

ANKER SOLIX


Anker SOLIX X1 AU

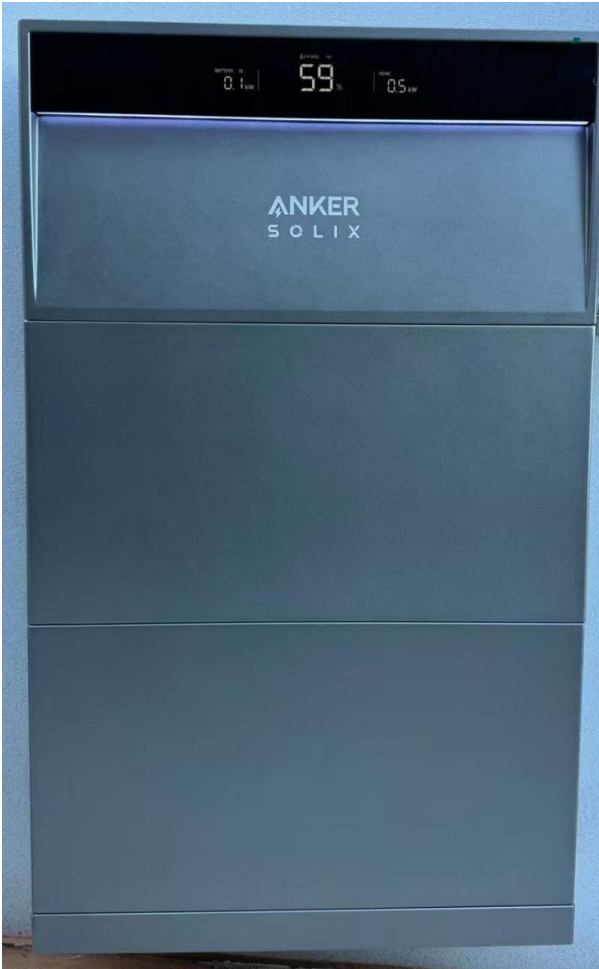
Updated on 03/2025

Configuration list

Configuration list


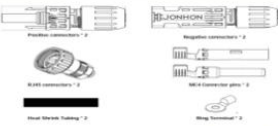

Wall mounting (Optional): When the floor is very uneven, please consider wall mounting;
If the system is floor-mounted, install the base.(default)

Wall Mounting scenario	A5674AZ1		Wall Mounting Bracket	/	Rack for wall mounting installation	Optional
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Configuration list



Second row battery installation: when the battery pack is greater than 4, it is necessary to install the second row of batteries, please optional these three accessories.

A5671A11		Battery Module Top Cover	/	Cover for system with over 3 battery modules.	Optional																																																																																																																																				
A5684A11		2nd Column Battery Module Accessory Kit	/	<table border="1"><caption>X1-B5-H 2nd Column Battery Module Accessory Kit</caption><thead><tr><th>No.</th><th>Item</th><th>Item Code</th><th>Specification</th><th>Amount</th><th>Check</th></tr></thead><tbody><tr><td colspan="6">Components</td></tr><tr><td>1</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>2</td><td>Bottom Cover</td><td>5684A11</td><td>Bottom Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>3</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>4</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>5</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>6</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>7</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>8</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>9</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>10</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>11</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>12</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>13</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>14</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>15</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>16</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>17</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>18</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>19</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr><tr><td>20</td><td>Top Cover</td><td>5684A11</td><td>Top Cover</td><td>1</td><td><input type="checkbox"/></td></tr></tbody></table>	No.	Item	Item Code	Specification	Amount	Check	Components						1	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	2	Bottom Cover	5684A11	Bottom Cover	1	<input type="checkbox"/>	3	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	4	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	5	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	6	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	7	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	8	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	9	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	10	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	11	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	12	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	13	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	14	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	15	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	16	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	17	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	18	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	19	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	20	Top Cover	5684A11	Top Cover	1	<input type="checkbox"/>	Optional
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A5670AZ1		Floor Mounting Base	/	Base plate for ground mounting installation	Optional																																																																																																																																				

