

SolShare Installation Manual



United States - AE-PN-083-V6.1

This manual is intended for installations in The United States of SolShare model SOLSHARE-2P-100-XXXX.

It is subject to change. Please check our website at <https://allumeenergy.com/document-library> for the most up-to-date manual version.

Version	Date released	Updates
V3.0	23/03/2021	
V6.1	20/04/2022	<ul style="list-style-type: none">- Consolidation of Installation Manual for US- Amendment of Wi-Fi and Internet LED colors

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This manual accompanies our equipment for use by the end users.

The technical instructions and illustrations contained in this manual are to be treated as confidential and no part may be reproduced without the prior written permission of Allume Energy and end users may not divulge the information contained herein or use this manual for purposes other than those strictly connected with correct use of the equipment.

All information and specifications are subject to change without notice.

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Hello

Thank you for purchasing a SolShare. You are supporting the growth of cutting edge Australian made solar technology. Due to the novelty of this product, this installation will likely be different from any other piece of solar technology you have installed in the past. As a result, please follow the guidelines in this manual carefully. Installations that contravene these guidelines are not covered under warranty unless a written exemption from Allume is provided.

Your SolShare is designed to meet all US codes and standards. This guide provides the general instruction of the installation procedure of the SolShare.

If you have questions or feedback on the product or this manual, please contact us and ask for a technical representative.

US



(213) 347-4293



support@allumeenergy.com

List of supplementary documents available online

- SolShare-2P-100-XXXX Datasheet
- SolShare preinstallation checklist
- SolShare Systems & SLD Design Guide
- How to set-up/change Wi-Fi Credentials
- SolShare Labeling Advice
- Commissioning App Guide



Document Library

For most up to date versions of all documents (including this Installation Manual), scan this QR code or go to <https://allumeenergy.com/document-library/>

Commissioning Notes

To be completed during installation and data entered into Commissioning App

Installer name: Company:

Serial Number: 2P_100_

Installation Address:

State: Postal/Zipcode: Country:

Unit Connection Identifier

SolShare Connection	Unit Connected <i>(eg: Apt 1, Unit B, Common light & power, No connection)</i>
	Unit number
1 (L1)
2 (L2)
3 (L1)
4 (L2)
5 (L1)
6 (L2)
7 (L1)
8 (L2)
9 (L1)
10 (L2)

Handling and Safety Instructions

This guide is provided to help the installer understand the standard SolShare installation procedure.

Installations may vary depending on the existing electrical infrastructure and local electrical safety standard. It is the responsibility of the installer to ensure their installation meets all relevant codes and standards.

During installation, testing and inspection, adherence to all the handling and safety instructions is mandatory. **Failure to do so may result in injury or loss of life and damage to the equipment.**

SAFETY SYMBOLS INFORMATION

The following safety symbols are used in this document. Familiarise yourself with the symbols and their meaning before installing or operating the system:

 **Warning:**
xxxxx xxxx xxxx xxx xxxx xx xxxx xxx xxxx

This symbol denotes a critical safety instruction that must be followed to ensure safety of installer and safe operation of the SolShare once commissioned. This box is sometimes denoted in green to provide further emphasis.

 **Warning:**
xxxxx xxxx xxxx xxx xxxx xx xxxx xxx xxxx

 **Important:**
xxxxx xxxx xxxx xxx xxxx xx xxxx xxx xxxx

This symbol indicates an instruction which will ensure proper operation of the SolShare once commissioned or will help with the installation efficiency. This same box is sometimes denoted in green to provide further emphasis.

 **Important:**
xxxxx xxxx xxxx xxx xxxx xx xxxx xxx xxxx

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS. This manual contains important instructions for the SolShare 2P-100 that shall be followed during installation and maintenance of the power division control system.

WARNING: Opening of the SolShare must only be performed by a qualified individual.

WARNING: This equipment is connected to multiple sources of supply. Isolate all supplies before working on this equipment. Each input circuit and each output circuit represent a source of supply.

WARNING: The specified shutdown procedure must be followed prior to working on this equipment.

WARNING: This equipment must be permanently grounded.

CAUTION: HEAVY OBJECT – This product has a weight of approximately 84 lbs. Un-boxing and mounting the product requires 2 people.

CAUTION: Ground-fault Circuit Interrupter (GFCI) Breakers must not be used as Overcurrent Protection devices in Solshare Output circuits.

CAUTION: The SolShare will impose a current dependent voltage drop/rise which should be taken into account during design of the installation. Specifications are given in the Technical Data sheet.

CAUTION: The unit must be operated according to the technical specification datasheet.

CAUTION: Installations may vary depending on the existing electrical infrastructure and local electrical codes and standards. It is the responsibility of the installer to ensure their installation meets the local electrical safety standard.

NOTE: Use only copper conductors rated for a minimum of 90 degrees Celsius, 194 Fahrenheit.

NOTE: This product relies on passive cooling, install in a well-ventilated location in accordance with the mounting instructions.

NOTE: The symbol  appears at grounding points within the SolShare equipment. This symbol is also used in the manual.



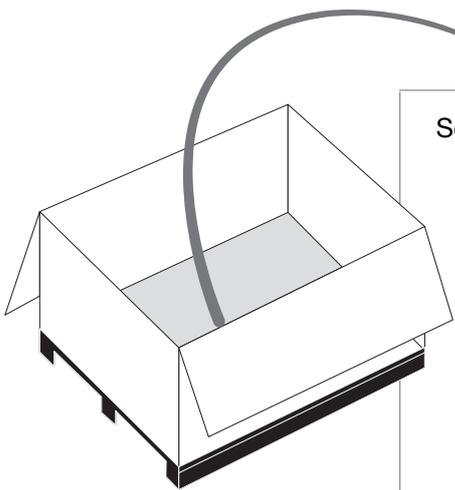
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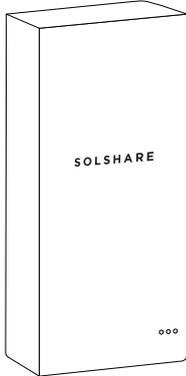
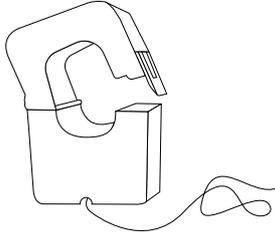
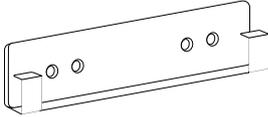
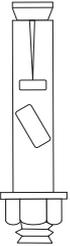
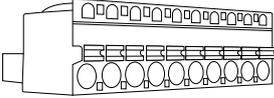
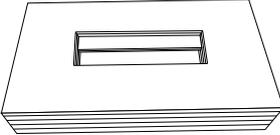
- Make sure to read over, fully understand and strictly follow the detailed instructions of this installation manual and other related regulations before installing the equipment.
- Any violation could result in personal death or injury, or damage to the device.
- Installation is only to be conducted by a qualified person.
- This guide is provided to help the installer understand the standard SolShare installation procedure. Installations may vary depending on the existing electrical infrastructure and local electrical codes and standards. It is the responsibility of the installer to ensure their installation meets the local electrical safety standard.
- This product has a weight of approximately 84 lbs. Un-boxing and mounting the product requires 2 people.

I/ What's in the box

Check for Transport Damage

Make sure the SolShare is intact following transportation. If there are any signs of visible damage, please contact your dealer immediately. Carefully check that all of the components have been supplied. If anything is missing, contact your dealer.



	<p>SolShare unit</p>  <p>x 1</p>	<p>Split-core current transformer with approx. 32' tails</p>  <p>Approx. 32'</p> <p>x 10 pairs</p>	<p>Mounting bracket</p>  <p>x 2</p>
<p>Fastener</p>  <p>x 4</p>	<p>Locking plate</p>  <p>x 1</p>	<p>CT Connector block</p>  <p>x 4</p>	<p>CT connection aid</p>  <p>x 1</p>

Installation

The SolShare-2P distributes solar energy by rotating a connected split-phase grid-connected inverter's full output via each set of the SolShare's outputs (L1 and L2, L3 and L4, etc). This means that a connected participating dwelling unit can get the full solar system's generation for a period of time.

