

Quick Start Guide (EN)



modual AG – V3.3

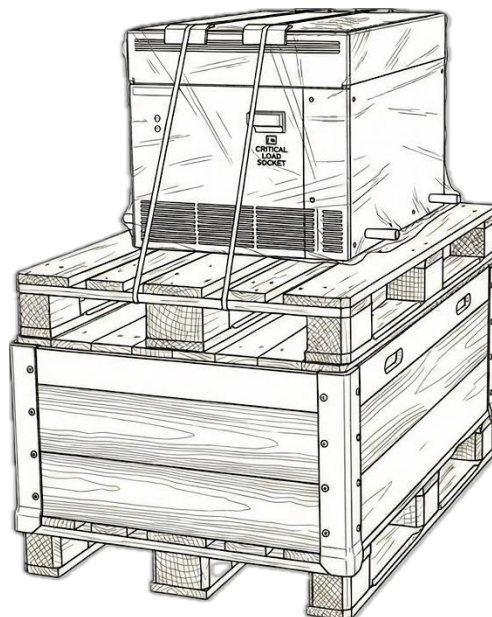


Full-Guide

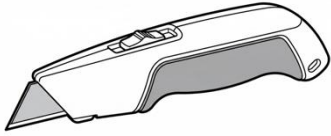
Scope of Delivery

Item (AC Unit)	Qty
Service panel	1
M5 Torx mounting screws	4
Housing cover (yellow)	1
AC Unit	1
Base plate	1

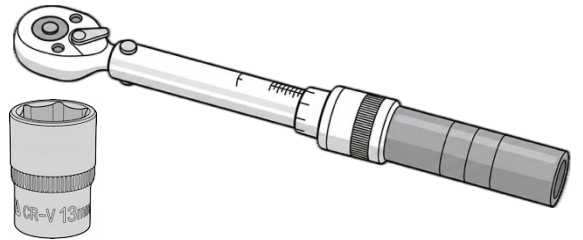
Item (Powerunit)	Qty (x Power units)
Housing front cover (white)	1
BMS communication cable (RJ45)	1
BMS Y-cable (green connector)	1
Cell modules	2
Battery connection cable (black)	1
Battery connection cable (red)	1
M5 Torx mounting screws	10
Housing PowerUnit	1



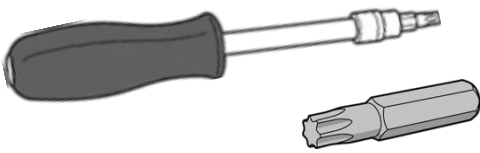
Tools



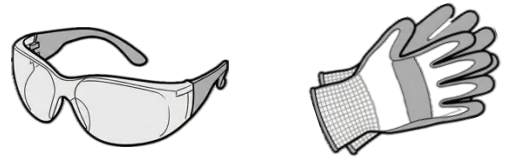
Utility knife



Torque Wrench (10Nm)
Socket (13mm)



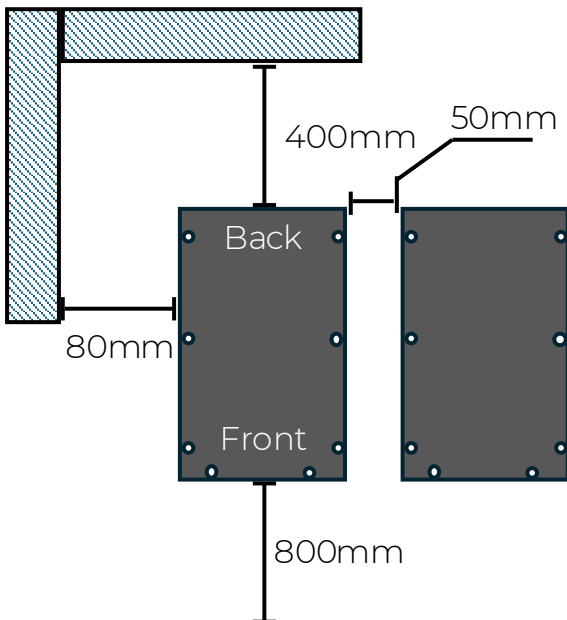
Screw driver
Torx T25



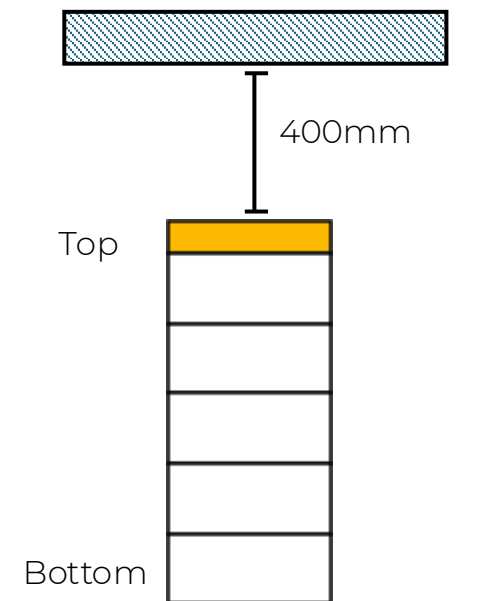
Safety equipment

Requirements

Top/Down View



Side View

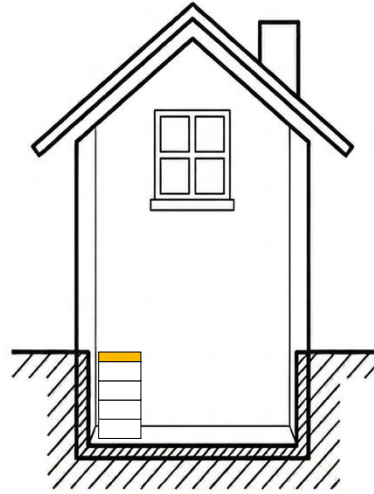


Requirements

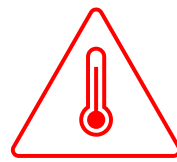
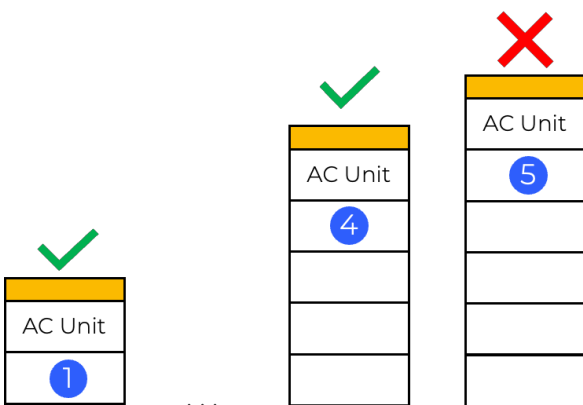
Garage



Cellar



Limitations



Max: +40°C



Min: +5°C



RH: +5%~ +95%

Amount modules:
Min: 1 / Max: 4

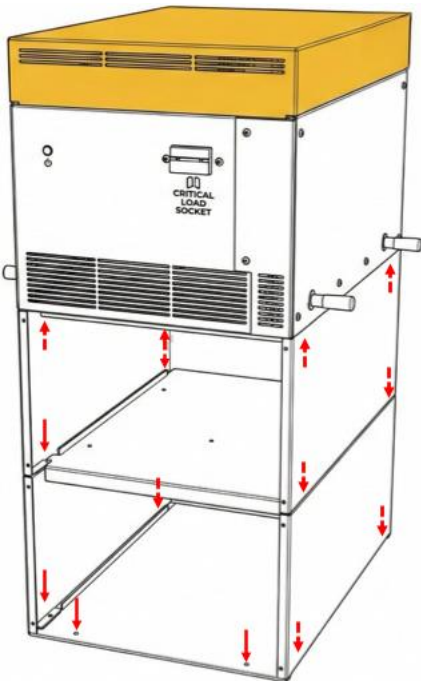
Installation



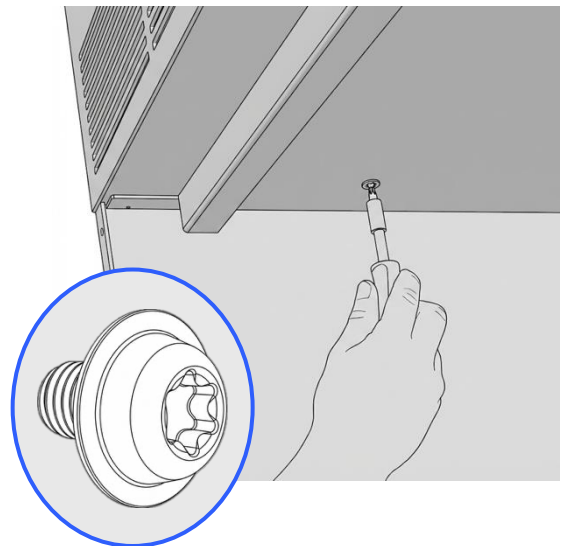
1. Place the housing on the base plate and fasten it (see step 3).



2. Lift the AC unit onto the housing.

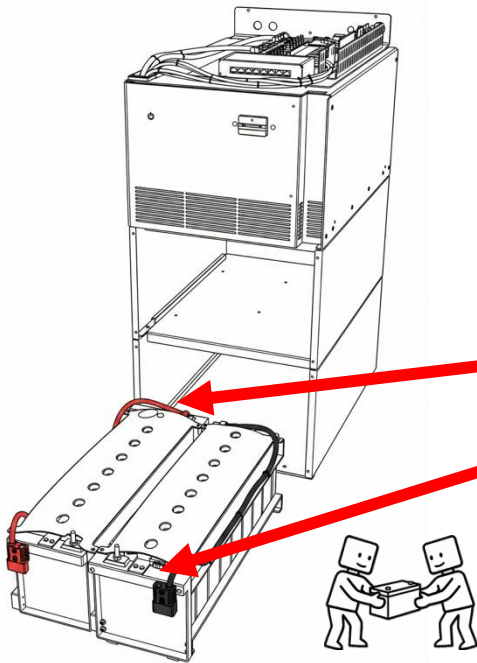


3. Bolt the housing together. Remove the AC unit top cover and service panel.

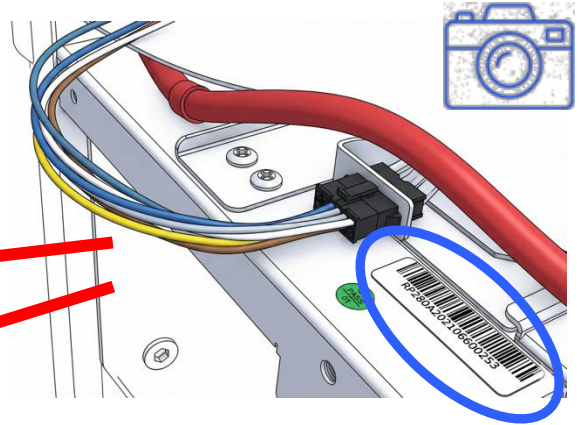


Note: Fit housing top from below using 4x M5 screws.

