

detail 1

Omvormerinterfaces

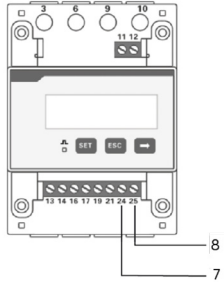
BMS

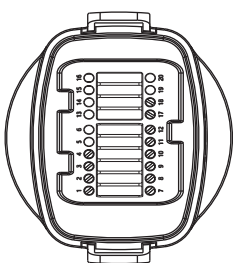
Battery



Batterij aansluiten (6, 4)

detail 2

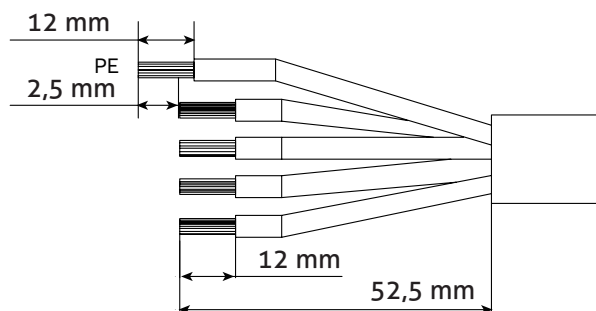
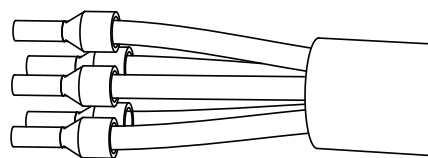




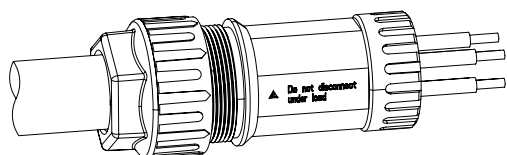
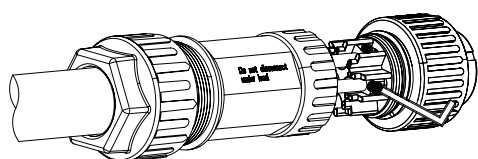
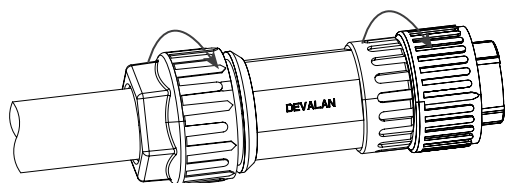
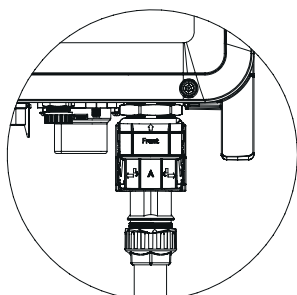
PIN meter	24	25
PIN COM plug for the inverter	7	8

Verbind meter (19, 17)

BEDRADING INVERTER



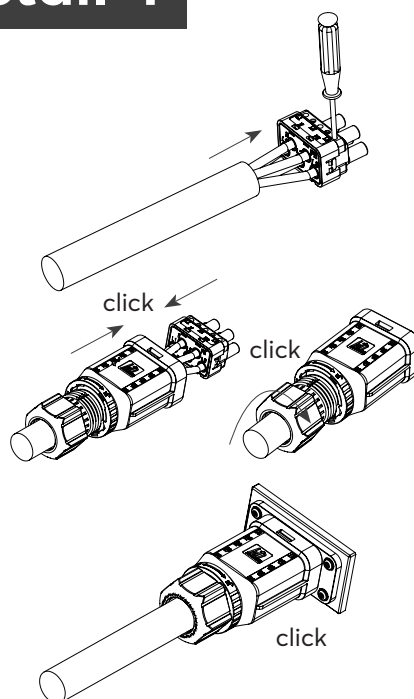
detail 3



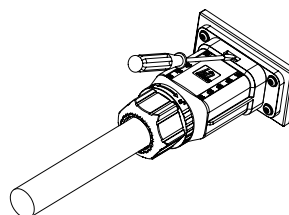
- Leid de kabel door de stekker (15)
- Steek de koperdraden in de klemmen van de stekker en draai de schroeven vast
- Draai de mantel en de borgmoer vast en sluit de stekker aan

Als de stekker opnieuw moet worden geopend, gebruik dan het ontgrendelingsgereedschap (22).

detail 4



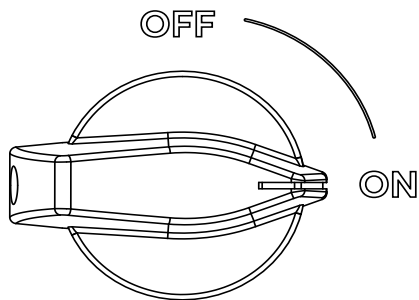
- Demonteer de connector (16)
- Sluit de kabeluiteinden aan volgens de aanduiding van de aders op de stekker
- Voer de kabel door de onderdelen van de stekker
- Zet de connector weer in elkaar en steek de stekker in het stopcontact



Als het nodig is om de connector opnieuw te openen, gebruik dan een schroevendraaier om de ontgrendelingsstand in te stellen

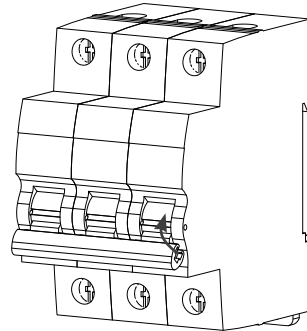
SYSTEEM OPSTARTEN

1



Draai de DC-schakelaar van de omvormer naar ON

2



Inschakelen:

- AC installatieautomaat Net
- AC installatieautomaat Backup (indien lokaal vereist)

3

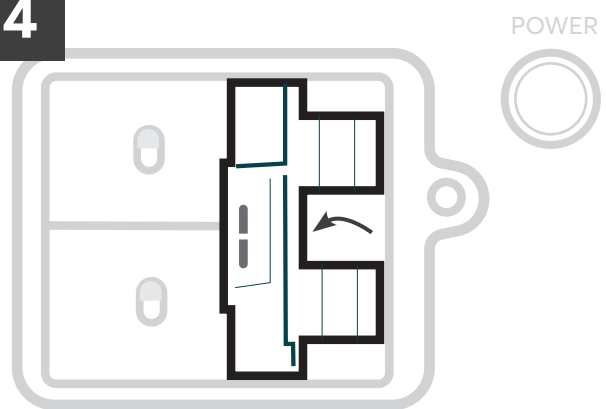


- gridcode instellen voor netveiligheid
- tijd instellen

Druk 3 sec. op de bevestigingsknop van de omvormer ☒.

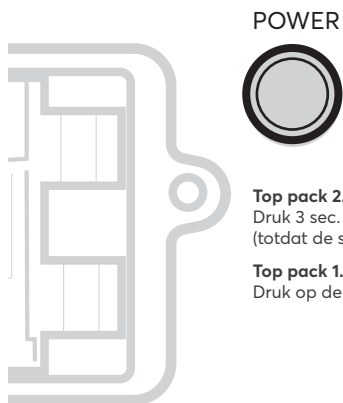
- selecteer START

4



Zet de DC-schakelaar van de accu (top pack) op ON

5



POWER



Top pack 2.0:
Druk 3 sec. op de knop (totdat de status-LED brandt)

Top pack 1.0:
Druk op de schakelaar

Druk op de POWER-knop van de accu (top pack)

Voor de eerste installatie van de omvormer heeft u geen wachtwoord nodig. Voor volgende instellingen is het wachtwoord 0000.

Wijzig het wachtwoord aan het einde van de inbedrijfstelling om de configuratie van de omvormer te beveiligen.

SOLARWATT PRO APP BINDING



Download SOLARWATT Pro app en log in met je SOLARWATT Pro account

SOLARWATT Pro app inbedrijfstellingsfuncties:

Inverter vision

- Verbind het apparaat via WiFi
- CEI 0-21 zelftest (Italië)
- Cos ϕ instellen

Charger vision

- Maak het apparaat verbindbaar via WiFi
- RFID-autorisatie
- Maximale laadstroom instellen (A)
- Laadbeheer instellen (in voorbereiding)

Detecteer en verbind de omvormer via de SOLARWATT Pro app om deze functies te gebruiken

SYSTEEM UITSCHAKELEN

1



Druk 3 sec. op de bevestigingsknop van omvormer .

- STOP selecteren

2



POWER



Top pack 2.0:

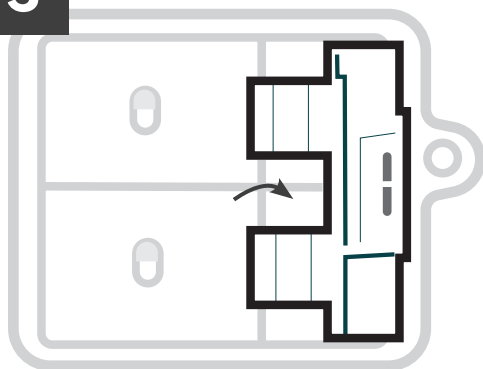
Druk 5 sec. op de knop
(totdat de status-LED uitgaat)

Top pack 1.0:

Druk op de schakelaar

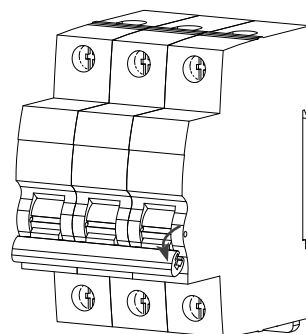
Druk op de POWER-knop van de accu
(top pack)

3



Zet batterij DC schakelaar (top pack)
op OFF

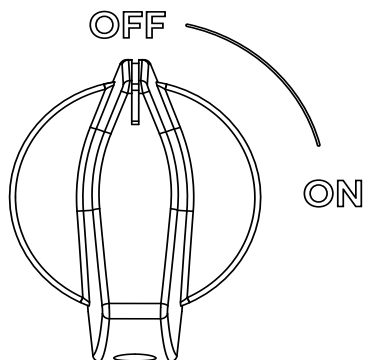
4



Uitschakelen

- AC installatieautomaat Net
- AC installatieautomaat Backup
(indien lokaal vereist)

5



Draai de DC-schakelaar van de
omvormer naar OFF

**Do you have any questions?
Please feel free to contact us.**

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**Sie haben Fragen?
Melden Sie sich gern bei uns.**

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**Vous avez une question?
N'hésitez pas à nous contacter.**

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**Se avete domande,
non esitate a contattarci.**

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**Hebt u vragen?
Neem gerust contact met ons op.**

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Disposal as dangerous good via your installer



Disposal as electronic waste



Elimination comme produit dangereux par l'installateur



Élimination en tant que déchet électronique



Smaltimento come bene pericoloso tramite il vostro installatore



Smaltimento come rifiuto elettronico



Verwijdering als gevaarlijk goed via uw installateur



Verwijdering als elektronisch afval