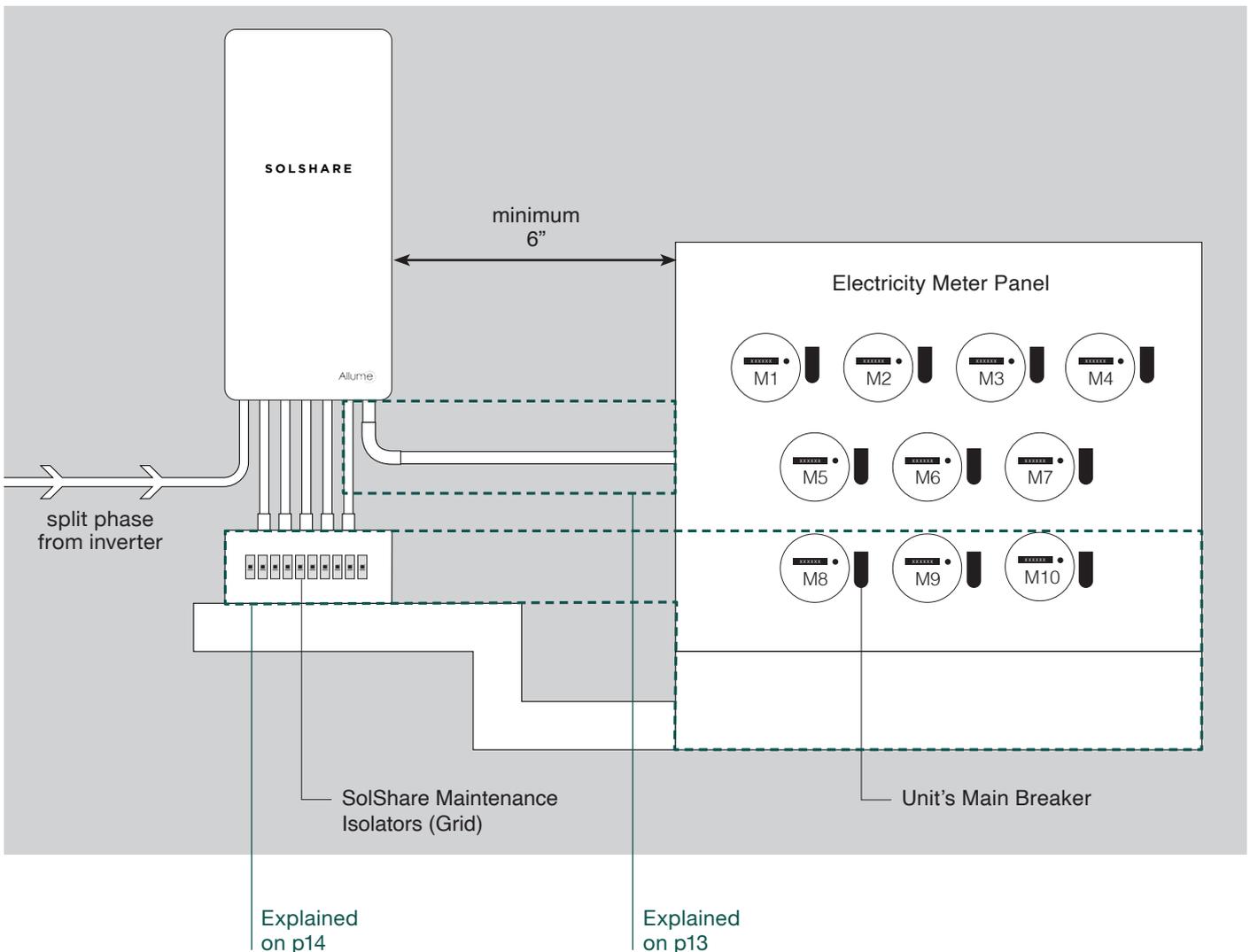
A set of SolShare outputs (240v) can be connected to a dwelling unit, or the set can be divided to be split between two units, provided only one line is connected (120V) to each dwelling unit's matching electrical line 1 or line 2. The SolShare's output is connected to the load side of a participating dwelling unit's meter usually by electrical tap. An Over Current Protection Device (OCPD) and isolating switch is required on each SolShare output. This can be accomplished by a fused disconnect or breaker. A typical installation configuration is displayed below.

Allocation

The SolShare will rotate the supply periodically, approximately every 60 seconds, whilst ensuring each unit receives the same amount of solar energy each month.

For example, if a 16.4kW AC solar system is installed, with 10 units connected, then each unit will receive solar energy allocation equivalent to a dedicated 1.6kW solar system. If a unit has received more solar energy than their total energy consumption for the month, the SolShare will suspend solar energy supply to that unit, preferencing other connected units until their total demand again exceeds their solar delivery. This is intended to remove any financial wastage of the solar energy.

If a non-even allocation of solar to each unit is required, then the SolShare's sharing algorithm can be configured to incorporate this. Please contact Allume energy at support@allumeenergy.com to arrange this.



Warning:

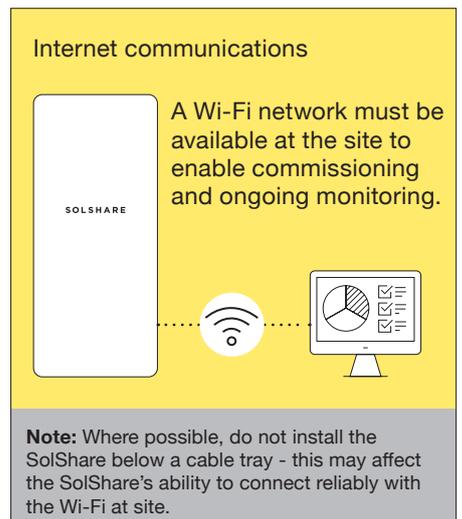
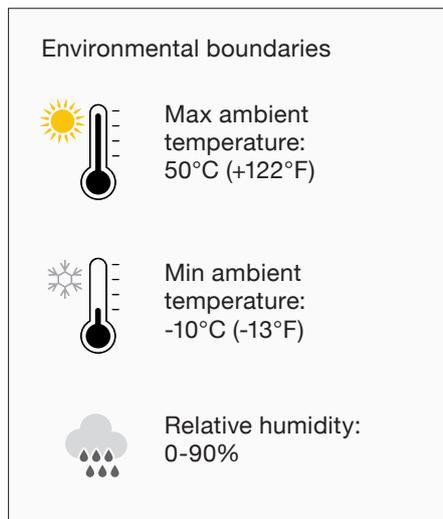
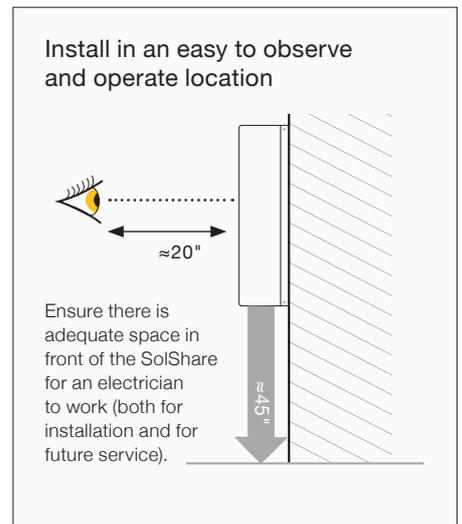
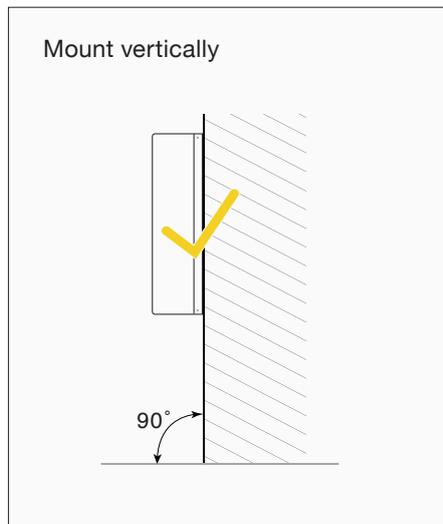
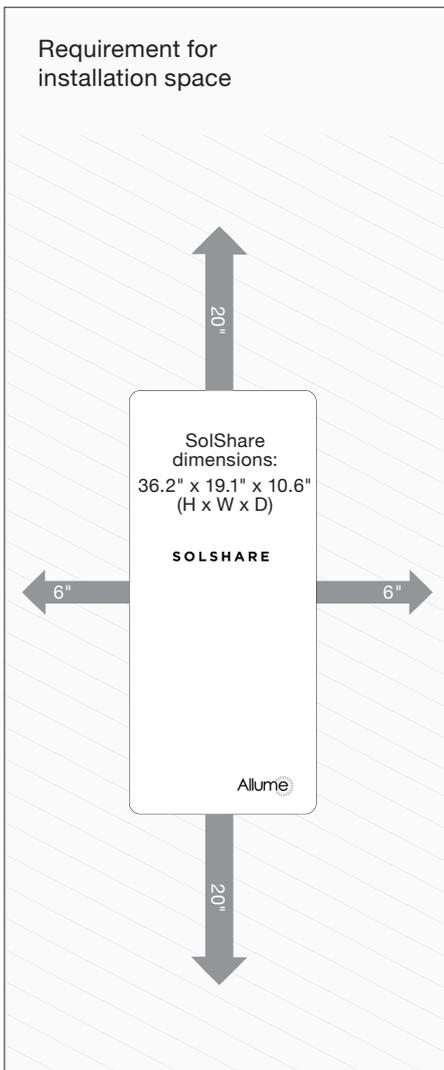
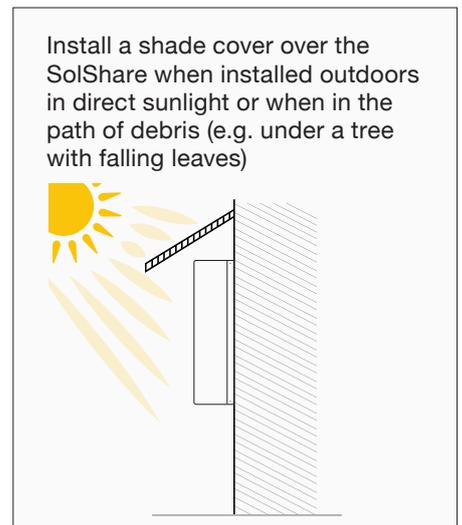
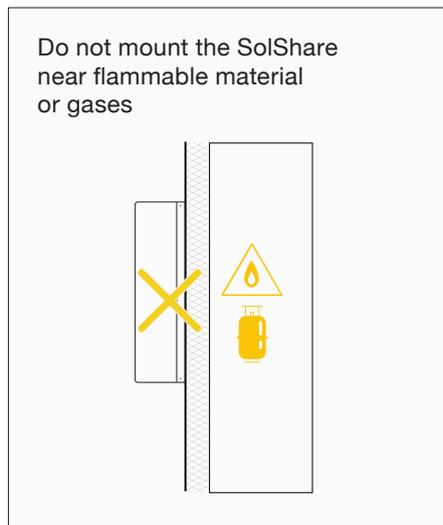
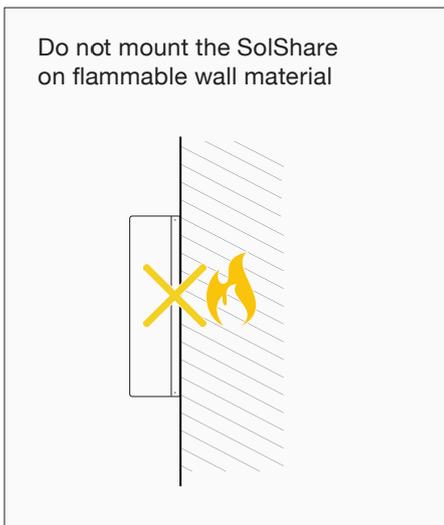
The neutral for the SolShare must be wired directly to the main neutral bar inside the main switchboard, i.e. at the Grounding Electrode Conductor (GEC) at the building's main switchboard. The neutral must not be connected to an individual tenancy's neutral.