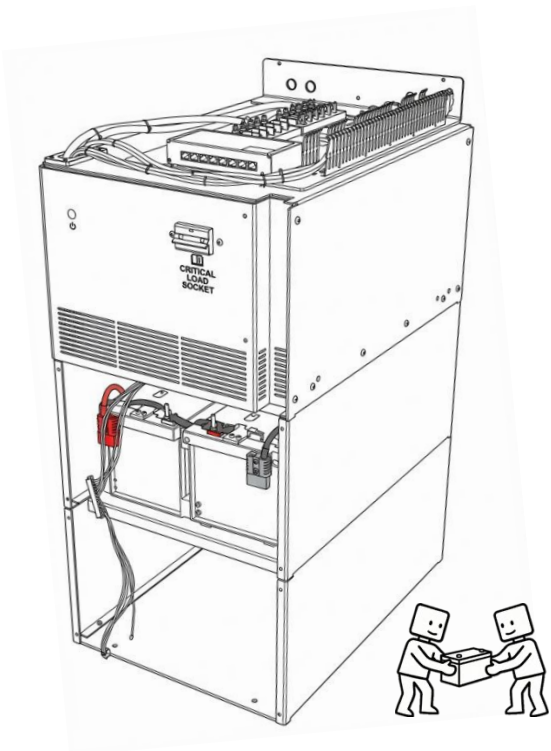
Installation



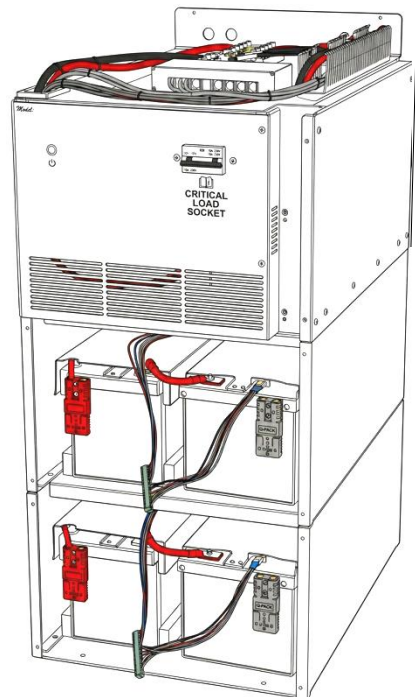
4. Place two modules in front:
+ (red) left, - (black) right.



5. **IMPORTANT:** Install the **PowerBoard connector** on the module with the yellow label, then photograph the nearby barcode for your registration form.

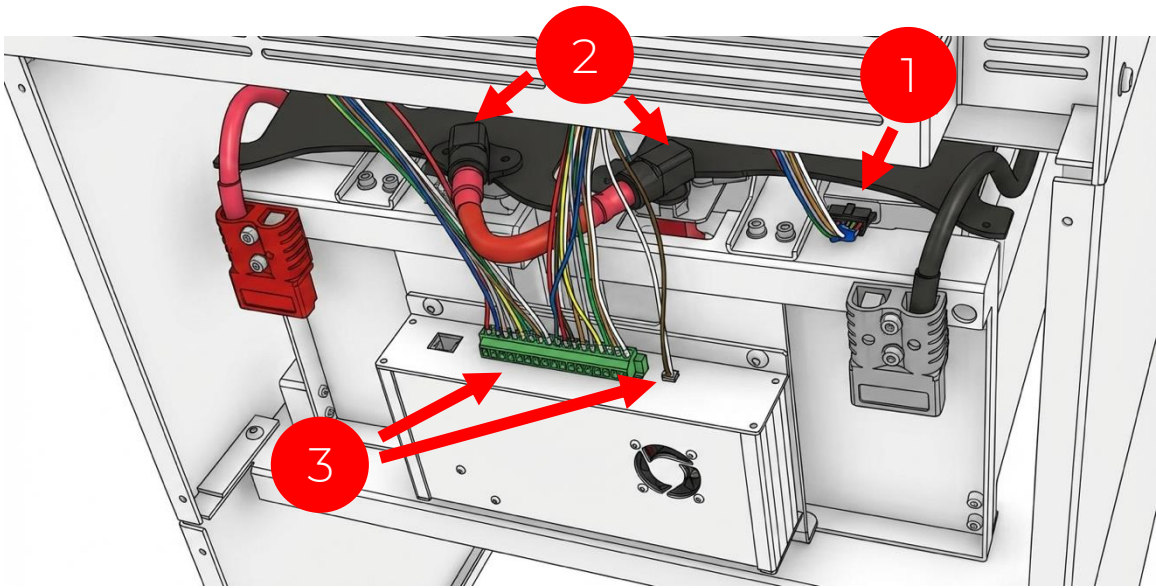


6. Slide the modules into the housing.

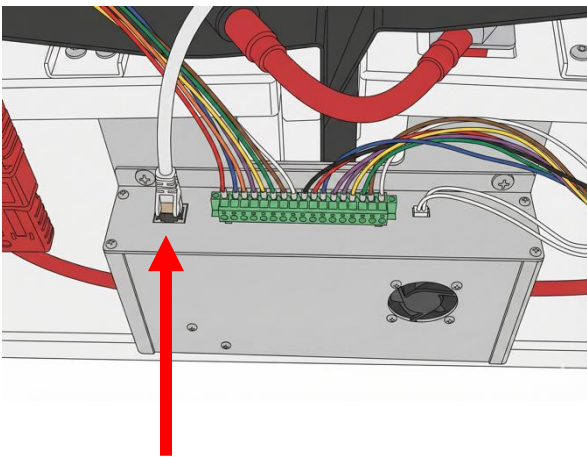


7. Repeat for the remaining modules.

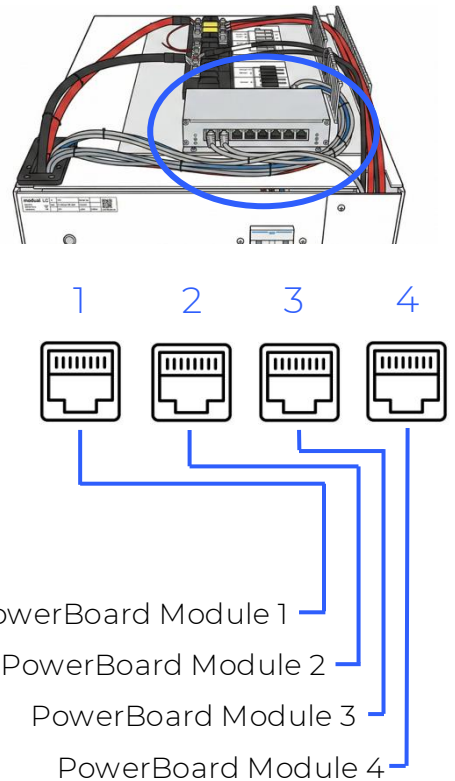
Installation



8. (1) Connect PowerBoard cable to black module. (2) Link modules with red press cable. (3) Connect PowerBoard to green/white plugs.

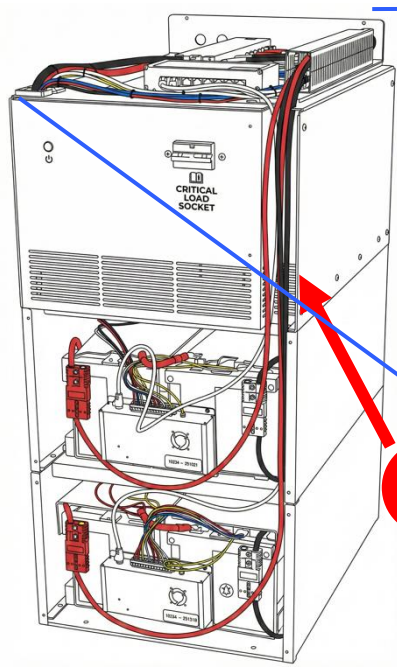


9. Connect LAN cable(s) from AC control unit to each module PowerBoard.



Installation

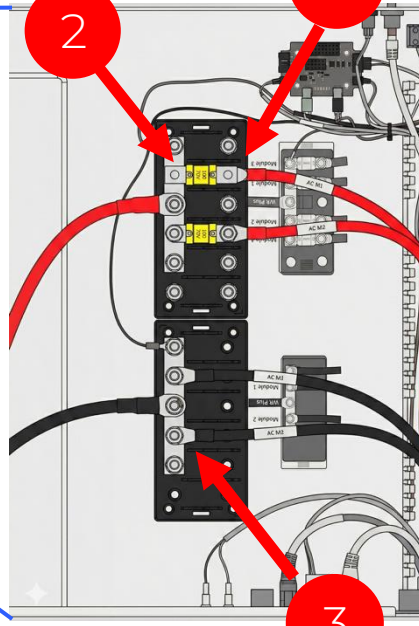
1



2

2

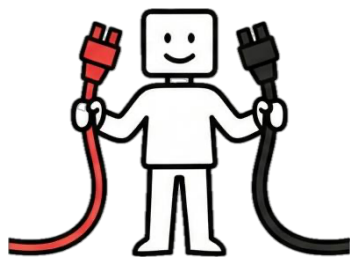
1



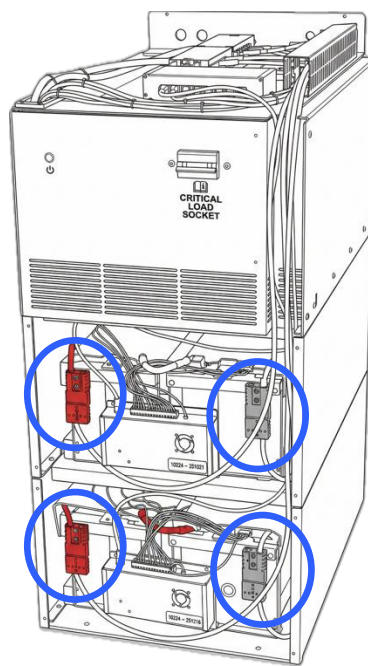
3

If needed: (1) remove inverter top, then (2) remove front cover (2 screws).

10. (1) Fit **red (+)** cables. (2) Install **yellow** breakers; tighten to 10 Nm. (3) Fit **black (-)** cables; tighten to 10 Nm.

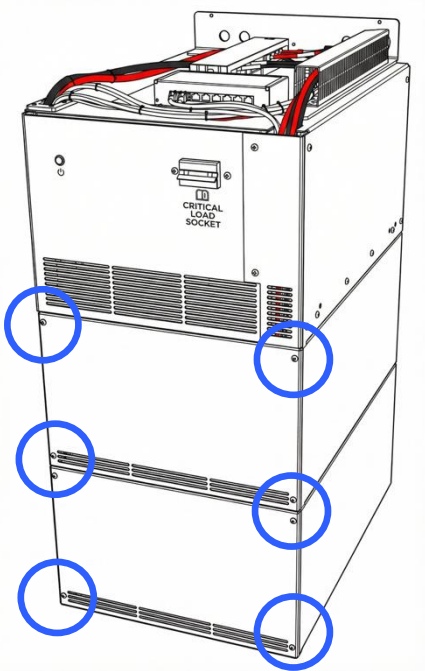


Before continuing, secure power cables to the AC unit (see Step 10)

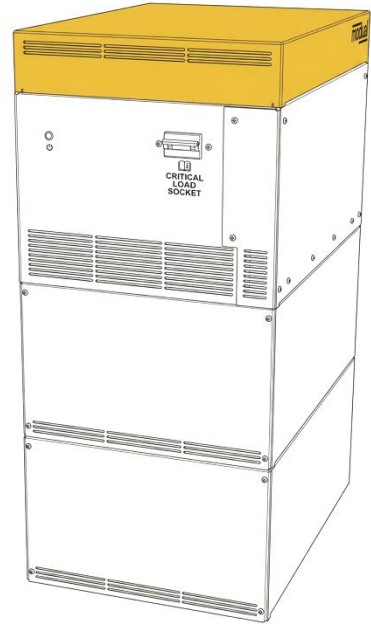


11. Connect **red/black** power cables from modules to the red/grey connectors.

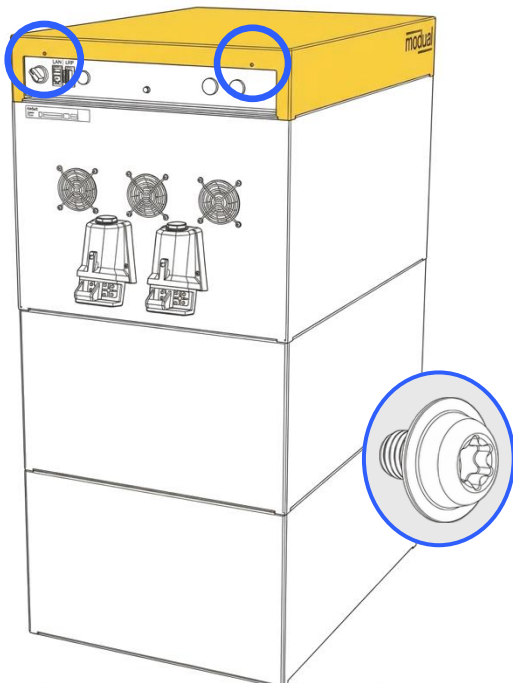
Installation



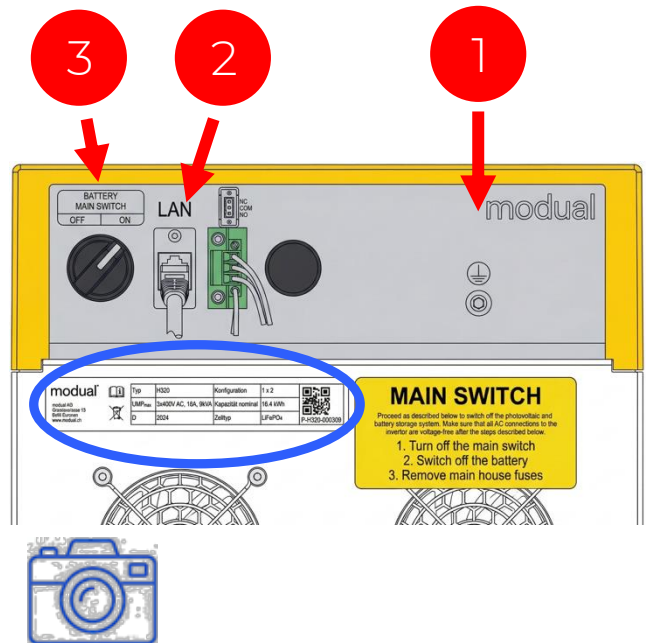
12. (1) Install the front covers with M5 screws (4 per Powerunit)