II/ Mounting the SolShare

A. Installation site selection

To minimise cabling required, the SolShare should be mounted as close to the site's meter bank as possible.

To allow for easy installation and maintenance, ensure that there is adequate space surrounding the SolShare and that it is mounted at a convenient height. Please ensure the following mounting requirements are also met when selecting the location of the SolShare.



B. Installation

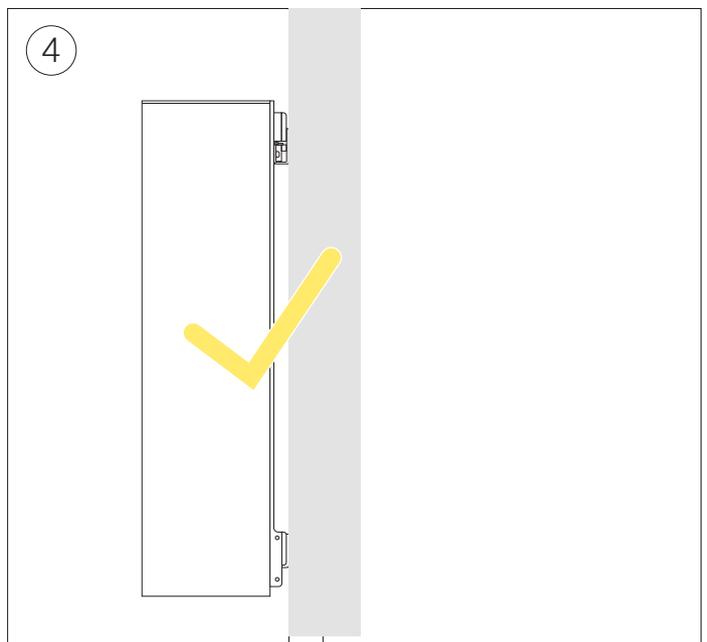
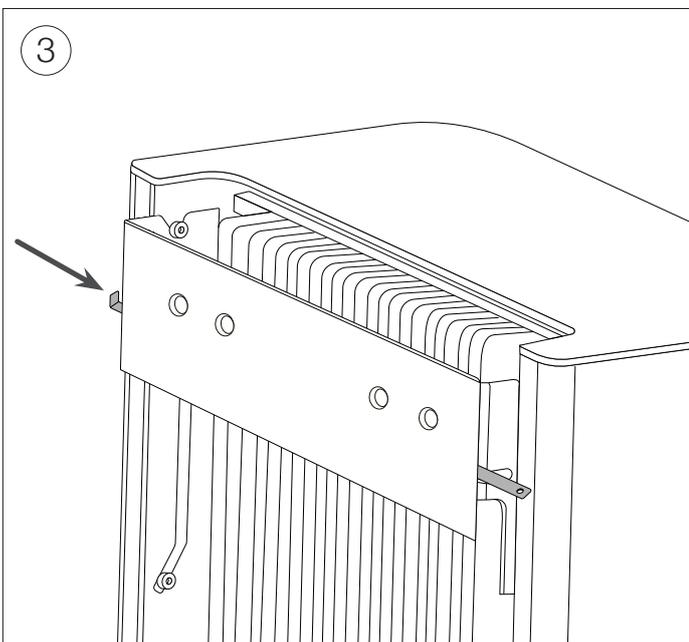
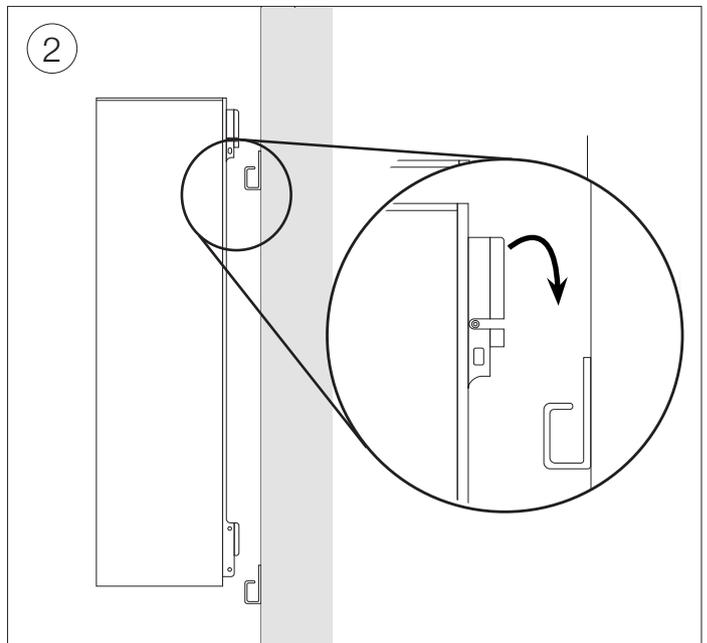
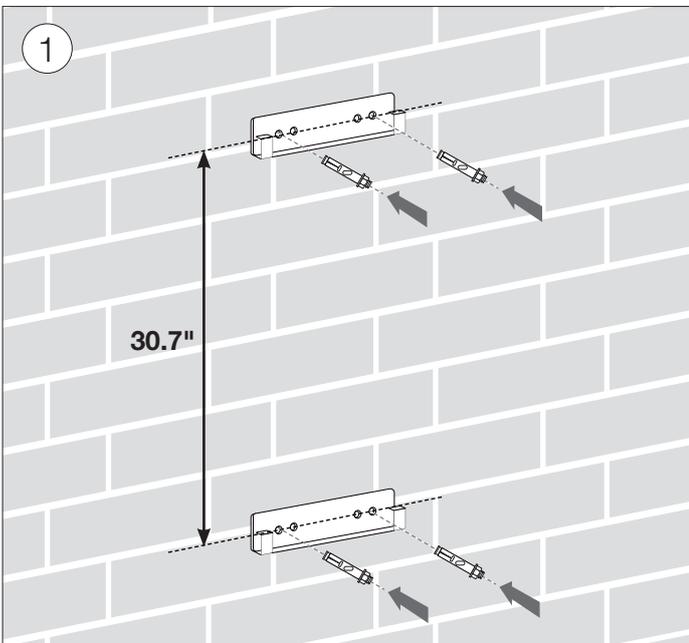
Follow the steps below to mount the brackets and enclosure:

1. Firmly secure the mounting brackets to the chosen wall for installation. Allume Energy recommend using the provided fasteners to attach the brackets into a suitable stone or masonry wall. If another wall material has been chosen for installation, please use suitable fasteners with at least 66 lbs shear force per fastener.
2. Lift the SolShare onto the mounting brackets as directed in the diagram. Check both top and bottom brackets are secure.
3. Insert the locking bolt through the SolShare top mounting bracket as shown and secure at both ends.
4. Ensure the SolShare is securely fastened to the wall and locked into place.



Important:

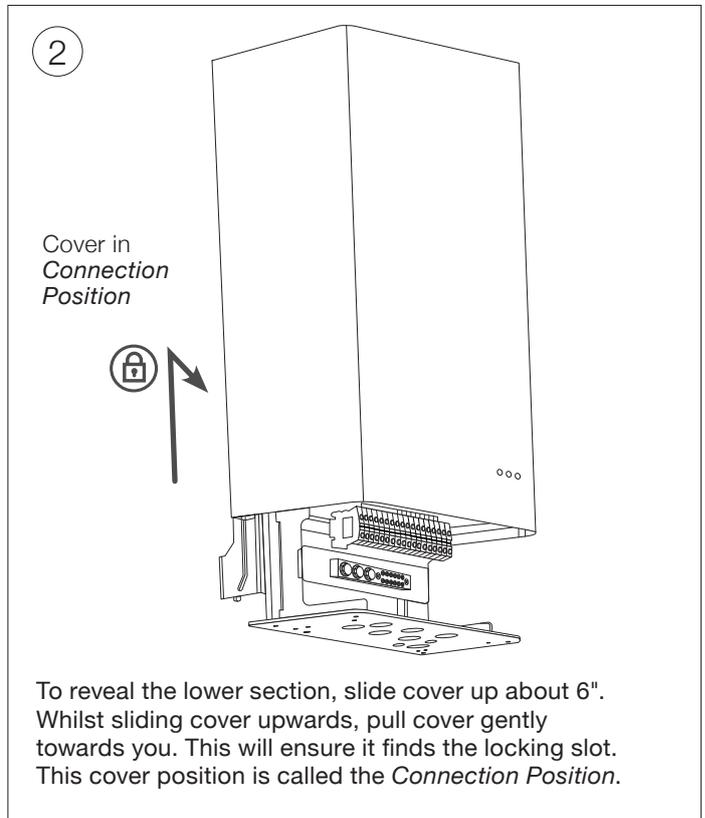
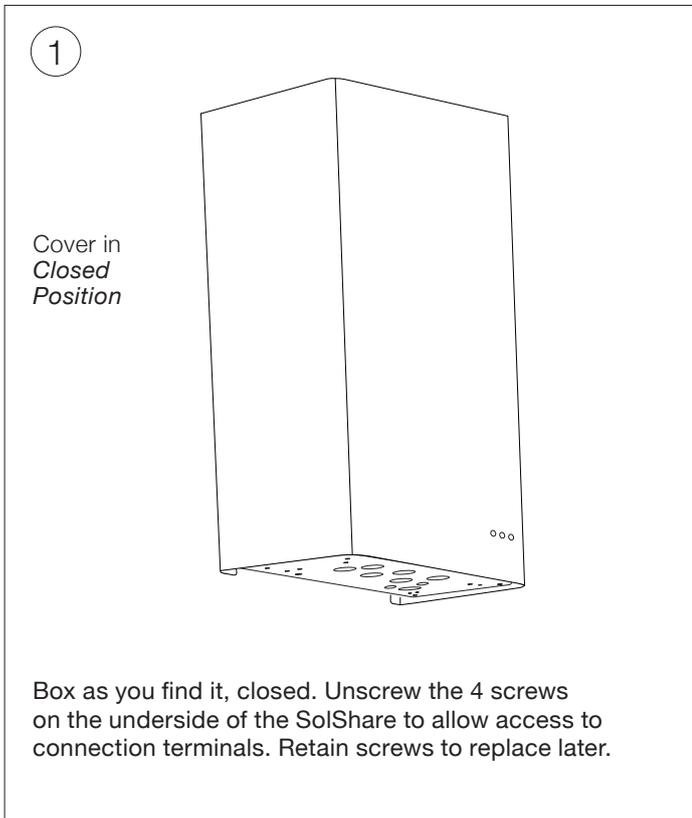
- The mounting wall and fastener selection is at the discretion of the installer. Allume Energy take no responsibility in the appropriate site selection for the SolShare or the appropriate bracket fastener choice.
- Weight rating fasteners should be rated to at least 30kg of shear force per fastener.



III/ Electrical connection

A. Input / Output Connections

1. Lift up cover into the *Connection Position* to reveal the lower section of the box, where the electrical connections are made.



Important:

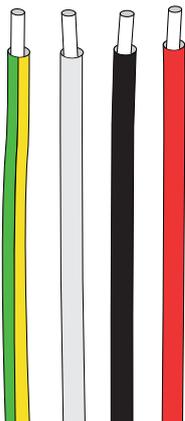
The cover should lock into place when it's pulled up properly. Before beginning wiring, ensure cover is locked in place by pulling down firmly.

To bring cover back to initial position, lift cover upwards and away from you, then allow to slide down back into place.



Caution:

Risk of crush hazard if cover dislodged while in service position.



The AC cables

Please choose appropriately gauged cables as per solar system size. Using different color cables for L1 and L2 is recommended. All input and output cables should be rated to total generation capacity of inverter.

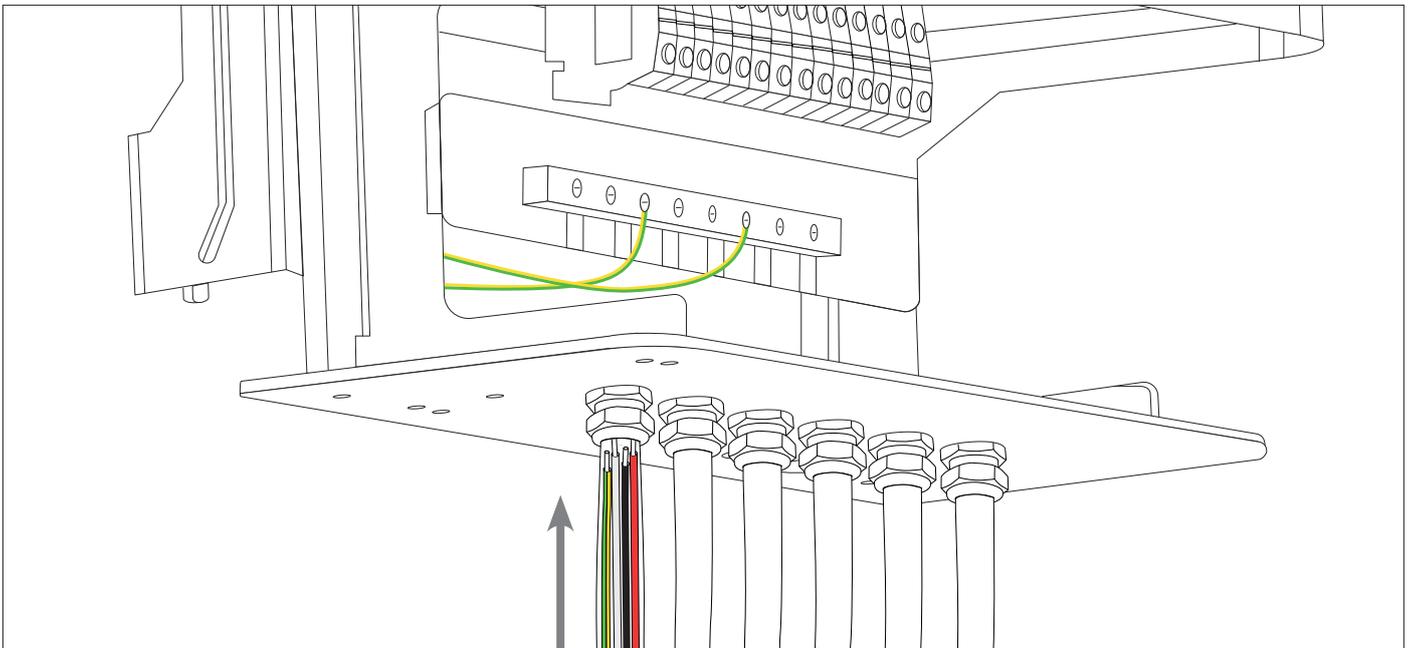
Area of input / output:

The cables should be inserted through the appropriate glands, as per the 'SolShare underside view' diagram above.



Warning:

The SolShare may divert all solar energy to any one unit in a point in time. As a result, all input / output cables should be sized for maximum solar energy output.