13. Install the top cover of the AC unit and the service panel.

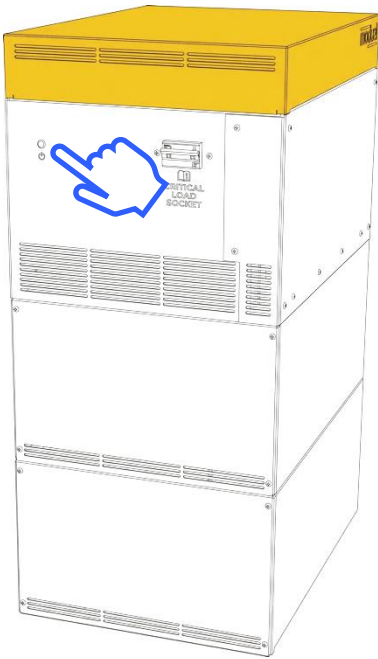


14. Mount the top cover with 2x M5 screws

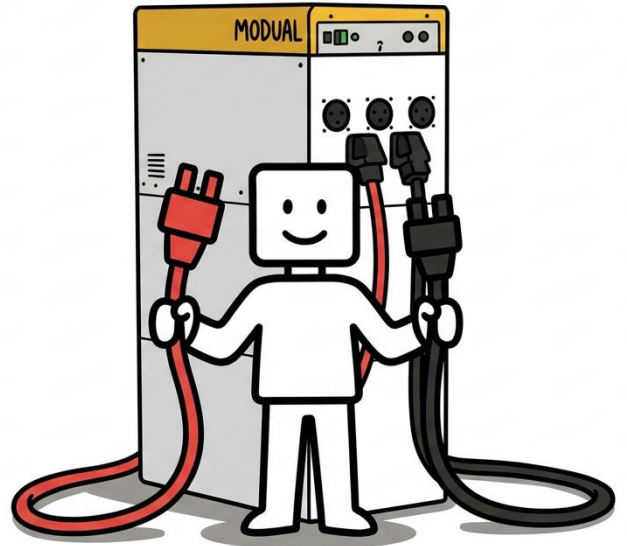


15. (1) Connect the equipotential bonding conductor (2) LAN-cable (3) turn on the battery main switch, then photograph the label on the back for the registration form

Installation



16. Turn on the power button

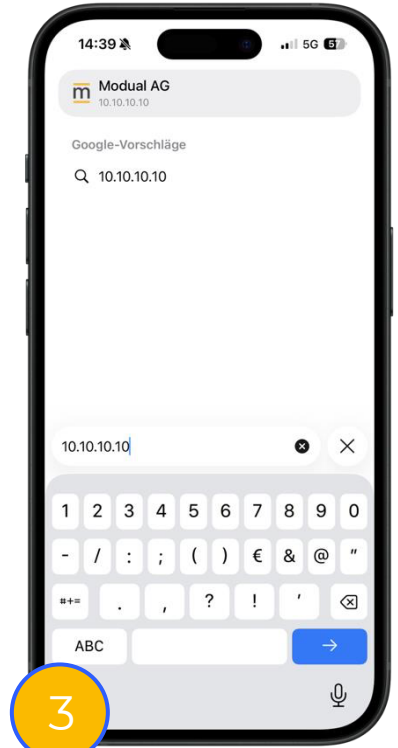


Installation Complete

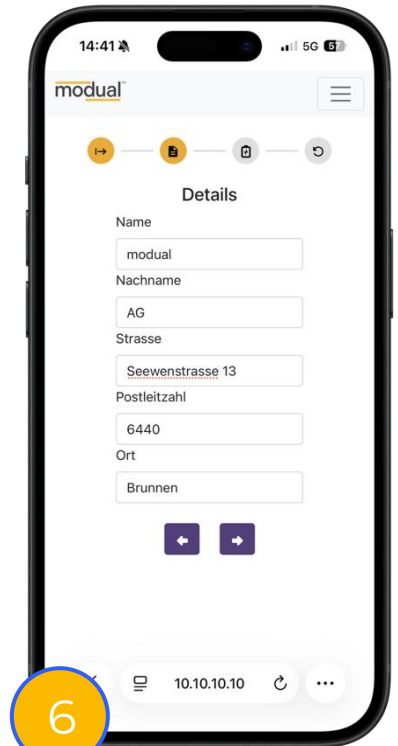
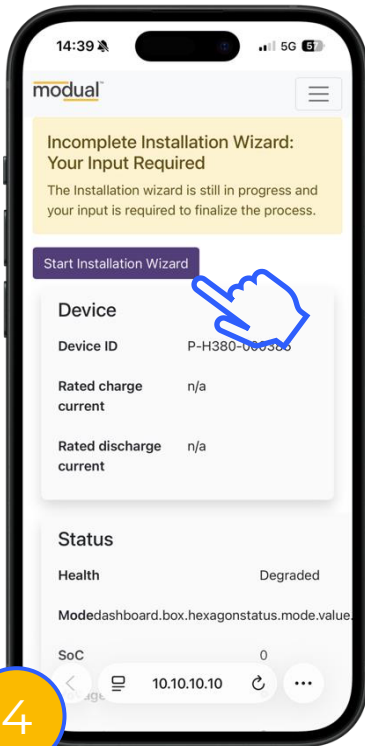
Configuration



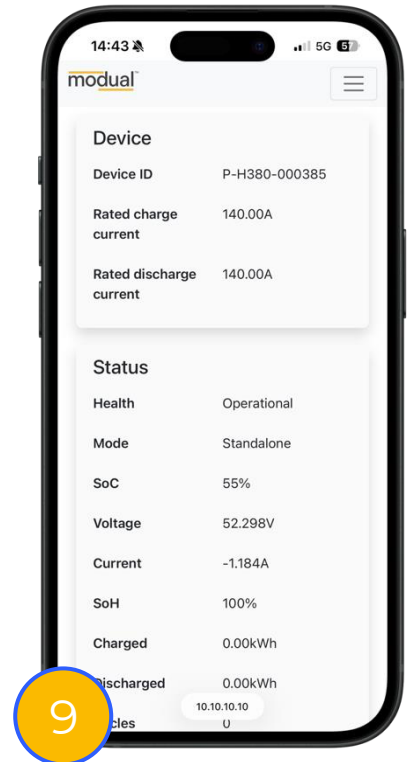
Password:
battery_storage



Open Safari/Chrome.
Type: 10.10.10.10



Configuration



Setup Complete

modual AG

Seewenstrasse 13
6440 Brunnen
+41 41 244 05 50
www.modual.ch

Technical Support
+41 41 244 05 55
kundendienst@modual.ch

Storage Registration Form

Serial Number of the Energy Storage / Commissioning Date

Serial Number		Commissioning Date	
---------------	--	--------------------	--

Serial Numbers of Battery Modules (Barcode)

Module 1	A B	Module 2	A B
Module 3	A B	Module 4	A B

Information about the Authorized Operator (Owner)

Last Name, First Name	
Address	
Email	
Phone	

Information about the Responsible Installer / Partner

Company	
Last Name, First Name	
Address	
Email	
Phone	

Confirmation

With their signature, the installer and/or partner confirms that the energy storage system has been professionally connected, installed in accordance with the installation conditions, and commissioned.

Place, Date, Signature	
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The fully completed form must be submitted either electronically (kundendienst@modual.ch) or by post to Modual AG. Submission must be made within 30 days of successful installation.

Schnellstartanleitung (DE)



modual AG – V3.3

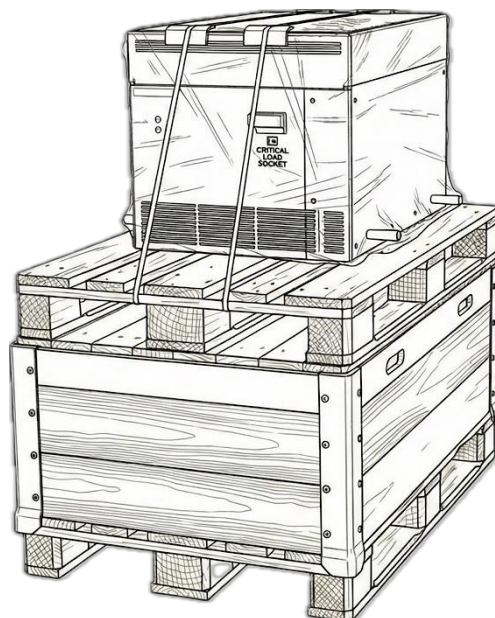


Vollständige
Anleitung

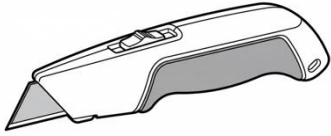
Lieferumfang

Artikel (AC Unit)	Menge
Servicepanel	1
M5-Torx-Befestigungsschrauben	4
Gehäuseabdeckung (gelb)	1
AC Unit	1
Grundplatte	1

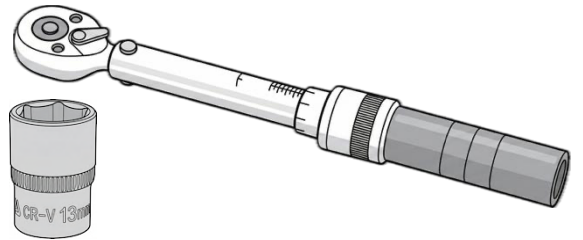
Artikel (Powerunit)	Menge (x Power units)
Gehäuse-Frontabdeckung (weiss)	1
BMS-Kommunikationskabel (RJ45)	1
BMS-Y-Kabel (grüner Steckverbinder)	1
Zellmodule	2
Batterie Verbindungskabel (schwarz)	1
Batterie Verbindungskabel (rot)	1
M5-Torx-Befestigungsschrauben	10
Gehäuse PowerUnit	1



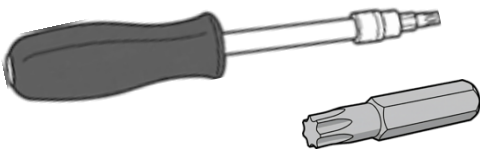
Werkzeuge



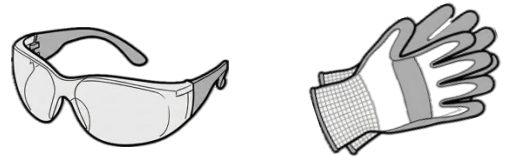
Cuttermesser



Drehmomentschlüssel (10 Nm)
Stecknuss (13mm)



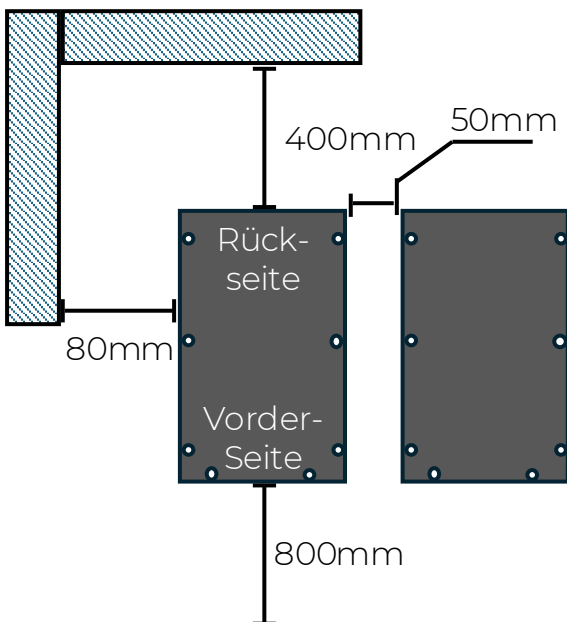
Schraubenzieher
Torx T25



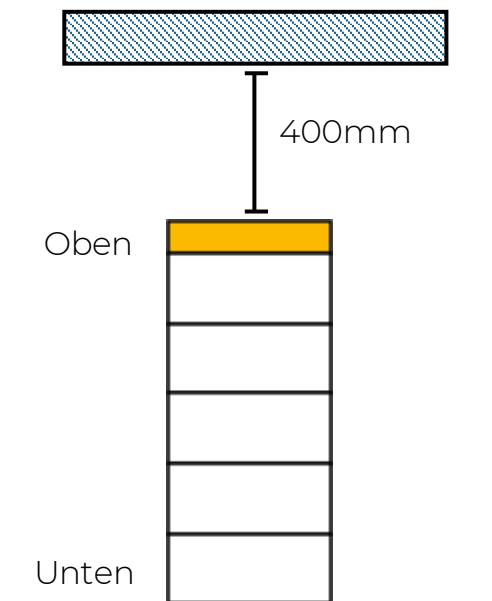
Schutzausrüstung

Anforderungen

Draufsicht



Seitenansicht

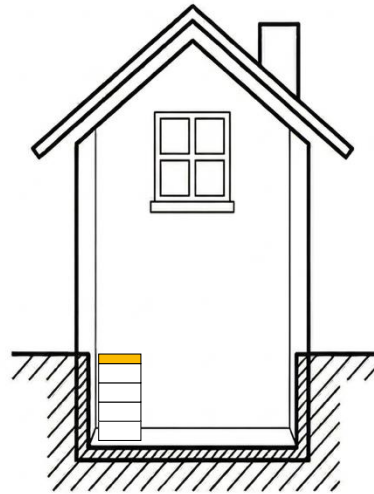


Anforderungen

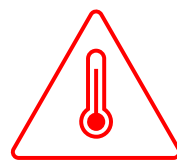
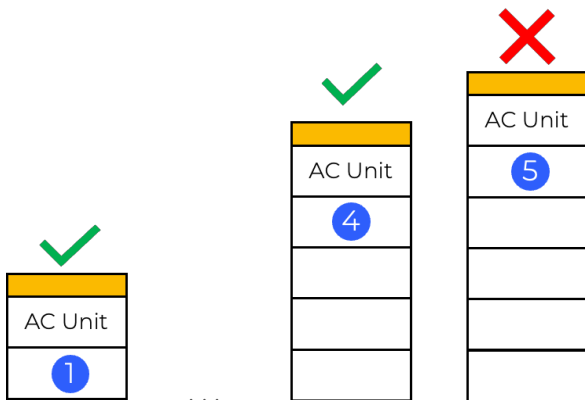
Garage



Keller



Einschränkungen



Max: +40°C



Min: +5°C



Anzahl Modulen:
Min: 1 / Max: 4

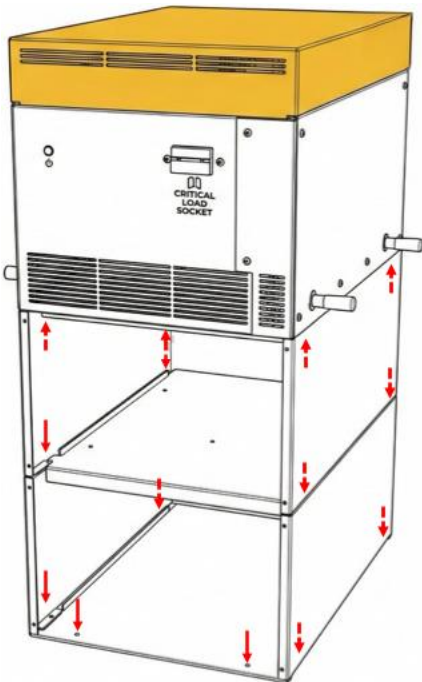
RH: +5%~ +95%



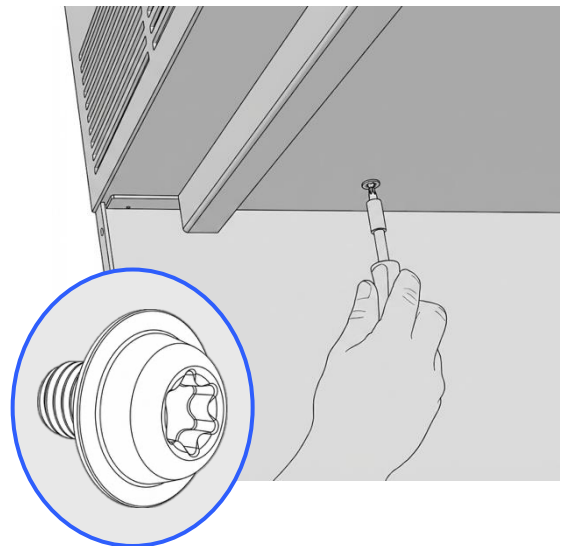
1. Gehäuse auf Grundplatte stellen und befestigen (siehe Schritt 3).



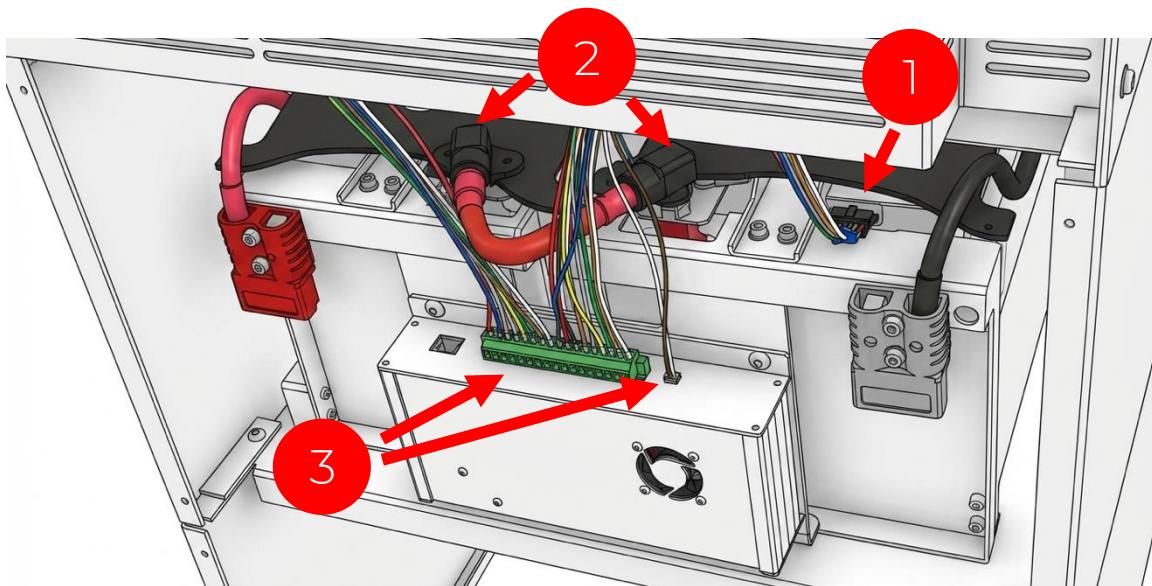
2. AC Unit auf die gehäuse heben.



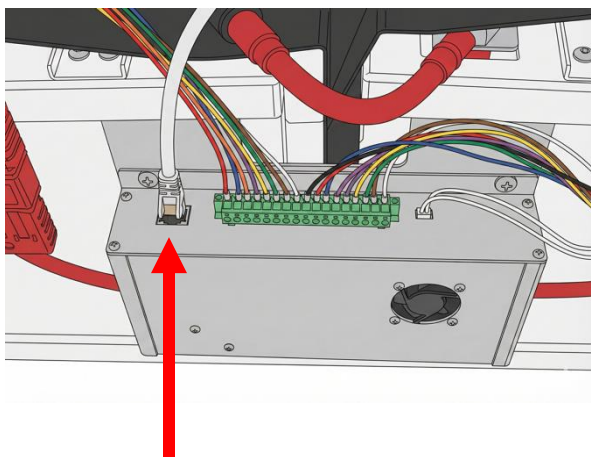
3. Gehäuse verschrauben.
Gehäuseabdeckung (Gelb) der AC Unit und Service-Panel entfernen.



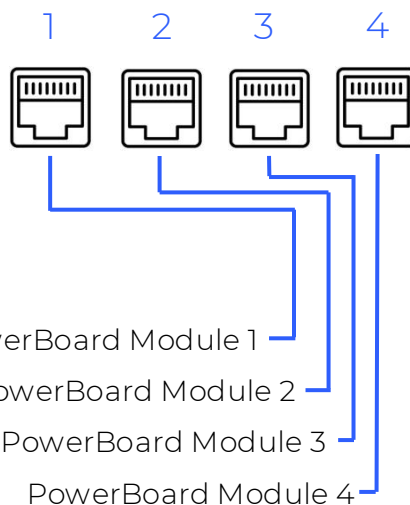
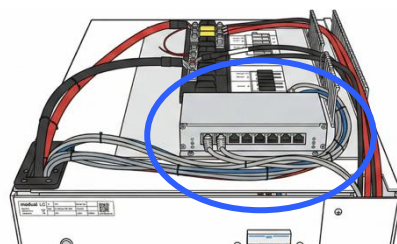
Hinweis: Montieren Sie die AC Unit von unten mit 4x M5-Schrauben.



8. (1) Schliessen das PowerBoard-Kabel an das schwarze Modul an. (2) Verbinden die Module mit dem roten Presskabel. (3) Schliessen das PowerBoard an die grün/weissen Stecker an.