Warning:



- No wiring loops of excess conductor length are allowed to be made. Field wiring of all circuits must maintain 1/4" separation from all other circuits
- All electrical connections including sensor circuits, made between the Allume Energy SolShare 100 and an electrical distribution panel shall be run through conduit or another type of NEC compliant raceway

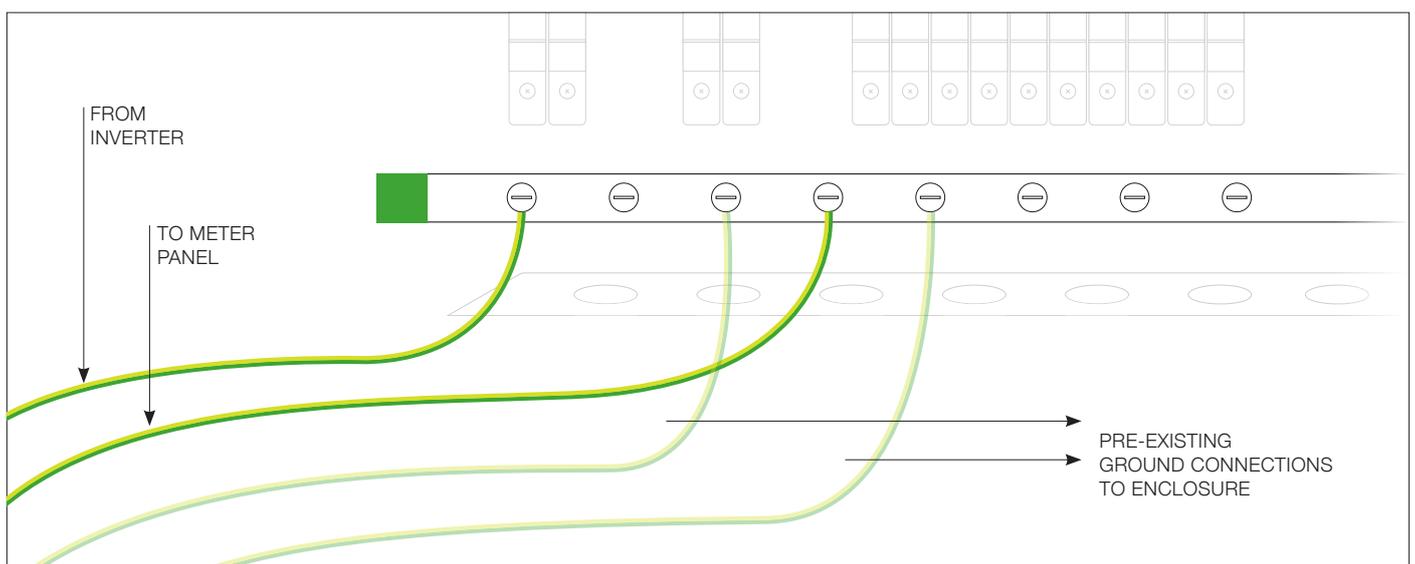
Gland & Conduit Installation

1. For conduit hubs, use only UL Listed raintight, or wet location hubs for entry into the enclosure (see appendix note to be retained).
2. Replace plugs with input gland and required number of output glands.
 - The number of output glands required will depend on the number of units connected to the SolShare.
 - One gland for every 2 units is recommended. However, fewer glands may be used if cable gauge permits.
3. Run input conduit from inverter to SolShare input (via PV AC Disconnect)
4. Run output conduits from out glands to Unit PV Breakers (Inverter Supply)

Important:



The Unit PV Breakers (Inverter Supply) can be mounted on the meter panel or in a separate enclosure adjacent to meter panel (as pictured on page 7)



Ground Connection Tightening Torque - IN-LBS (N.m)

Conductor size	Attachment method / Bare wire / Terminal / Lug / Ferrule
14 AWG - 10 AWG	35 [4.0]
8 AWG	40 [4.5]
6 AWG - 4 AWG	50 [5.6]

Ground Connection

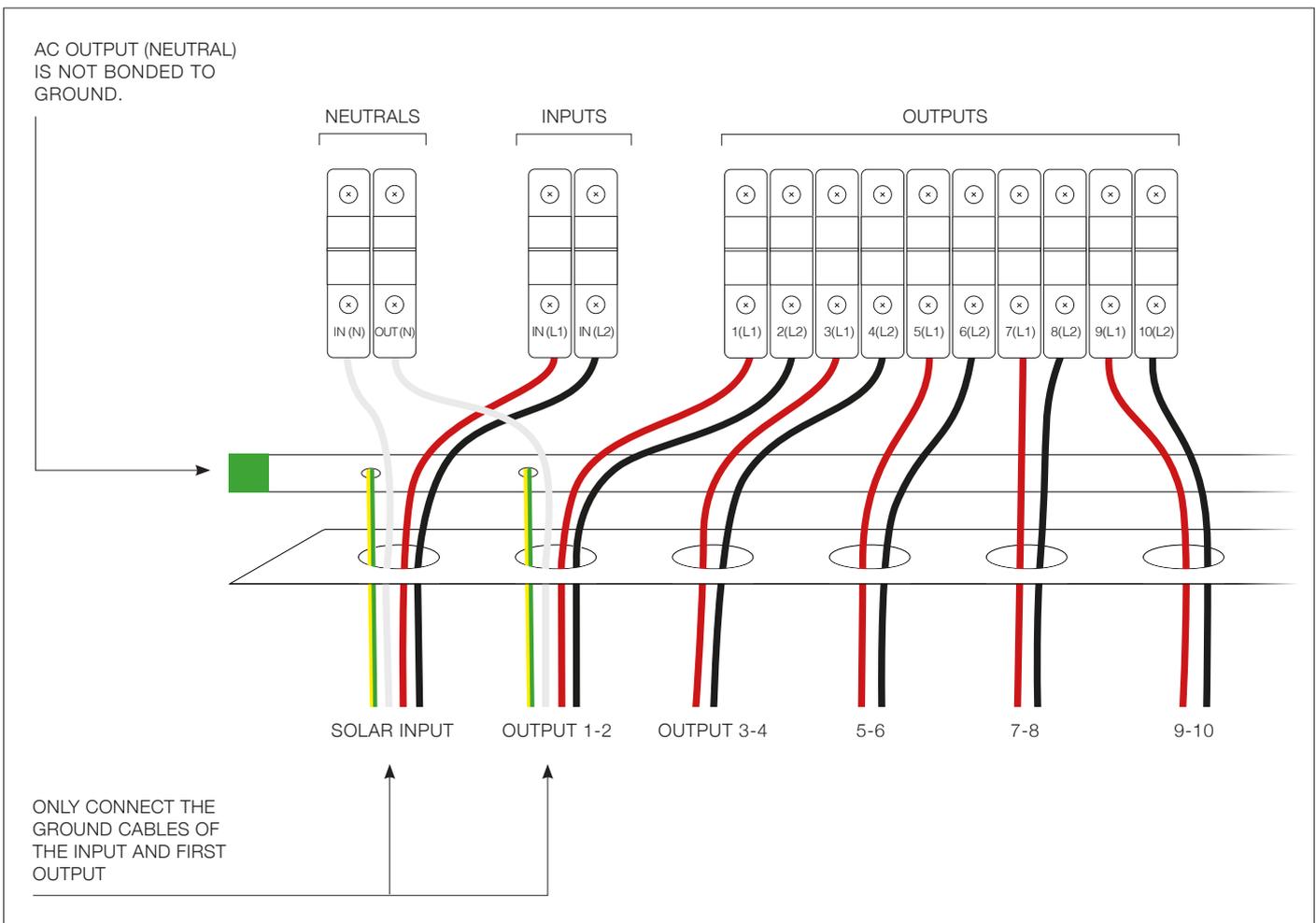
Please refer to Appendix B for Conductor Specification options.

1. Run input ground from inverter and connect to the SolShare's ground bar (as shown above)
2. Run output ground cable from ground point in meter panel and connect to the SolShare's ground bar (as shown above).



Warning:

Only one ground output should be wired from SolShare to meter panel.



Terminal block - Neutral & Phase connections

Conductors	from 12 AWG 90C (4mm ²) to 4 AWG (25mm ²)
Stripping length	0.5"
Tightening torque	30 lb-in (3.4Nm)

Neutral Connection

Please refer to Appendix C for Terminal Block Connection options.

1. Run input neutral from inverter and connect to the SolShare's neutral input connector (as shown above)
2. Run output neutral cable from neutral point in meter panel and connect to the SolShare's neutral output connector (as shown above).



Warning:

Only one neutral output should be wired from SolShare to meter panel.



Warning:

Neutral bonding to protective ground must take place only at the main distribution panel.



Warning:

All output cable gauges must be same as input cable gauge.

Output Power Connection

1. Complete column 2 of the Commissioning Document on page 5, allocating each SolShare output to a unit/apmt number.
2. Cut output power cables to appropriate length to reach from SolShare output to Unit PV Breakers (Inverter Supply). Label both ends of these cables with the unit/apmt number.
3. Run cables between SolShare and Unit PV Breakers (Inverter Supply). Terminate cables to appropriate SolShare output connectors as per the configuration in step 1.



Important:

The *Unit PV Breakers (Inverter Supply)* can be mounted on the meter panel or in a separate enclosure adjacent to meter panel (as pictured on page 8).



Warning:

No wiring loops of excess conductor length are allowed to be made. Field wiring of all circuits must maintain 1/4" separation from all other circuits.

Input Connection

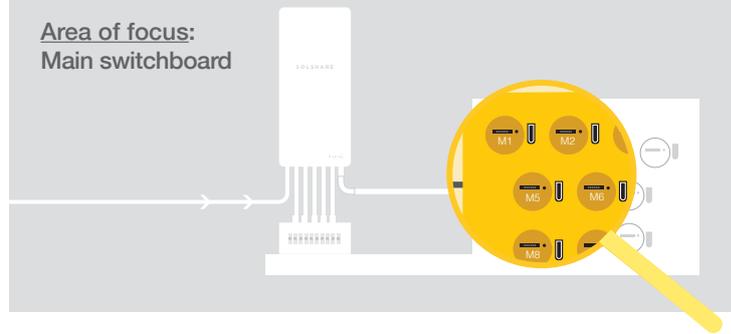
All wiring is conducted on the AC side of the inverter. The SolShare requires a single-phase, grid-connected inverter to be used in the PV installation. The solar input conductors must come from the inverter(s) while passing through a system disconnect.

To wire the input conductors in to the SolShare, the following steps should be taken:

1. Measure out the conductors and conduit, and cut to appropriate length.
2. If outdoors, select appropriate conductors/conduit gland and use these to replace membrane glands. Insert conduit and conductors into SolShare via this conductor/conduit glands.
4. Cut and connect earth ground and neutral from input to their respective connection points. Use two of the ground screws provided with the SolShare to secure the input ground connection to the Grounding Electrode Conductors (GEC).
5. Cut and connect phase conductors as per the diagram above.

B. Output Connection to Main Switchboard

Area of focus:
Main switchboard



A PV Breaker (Inverter Supply) must be installed between the SolShare output and Main Breaker for each participating unit.

For single-phase meters this should be a single pole main circuit breaker (MCB), for three-phase customers this should be a three pole MCB.

Allume recommends these PV breakers be installed in a location that is easily accessible from the main switchboard. Ensure these breakers are labeled clearly.

The outputs from the solar must be wired to the PV Breakers. The outputs of the PV Breakers must be interconnected on the load side of the unit's Main Breaker.

Ensure each output is labelled as per the figure below. This will help later on in the installation when wiring the current transformers to each unit.



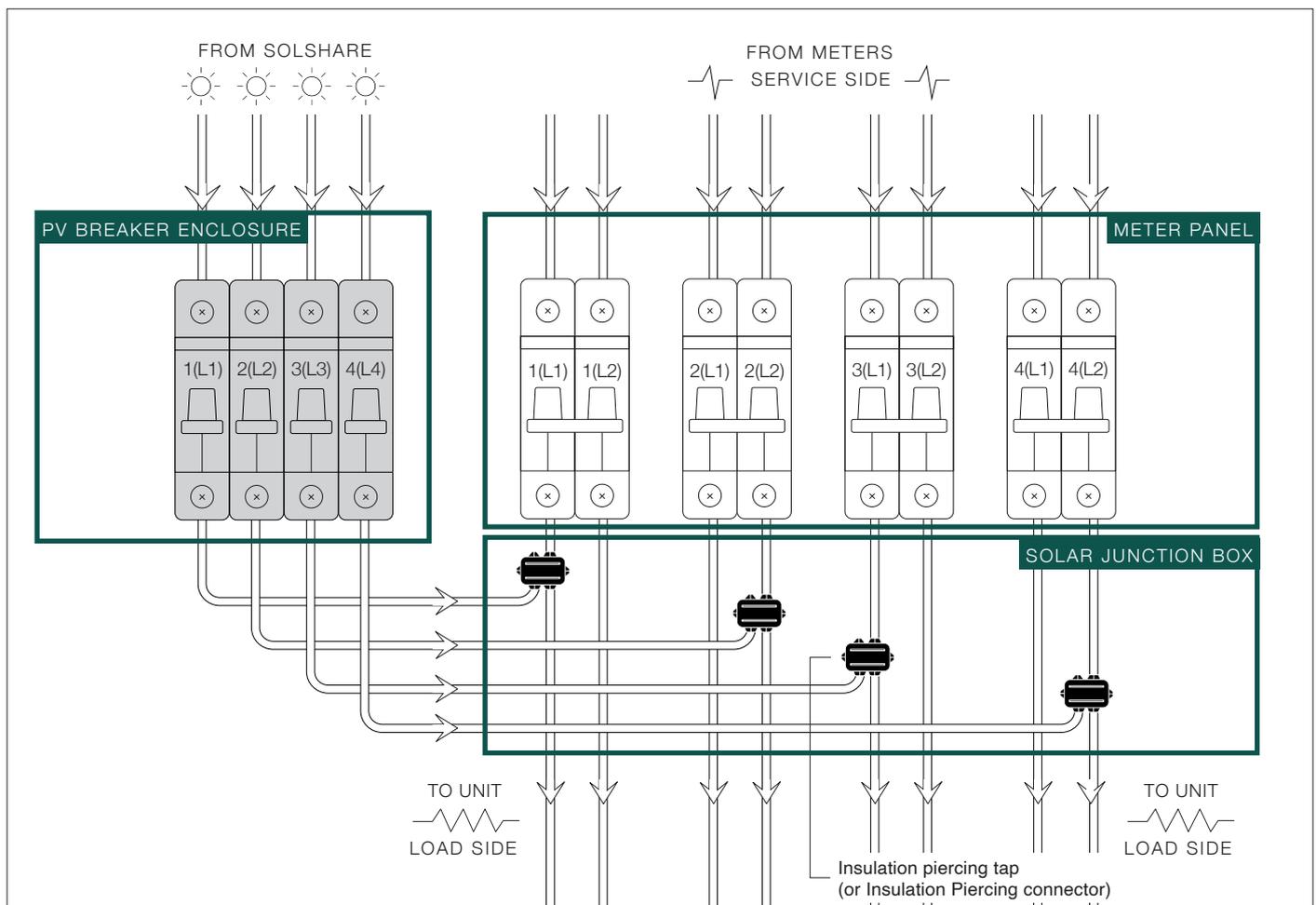
Important:

If connecting only one line of solar to each unit, make sure the solar supplier line alternates between each unit as shown below.



Warning:

OCPD (Over Current Protective Devices) provided between the AC line and an inverter operating in parallel with the grid are required to be rated for bi-directional use.



Important:

Make sure to label both ends of each solar cable.



Warning:

- Ensure the phase of the solar supply correctly matches the phase of the unit's supply from the grid.
- Additional circuit breakers must be sized to perform overload protection for SolShare output cables.
- The solar system max output must be less than the main circuit breaker rating of every connected unit.
- The neutral for the SolShare must be wired directly to the main neutral bar inside the main switchboard. The neutral must not be connected to an individual tenancy's neutral.
- Point of connection of solar should be on the supply side of tenancy main switch unless specified otherwise by your Project SLD.



Important:

It is recommended to label both ends of each cable with the appropriate tenancy name and SolShare output name to ensure the correct cable is wired into the correct in the main switchboard.



Important:

For maintenance and troubleshooting purposes, it is recommended to write the dwellings unit's names corresponding to each output on the bottom plate of the SolShare (with permanent marker).



Important:

Check the order of the SolShare outputs carefully. The SolShare terminal block is configured to wire in the order L1-1, L2-1, L1-2, L2-2, L1-3, ... etc. Ensure the connections are connected in this order. Ensure the switches are labeled clearly and logically.



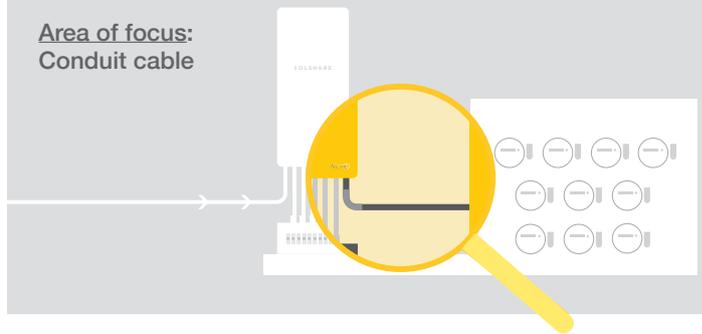
Warning:

Only **one** neutral shall be wired out of the SolShare, as shown in the diagram on page 13. Output neutral and ground must be wired to main neutral bar and main earth bar respectively, located in the main switchboard.

C. Running current transformer tails

1. Run CT conduit from Solshare to main switchboard (the CT conduit gland is the pre-installed CT conduit gland on the underside of the SolShare - see the underside view diagram on p. 13 to ascertain where the CT conduit gland is).
2. Look for labels on current transformers and current transformer tails. Ensure these match the corresponding tenancy.
3. Run tails of CTs from main switchboard to SolShare through conduit.