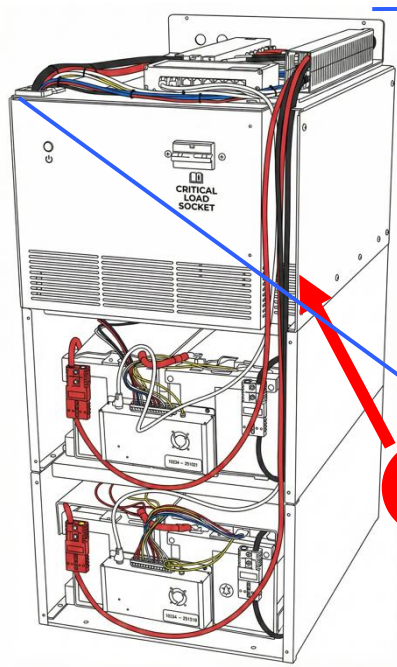


9. Schliess das LAN-Kabel von der AC-Steuereinheit an jedes Modul-PowerBoard an.



Installation

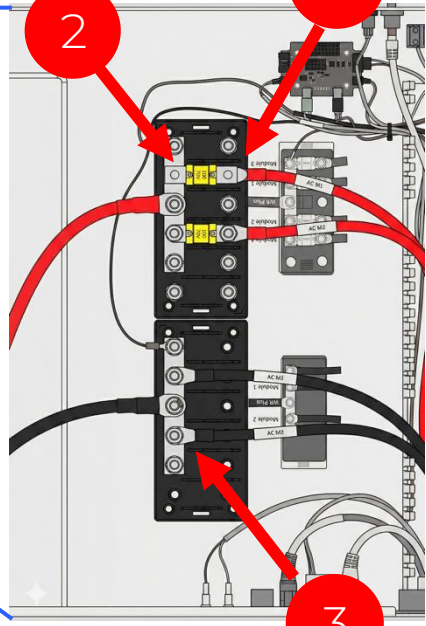
1



2

2

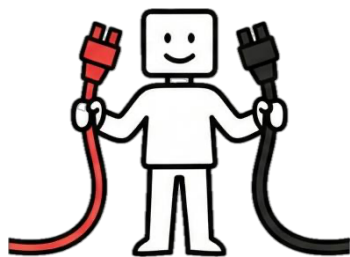
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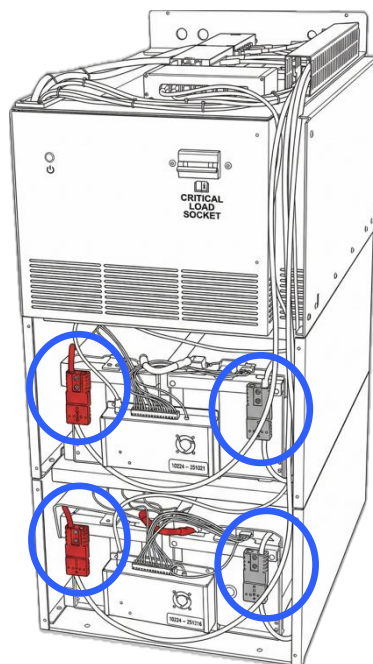
3

(1) Obere Inverter-Abdeckung entfernen (2) Frontabdeckung entfernen

10. (1) **Rote** (+) Kabel montieren. (2) **Gelbe** Sicherung montieren; 10 Nm anziehen. (3) **Schwarze** (-) Kabel montieren; 10 Nm anziehen.

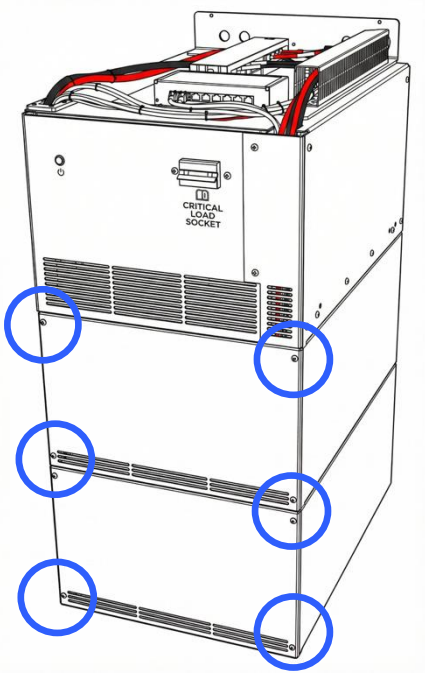


Vor dem Fortfahren: Stromkabel an der AC Unit befestigen (siehe Schritt 10)

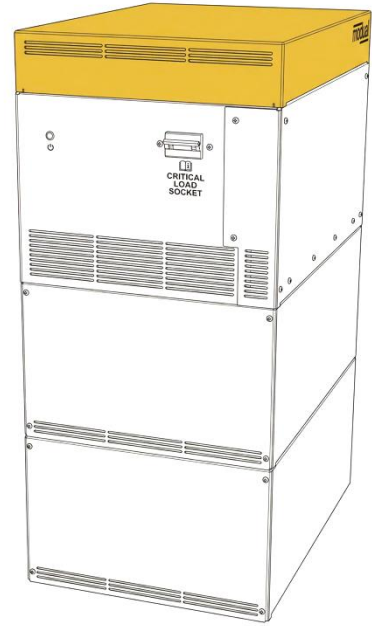


11. **Rote/schwarze** Stromkabel der Module an die roten/grauen Steckverbinder anschliessen.

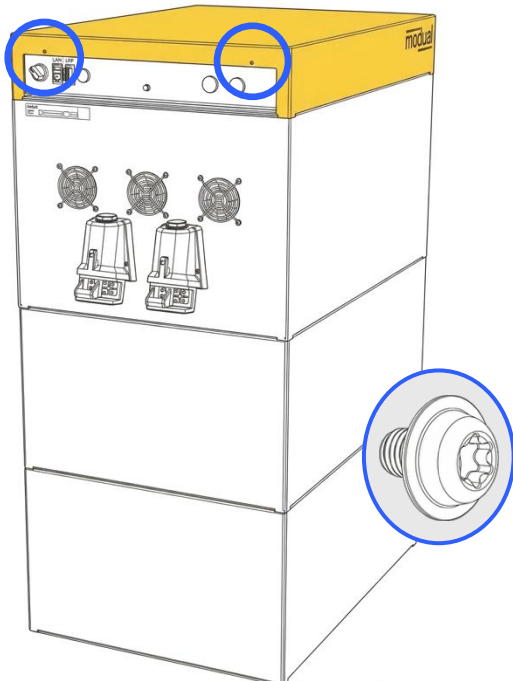
Installation



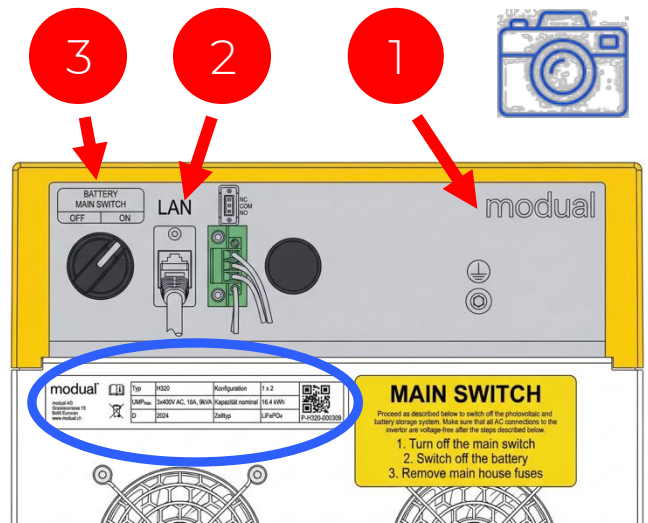
12. Frontabdeckungen mit M5-Schrauben montieren (4 pro PowerUnit).



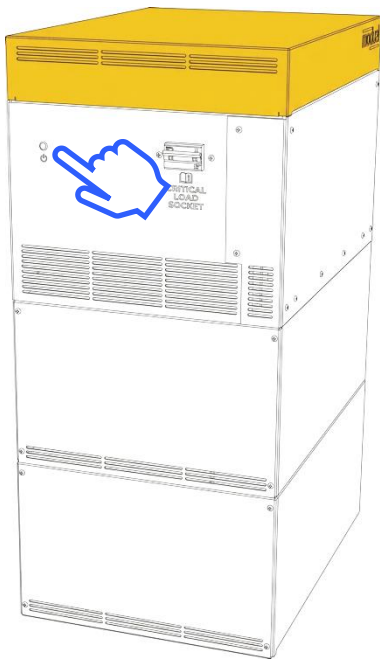
13. Gehäuseabdeckung (Gelb) der AC Unit und Servic-Panel montieren.



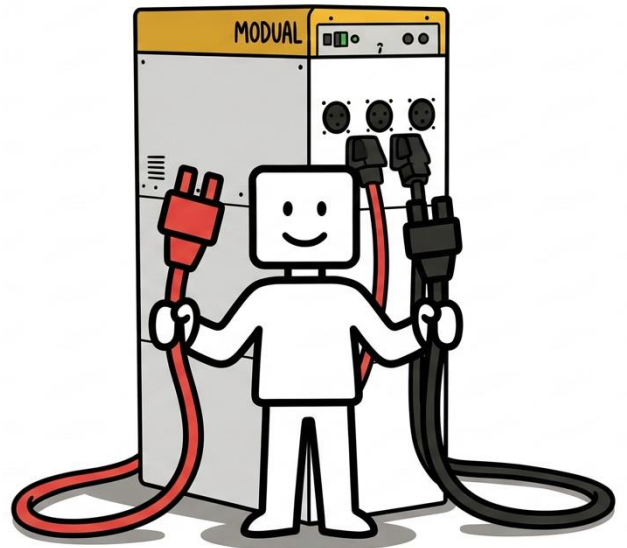
14. Obere Abdeckung mit 2x M5-Schrauben befestigen.



15. (1) Potentialausgleichleiter anschliessen (2) LAN-kabel verbinden (3) Batterie-Hauptschalter einschalten. **Hinweis:** Seriennummer für Registrierung erforderlich



16. Ein-/Aus-Knopf betätigen

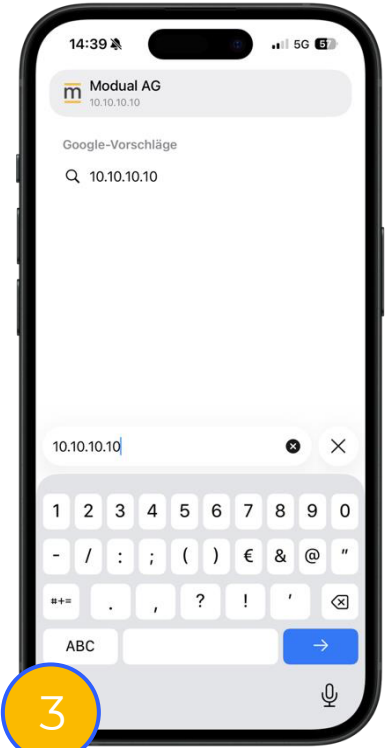


Installation abgeschlossen

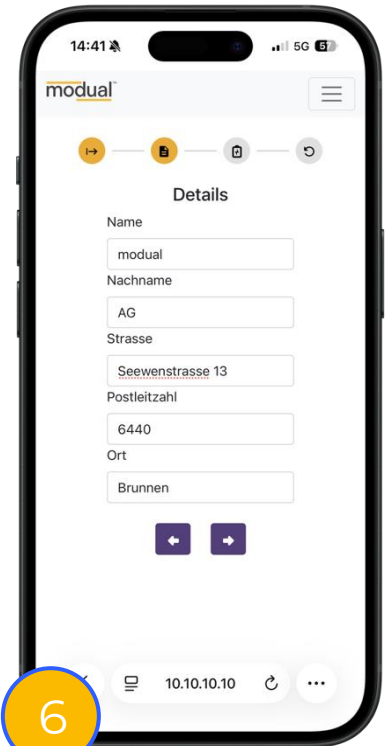
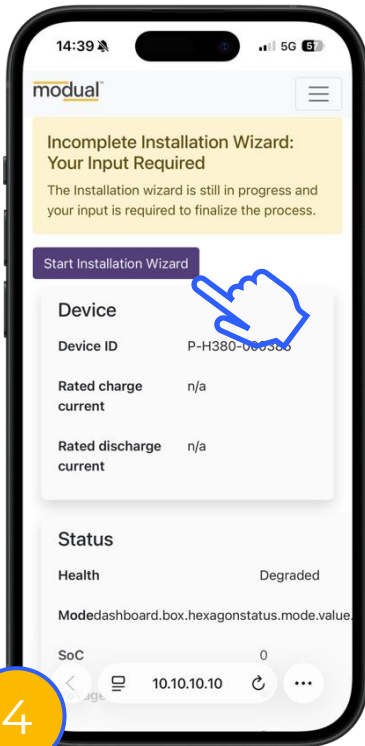
Konfiguration



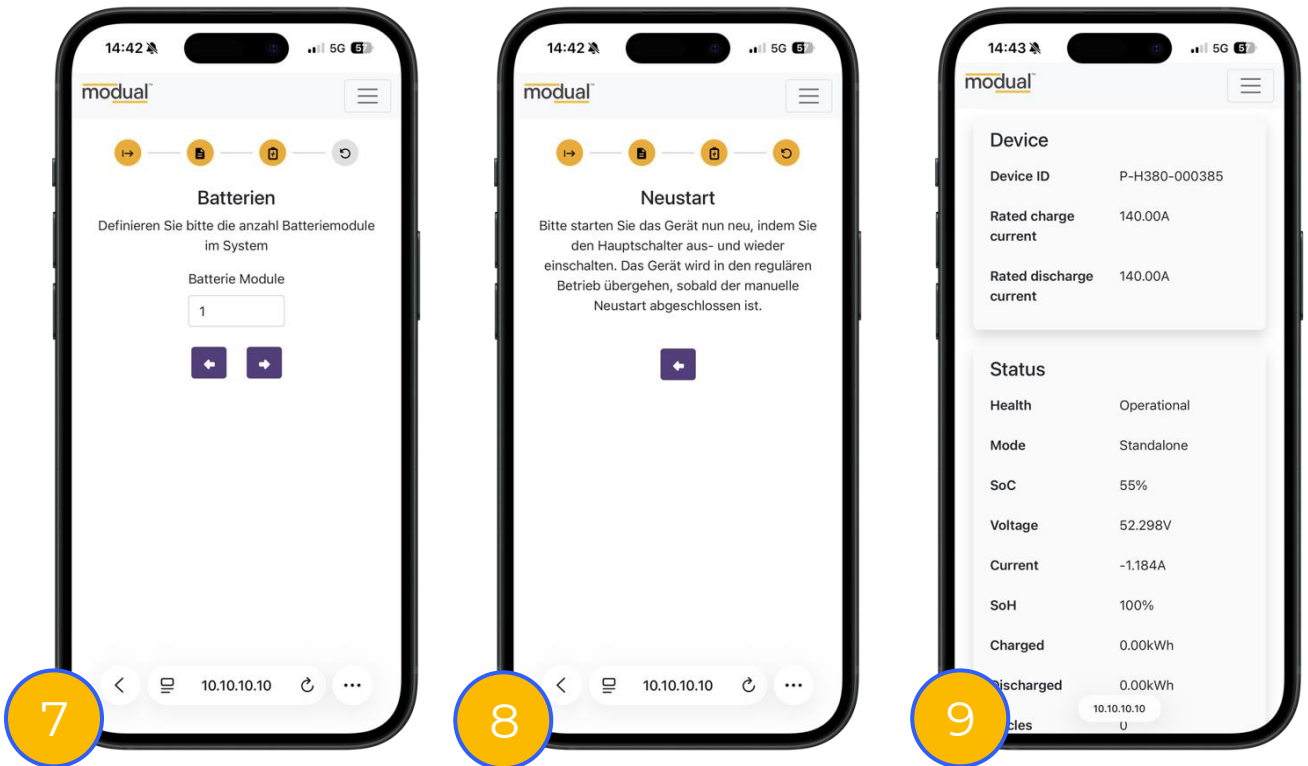
Passwort:
battery_storage



Safari/Chrome öffnen.
Eingabe: 10.10.10.10



Konfiguration



Einrichtung abgeschlossen

modual AG

Seewenstrasse 13
6440 Brunnen
+41 41 244 05 50
www.modual.ch

Technischer Support
+41 41 244 05 55
kundendienst@modual.ch

Speicher-Registrierungsformular

Seriennummer des Energiespeichers/Inbetriebnahmedatum

Seriennummer		IBN Datum	
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Seriennummer der Batteriemodule (Barcode)

Modul 1	A B	Modul 2	A B
Modul 3	A B	Modul 4	A B

Angaben zum garantieberechtigten Betreiber (Besitzer)

Name, Vorname	
Adresse	
Email	
Telefon	

Angaben zum zuständigen Installateur/Fachpartner

Firma	
Name, Vorname	
Adresse	
Email	
Telefon	

Bestätigung

Mit seiner Unterschrift bestätigt der Installateur und/oder Fachpartner, dass der Energiespeicher fachmännisch angeschlossen und gemäss den Aufstellbedingungen aufgestellt und in Betrieb genommen wurde.

Ort, Datum, Unterschrift	
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Das vollständig ausgefüllte Formular ist entweder elektronisch (kundendienst@modual.ch) oder postalisch der Firma Modual AG zuzusenden. Die Zusendung hat innerhalb von 30 Tagen nach erfolgreicher Installation zu erfolgen.

Guide d'installation rapide (FR)



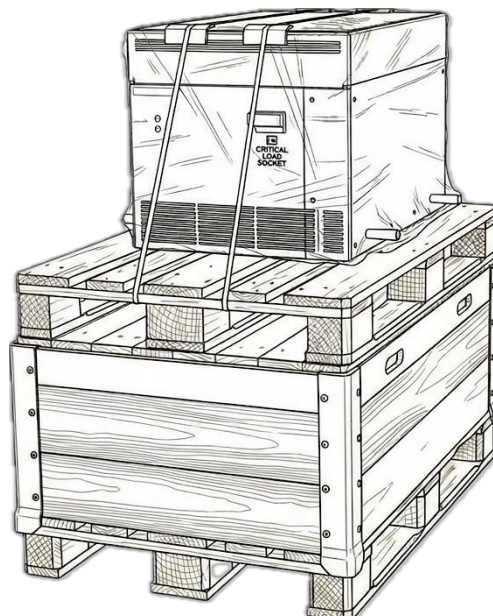
modual AG – V3.3



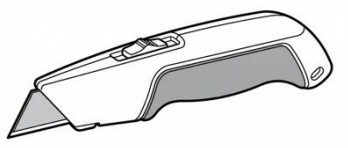
Guide complet

Article (Unité AC)	Quantité
Panneau de service	1
Vis de montage Torx M5	4
Couvercle du boîtier (jaune)	1
Unité AC	1
Plaque de base	1

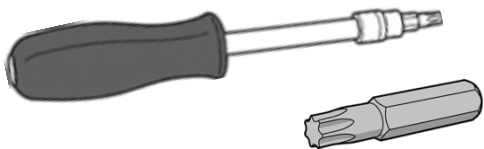
Article (Powerunit)	Quantité (x Power units)
Couvercle frontal du boîtier (blanc)	1
Câble de communication BMS (RJ45)	1
Câble Y BMS (connecteur vert)	1
Modules de cellules	2
Jeu de câbles DC (rouge + noir)	1
Câble modules (rouge)	1
Vis de montage Torx M5	10
Boîtier de powerunit	1
Disjoncteurs	1



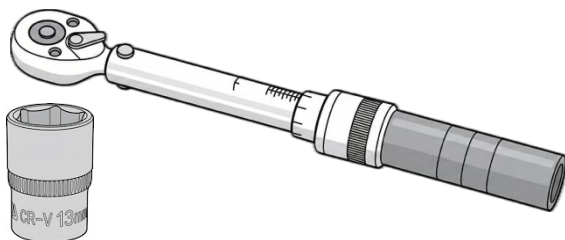
Outils nécessaires



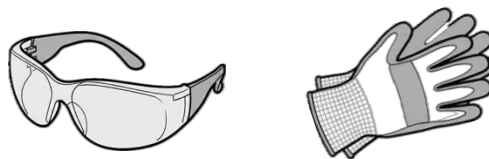
Cutter



Tounevis
Torx T25



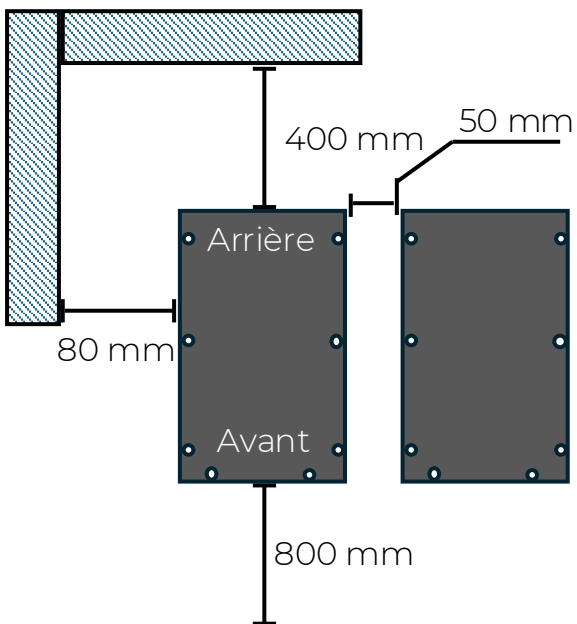
Clé dynamométrique (10 Nm)
Douille (13mm)