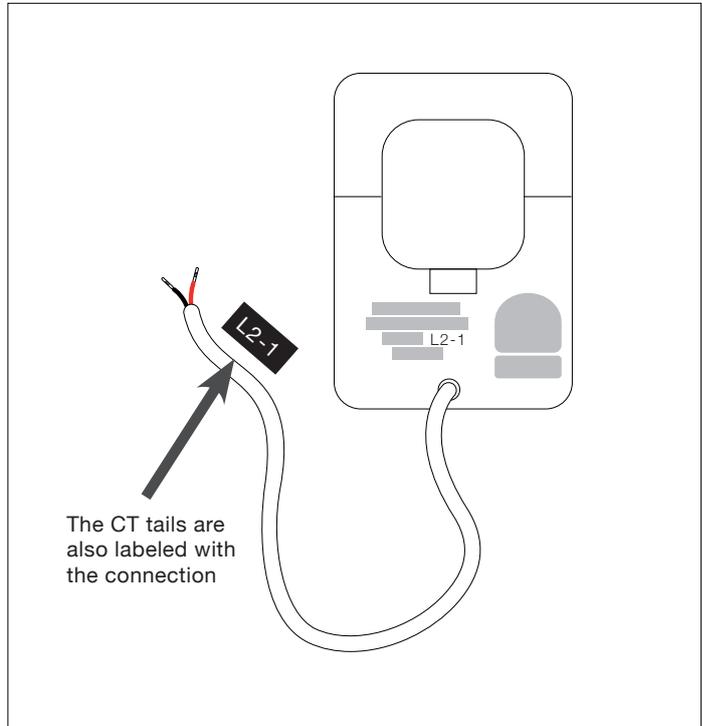
Area of focus:
Conduit cable



Important:

If you are extending CT tails, this can be done for each CT separately up to the limits described in the advisory on the CT box. The following parts are recommended:

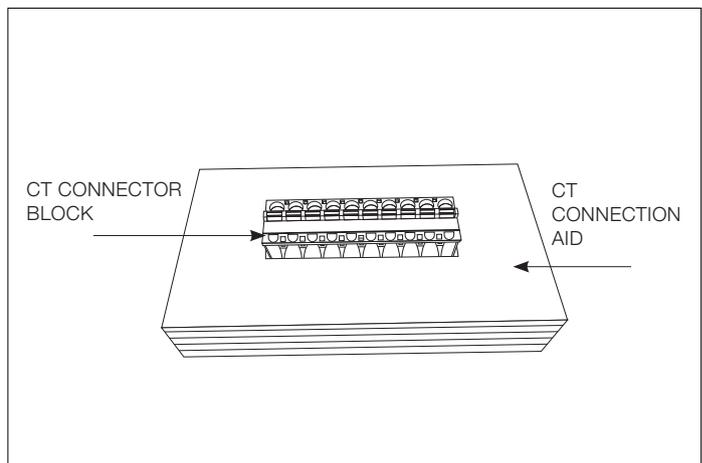
- Butt splice connector (appropriate size for cable)
- Shielded, twisted pair cable, minimum 24 AWG size, rated for at least 400V or separately sheathed and compliant with any other relevant local codes and standards (to the length required for the run between SolShare and main switchboard)



Current transformers to SolShare connections

Wiring tails to Solshare:

1. Connect the CT cabling to the CT connector block, as per the diagram to the right. To do this:
 - Push the orange tab in and hold.
 - Feed the CT cable into the hole.
 - Once inserted, release the orange tab.
 - Confirm cable is secure by giving it a gentle tug.
2. Repeat for all CT cables of the L1 phase.
3. Repeat steps 1 & 2 for L2 and L3 phase connector blocks.
4. Plug each CT connector block into the corresponding socket of the SolShare.



Important:

Make sure colors and orientation of connectors are identical to the image above. To ensure you are positioning them correctly, check that the orange tabs are above your plugged in cables, and labels read as above.



Important:

The SolShare has come with a CT connection aid. Place the CT connector into the connection aid to help with the termination of the CT tails.

Current transformer clipping

Clipping the current transformers onto the service side cable:

1. Match the labelled CTs with their corresponding labelled service supply cable.
2. Confirm correct polarity of the CT by ensuring the arrow on the CT head matches the current flow direction on the service supply cable.
3. Clip CT over service supply cable.



Important:

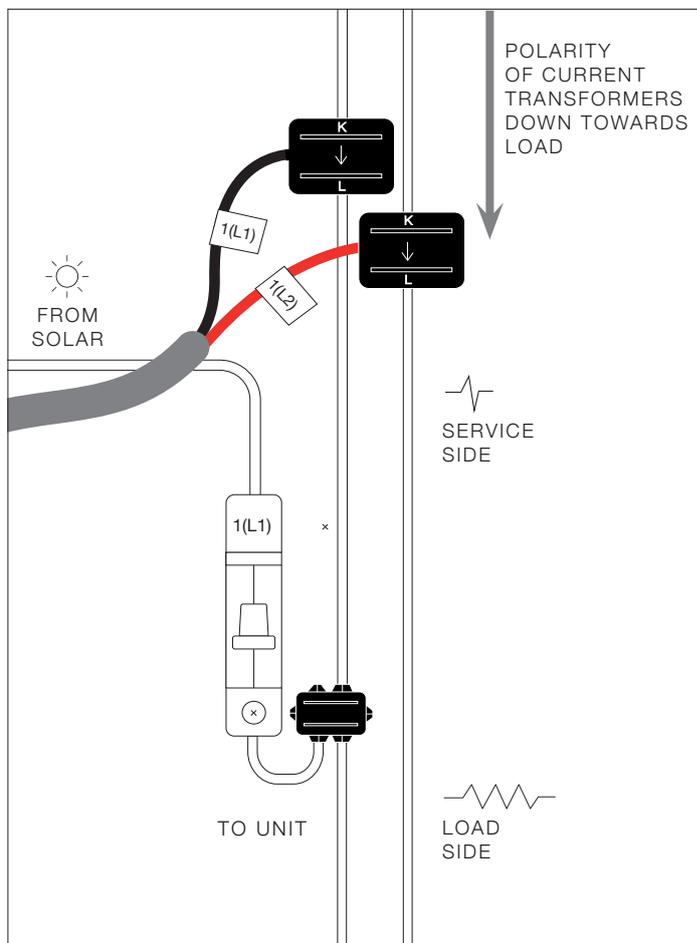
Make sure that each CT is clipped to the corresponding unit.



Important:

The CT must be connected on the service side of the point of connection of solar supply, as per diagram.

* The point of connection of the solar may appear different in your case depending on the Project SLD. In any case, the CT must be on the line side of the point of connection of the solar supply.



IV/ Commissioning

A. Preparing the SolShare



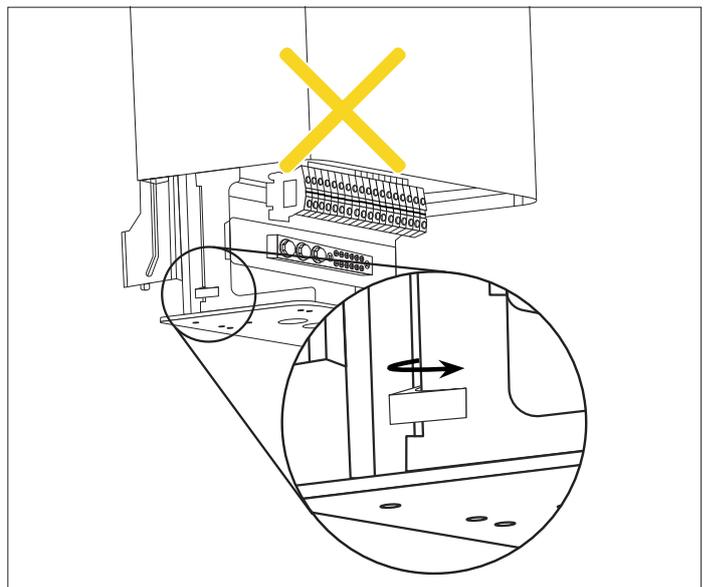
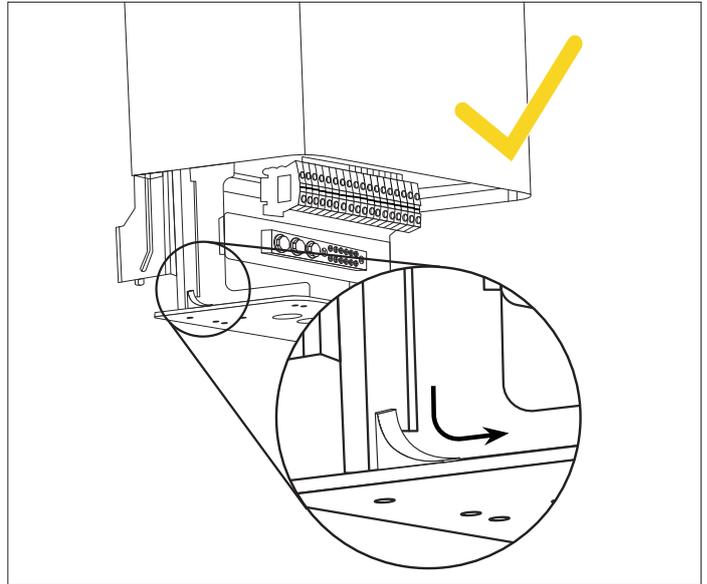
Important:

- Before commissioning, re-check all CTs and output cables are connected as per their labels.
- Record connection information on commissioning notes page, you will need to enter this while commissioning the unit after the cover is closed.