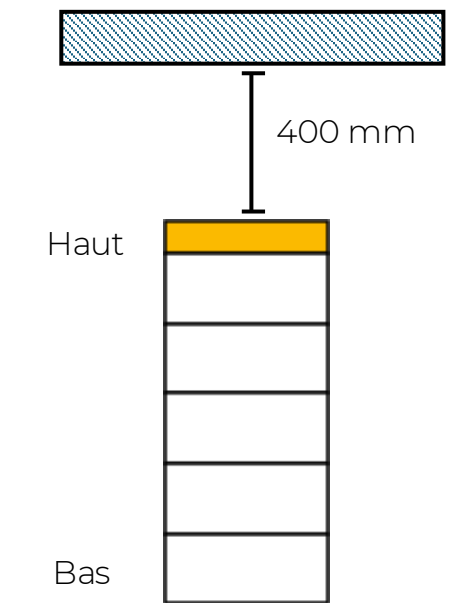
Équipement de sécurité

Outils nécessaires

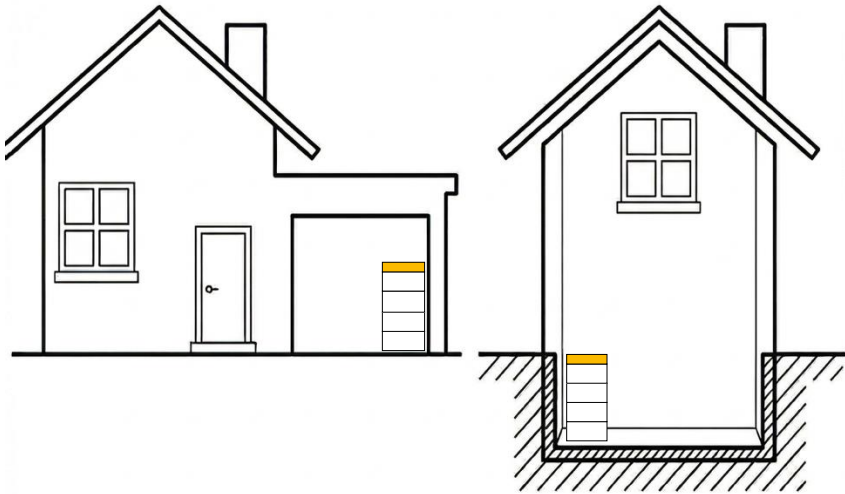
Vue de dessus



Vue Latérale



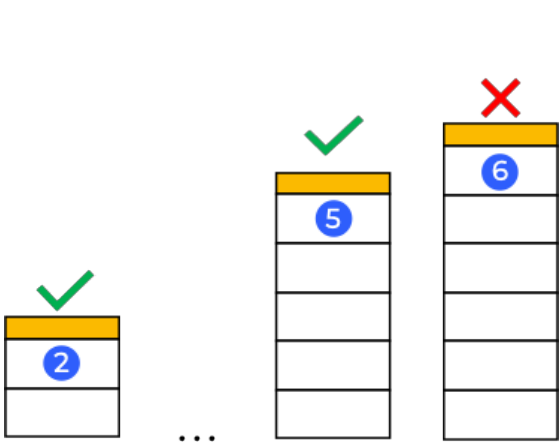
Conditions d'installation



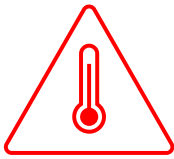
Garage

Cave

Limitations



Nombre de modules:
Min: 2 / Max: 5



Max: +40°C



Min: +5°C



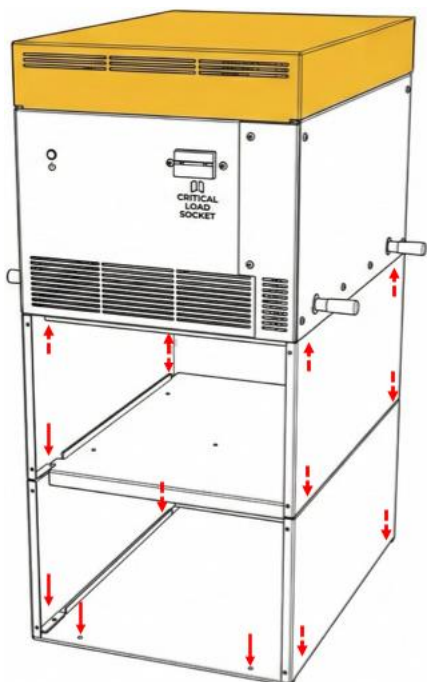
Humidité: +5%~ +95%



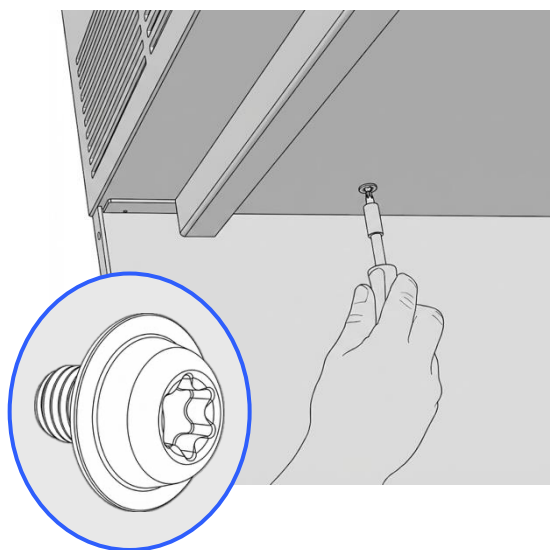
1. Placer le boîtier sur la plaque de base et le fixer (voir étape 3).



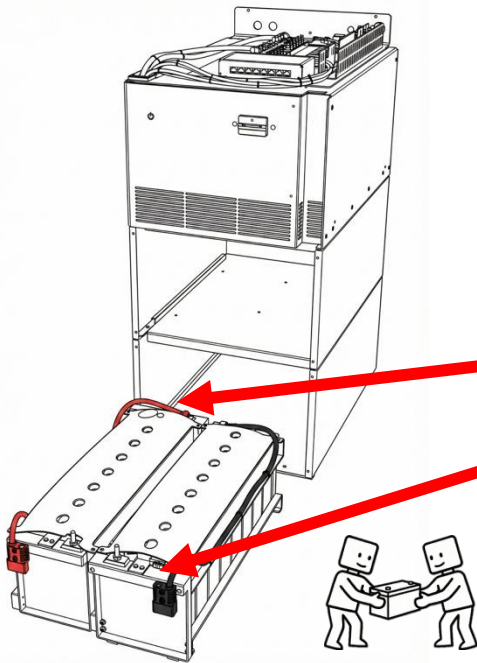
2. Soulever l'unité AC et la placer sur le/ões boîtier/s.



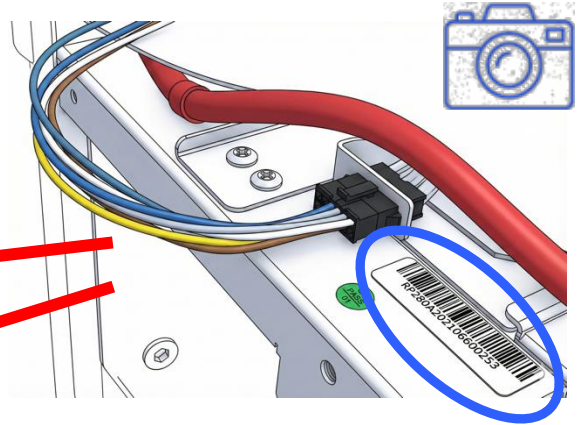
3. Visser les boîtiers ensemble. Retirer le couvercle du boîtier (jaune) et le panneau de service de l'unité AC.



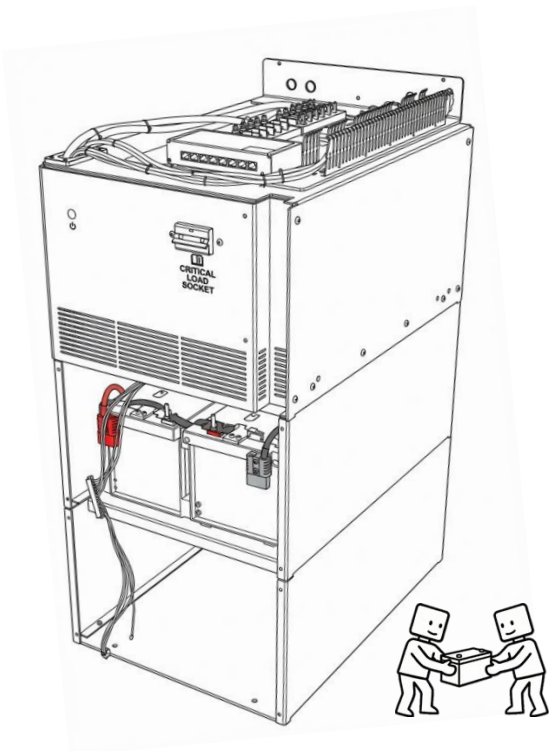
Remarque: Fixer le/les boîtier/s supérieur/s par le dessous avec 4 vis M5.



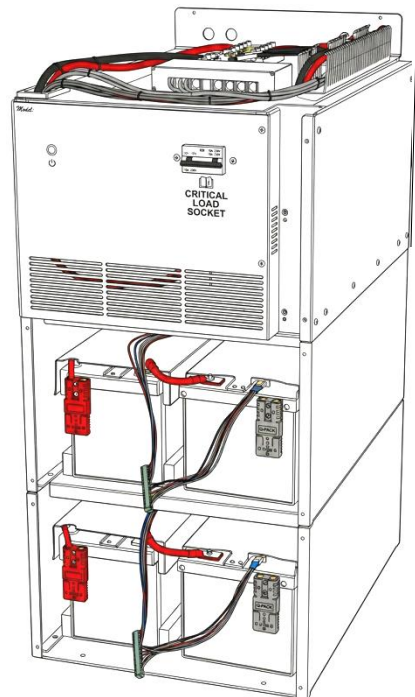
4. Placer deux modules à l'avant : + (rouge) à gauche, - (noir) à droite.



5. **IMPORTANT:** Installer le **connecteur PowerBoard** sur le module avec l'étiquette **jaune**, puis photographier le code-barres à proximité pour le formulaire d'enregistrement.

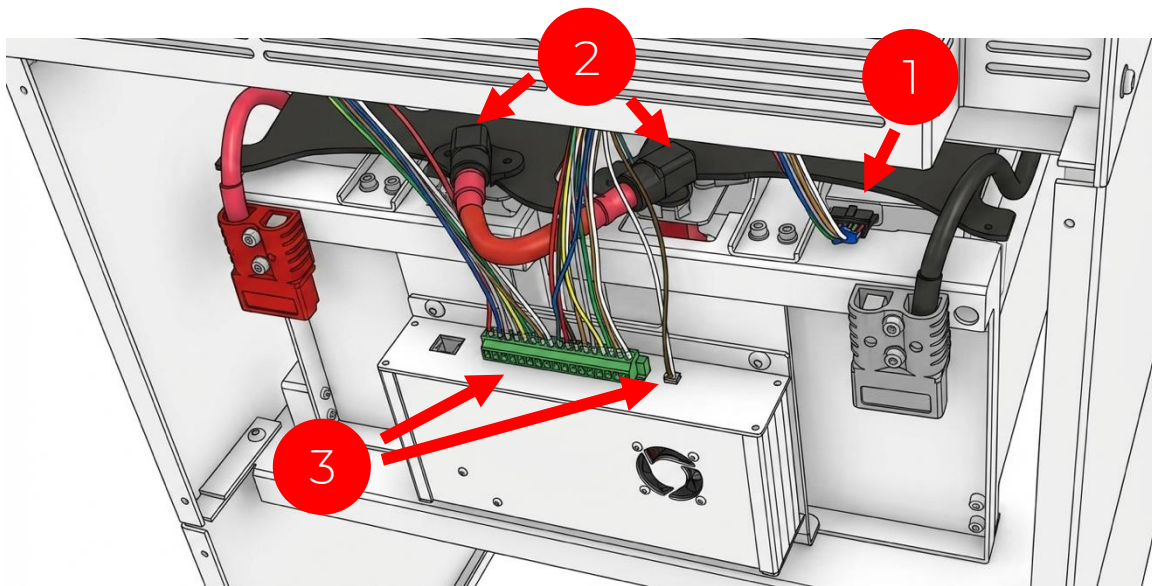


6. Faire glisser les modules dans le boîtier.

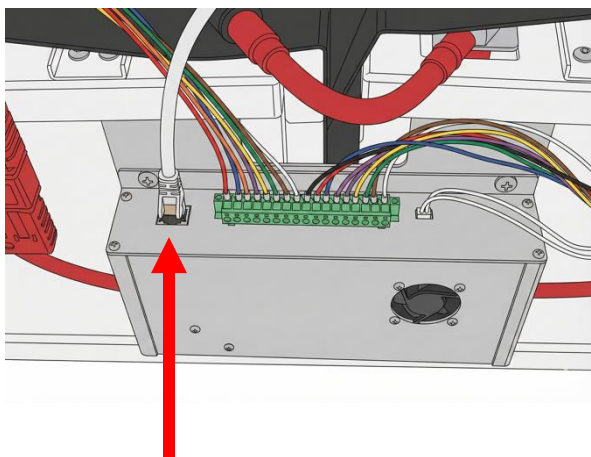


7. Répéter pour les modules restants.

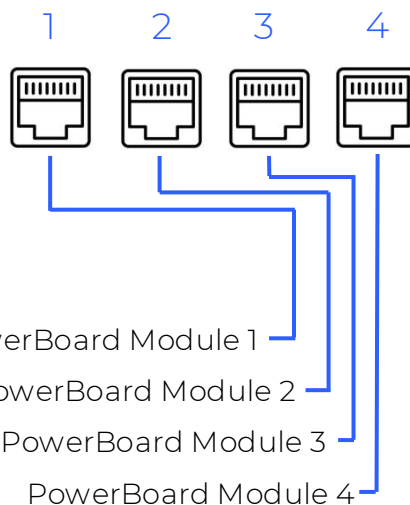
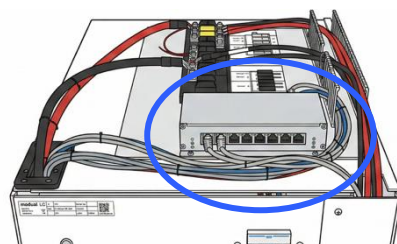
Installation



8. (1) Connecter le câble PowerBoard au module noir. (2) Relier les modules avec le câble rouge. (3) Connecter PowerBoard aux connecteurs vert/blanc.