Warning:

When closing the cover of the SolShare, ensure the seals are oriented correctly. This will ensure an appropriate seal for the IP56 rating of the SolShare. See the graphics to the right showing correct orientation of the seals.

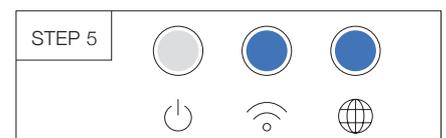
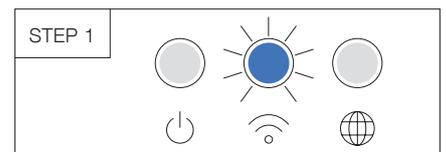


To power on the SolShare:

1. Pull down cover of SolShare into the *Closed Position*, ensuring the seals are oriented correctly. Fasten shut by replacing the 4 screws on the underside of the SolShare, that were removed in section III/A.1.
Maximum torque for cover fasteners is 1.5Nm
2. Turn on System Disconnect (located between inverter(s) and SolShare).
3. Ensure dwelling unit main breakers are switched on.
4. Turn on Inverter(s)

To connect the SolShare to Wi-Fi:

1. Push the button on the underside of the SolShare for 5 seconds. This will put the SolShare into *Wi-Fi access point mode*. You will see the *Wi-Fi LED* turn blue and flash.
2. Using a laptop or phone (your device), connect your device to the SolShare's Wi-Fi network (this will appear as SolShare: 2P_100_XXXX where XXXX is the last 4 digits of the SolShare serial number). You will have 30 minutes to complete the Wi-Fi connection process. Note that the SolShare will reconnect to its most recent Wi-Fi settings (where applicable) if a device is not connected within 5 minutes of putting the SolShare into *Wi-Fi access point mode*.
3. Open an internet browser on your device and navigate to **192.168.4.1**.
4. Once the page loads in the browser, enter the SSID (Wi-Fi network name) and password of the Wi-Fi network that you want the SolShare to connect to.
5. The SolShare will attempt to connect to the Wi-Fi credentials provided. If successful, the *Wi-Fi LED* will turn blue, and if there is a strong internet connection, the *Internet LED* will also turn blue after about 30 seconds. If unsuccessful, the *Wi-Fi LED* will be flashing blue, and you should repeat this process (from Step 2). For more information about which Wi-Fi network the SolShare is connected to, consult the commissioning app at <https://commissioning.allumeenergy.com/wifi-status>.
6. Once a successful Wi-Fi connection has been made, reconnect your device to the internet in preparation for the commissioning steps below.



If you are having troubles with this process or need more detail, consult the *How to set-up/change Wi-Fi credentials* document.

B. Commissioning the SolShare



Important:

Prior to starting the commissioning process, check the *Power LED* on the SolShare. If it is blue, there is a firmware update in progress. Do not power down the SolShare or start the commissioning process while the SolShare is updating its firmware.



Important:

Ensure that the SolShare is connected to a Wi-Fi network (indicated by a blue *Wi-Fi LED*) with a strong internet connection (indicated by a blue *Internet LED*) prior to starting the commissioning process.

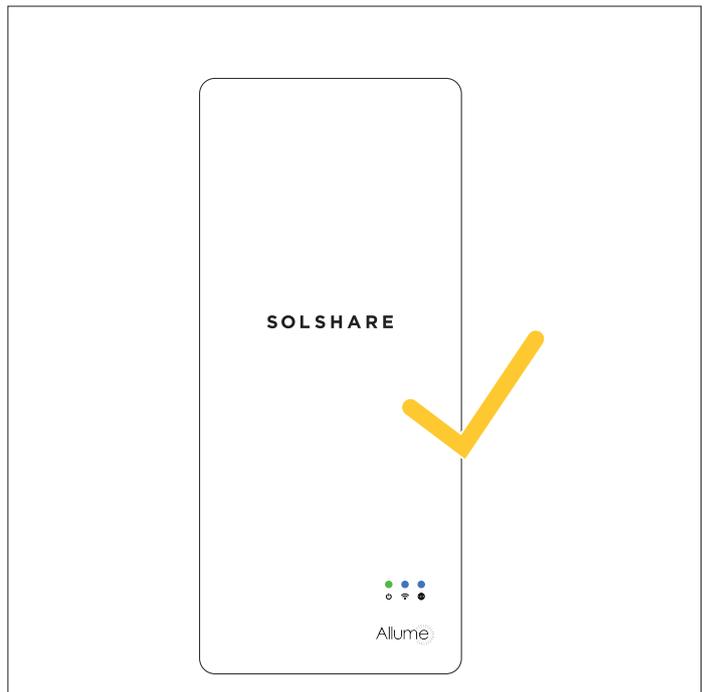
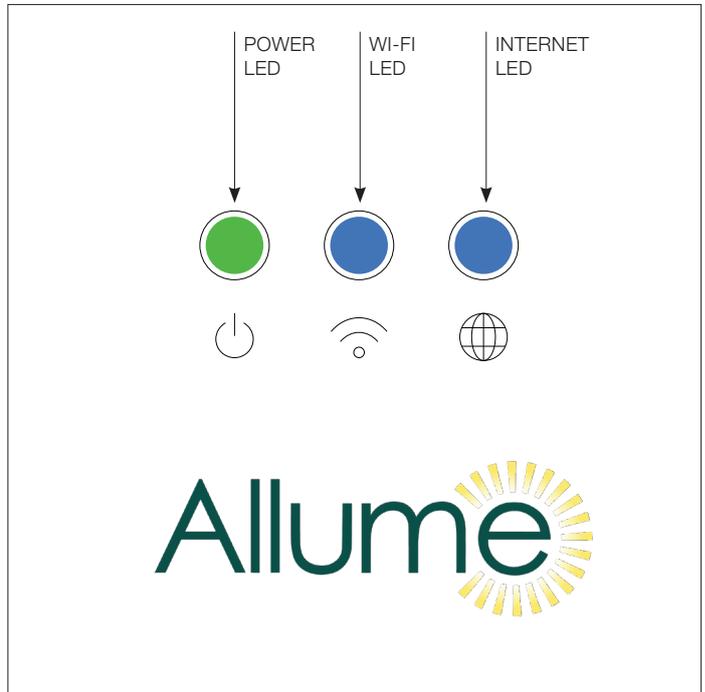
1. To commission the SolShare, scan the QR code on the right side of the SolShare or go to <https://commissioning.allumeenergy.com> to access the SolShare Commissioning App.
2. Follow the steps in the Commissioning App to commission each SolShare. The Commissioning App Guide provides more information on the commissioning process. NOTE: The SolShare requires a fully operational inverter in order to complete commissioning. During the SolShare commissioning process, you will be prompted to commission the inverter. Please make sure that the inverter is ready to be commissioned prior to starting the commissioning process for the SolShare.
3. Once the commissioning process has been completed successfully, the *Power LED* will be green, and the *Wi-Fi LED* and *Internet LED* will be blue as shown in the graphic to the right. Consult the table about the SolShare's LED states in Appendix A for more information.

If you experience issues with the commissioning process contact Allume Technical Support:

US

Tel: (213) 347-4293

Email: support@allumeenergy.com



Appendix A: SolShare LED States

LED Status		Meaning	Notes / Actions
Power LED			
Green	     	The SolShare is powered on, has been commissioned successfully, and the SolShare is distributing solar normally.	
Blue	     	The SolShare is powered on and is performing a firmware update.	Do not power off the SolShare while it is performing a firmware update.
Yellow flashing	     	The SolShare is powered on and has not yet completed the commissioning process.	
Yellow or Red	      	The SolShare is powered on and is experiencing a fault and/or the SolShare is not distributing solar.	Consult the SolShare Commissioning App. It is normal to see the yellow light during non-sunlight hours.
No lights on	     	The SolShare is not powered on.	Check SolShare Maintenance Isolators (Grid) and Tenancy Main Switches (Inverter Supply) are not switched off.
Wi-Fi LED			
Blue	     	The SolShare is connected to a Wi-Fi network.	
Blue flashing	      	The SolShare is in <i>Wi-Fi access point mode</i> .	Follow the steps in Section IV Commissioning / Part A to connect the SolShare to a Wi-Fi network.
Yellow	      	The SolShare is not connected to a Wi-Fi network and is not in <i>Wi-Fi access point mode</i> .	Ensure the Wi-Fi router is powered on and within range of the SolShare. Check the Wi-Fi SSID and password and re-enter the credentials if they were incorrect by following the steps in Section IV Commissioning / Part A to connect the SolShare to a Wi-Fi network.
Internet LED			
Blue	      	The SolShare has a strong internet connection.	
Yellow	      	The SolShare does not have a strong internet connection, or cannot communicate with Allume's servers.	Ensure the router has an internet connection. Ensure all required ports are open (consult the Troubleshooting section of Allume's <i>How to set-up/change Wi-Fi credentials</i> document).



This manual is intended for installations in **The US**.
Specifications are subject to changes without advanced notification.

For the most up to date documentation, visit www.allumeenergy.com

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