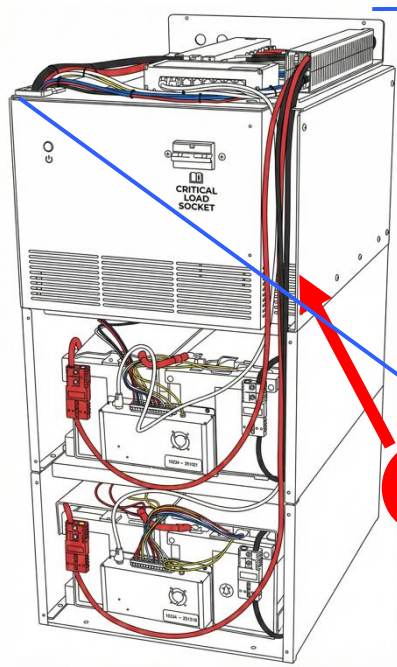


9. Connecter le(s) câble(s) LAN de l'unité de contrôle AC à chaque PowerBoard de module.



Installation

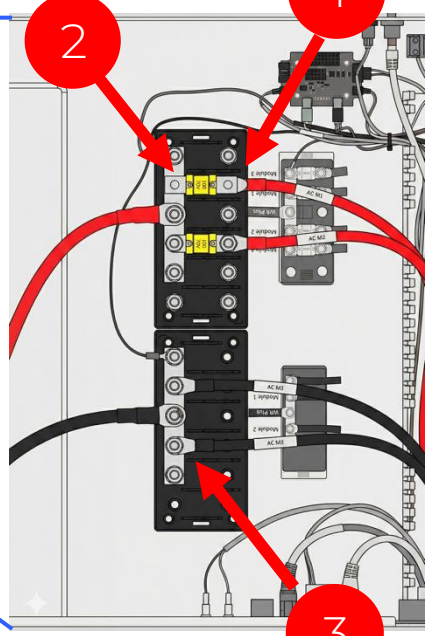
1



2

Si nécessaire: (1) retirer le couvercle **jaune**, puis (2) retirer le panneau de service (2 vis).

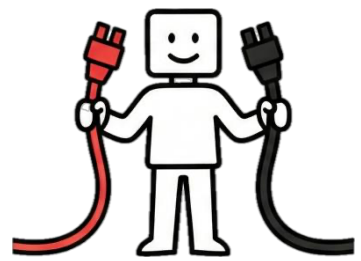
1



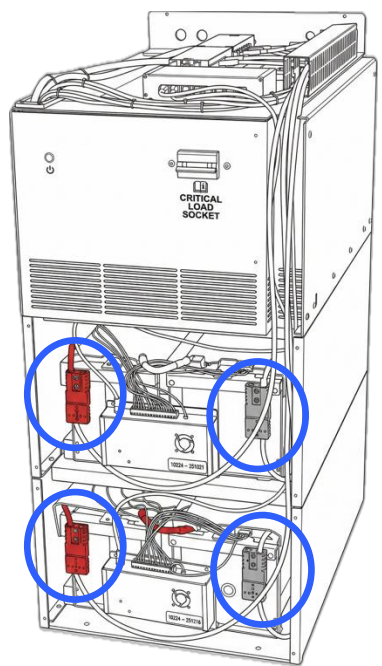
2

3

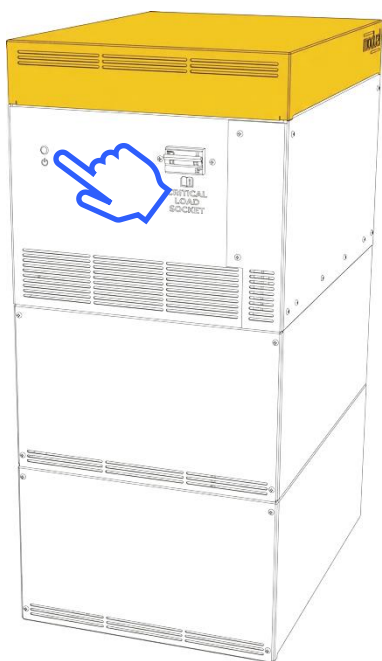
1) Fixer les câbles **rouge** (+). (2) Fixer les disjoncteurs **jaunes**; serrer à 10 Nm. (3) Fixer les câbles **noirs** (-); serrer à 10 Nm.



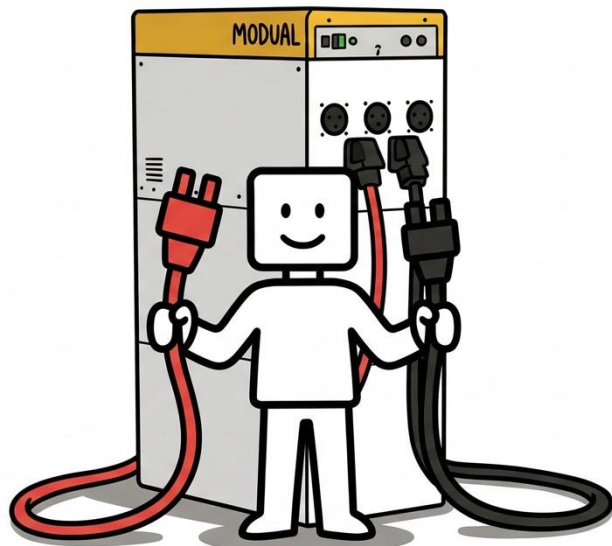
Avant de continuer: fixer les câbles d'alimentation à l'unité AC (voir étape 10).



11. Connecter les câbles d'alimentation **rouge/noir** des modules aux connecteurs **rouge/gris**.



16. Mettre sous tension avec le bouton d'alimentation

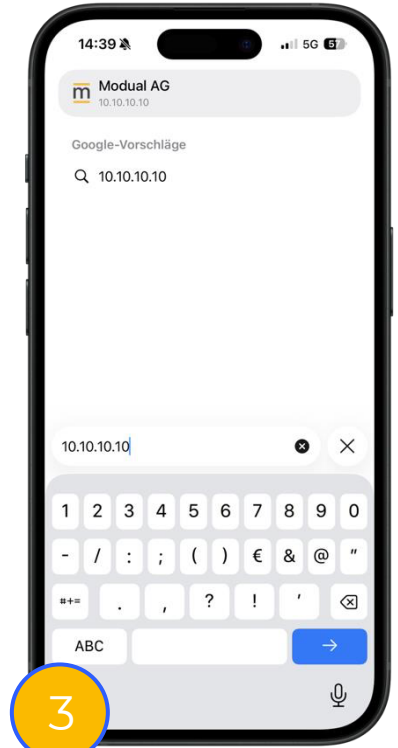


Installation terminée

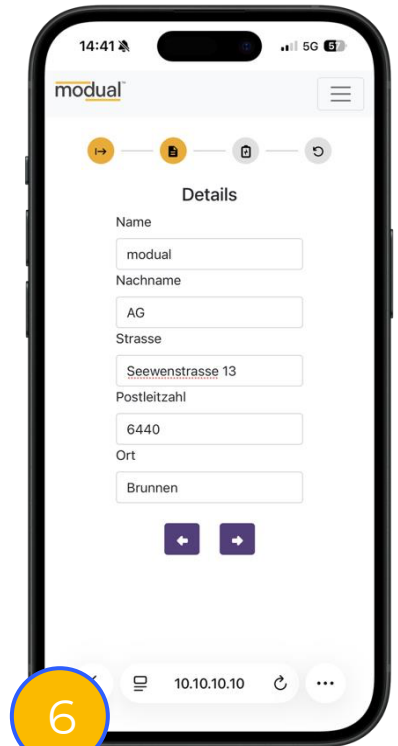
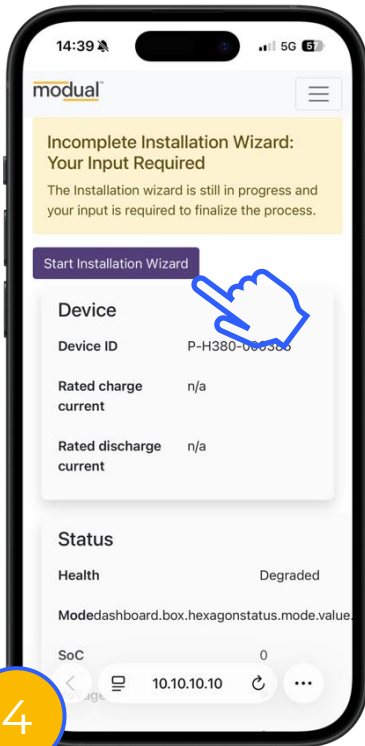
Configuration



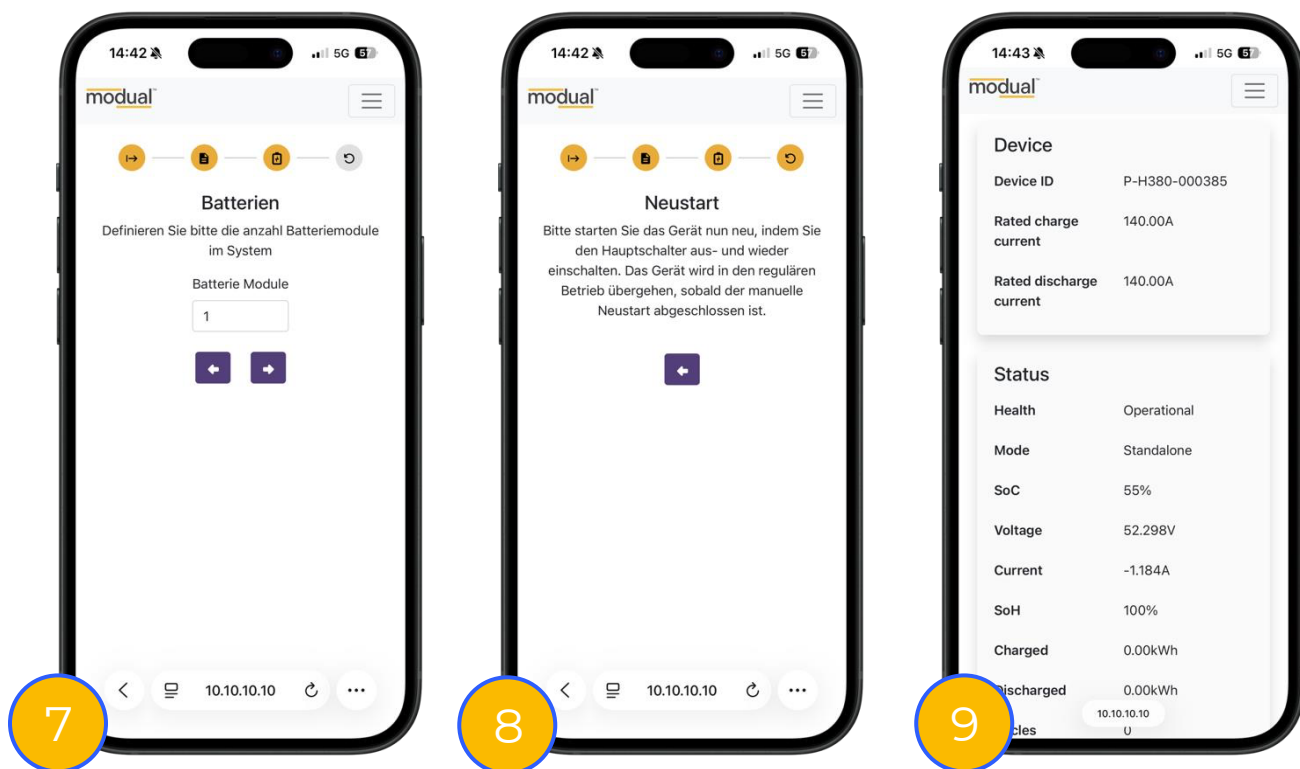
Mot de passe:
battery_storage



Ouvrir Safari/Chrome.
Type: 10.10.10.10



Configuration



Configuration terminée

modual AG

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Support technique
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kundendienst@modual.ch

Formulaire d'enregistrement du batterie

Numéro de série du système de batterie / Date de mise en service

Numéro de série		Date de MES	
-----------------	--	-------------	--

Numéros de série des modules de batterie (code-barres)

Module 1	A B	Module 2	A B
Module 3	A B	Module 4	A B

Informations sur l'exploitant autorisé (propriétaire)

Nom, Prénom	
Adresse	
E-mail	
Téléphone	

Informations sur l'installateur / partenaire responsable

Entreprise	
Nom, Prénom	
Adresse	
E-mail	
Téléphone	

Confirmation

Par sa signature, l'installateur et/ou le partenaire confirme que le système de batterie d'énergie a été raccordé professionnellement, installé conformément aux conditions d'installation et mis en service.

Lieu, Date, Signature	
-----------------------	--

Le formulaire dûment rempli doit être envoyé soit électroniquement (kundendienst@modual.ch) soit par courrier postal à la société Modual AG. L'envoi doit avoir lieu dans les 30 jours suivant la réussite de l'installation.