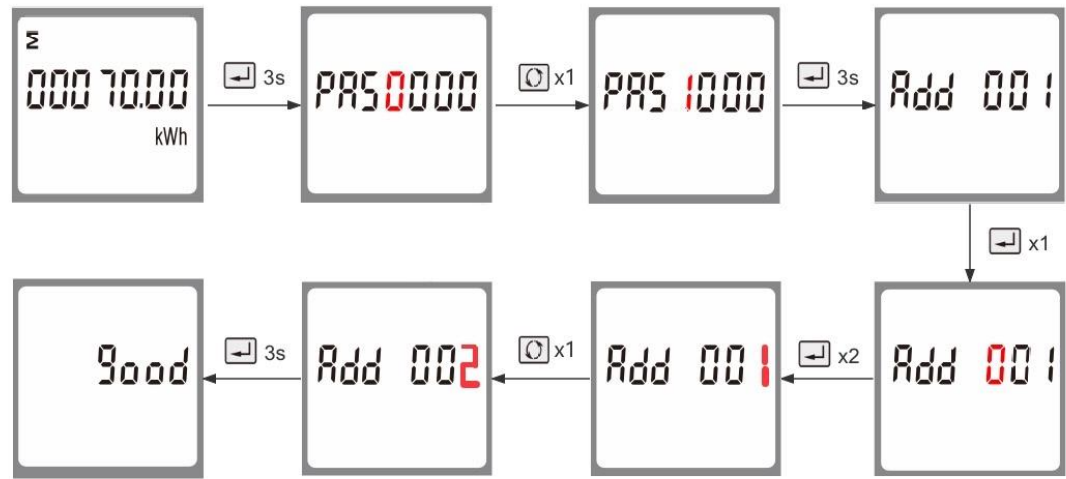


Configuration list

AC coupled X1 does not configure any meter, 2 optional meters are required. Please refer to the list for specific models.

A5420G21		Power Sensor	SDM230-Modbus v1
A5430G21		Power Sensor	DTSU666

To set address on the SDM230-Modbus V1 single phase meter, refer to the figure below. You want to set the grid-side power sensor address to 1 (default address), and the PV-side power sensor address to 2.



AC Solution

Power sensor selection



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Models marked in red must buy.



Grid / Phase	Third-Party Inverter / Phase	X1 / Supported Phases	Grid Power sensor/Phases	PV Power sensor/Phases	Support
Single-Phase	Solar 1P	AC coupled	SDM230 1P	SDM230 1P	Support
Three-Phase	Solar 3P	AC coupled	DTSU666 3P	DTSU666 3P	Support
Three-Phase	Solar 1P	AC coupled	SDM230 1P	DTSU666 3P	Support
Three-Phase	2* Solar 1P	AC coupled	DTSU666 3P	DTSU666 3P	Support
Three-Phase	3* Solar 1P	AC coupled	DTSU666 3P	DTSU666 3P	Support

Configuration list

The Hybrid X1 single phase configure with a single phase meter.

A5420	A5420G22		Power Sensor	DDSU666		Optional (already included in the power module)
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The Hybrid X1 three phase configure with a three phase meter.

A5430	A5430G21		Power Sensor	DTSU666		Optional (already included in the power module)
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Configuration list








Models marked in red must buy.

Grid / Phase	Third-Party Inverter / Phase	X1 / Supported Phases	PV Power sensor/Phases	Grid Power sensor/Phases	Support
Single-Phase	/	Hybrid 1P	/	DDSU666 1P	Support
Three-Phase	/	Hybrid 1P	/	DTSU666 3P	04.25
Three-Phase	/	Hybrid 3P	/	DTSU666 3P	Support
Single-Phase	Solar 1P	Hybrid 1P	DDSU666 1P	DDSU666 1P	Support
Three-Phase	Solar 3P	Hybrid 1P	DTSU666 3P	DTSU666 3P	04.25
Three-Phase	Solar 3P	Hybrid 3P	DTSU666 3P	DTSU666 3P	Support
Three-Phase	Solar 1P	Hybrid 1P	DTSU666 1P	DDSU666 3P	04.25 Support
Three-Phase	Solar 1P	Hybrid 3P	DTSU666 1P	DDSU666 3P	Support
Three-Phase	2* Solar 1P	Hybrid 1P	DTSU666 3P	DTSU666 3P	04.25 Support
Three-Phase	2* Solar 1P	Hybrid 3P	DTSU666 3P	DTSU666 3P	Support
Three-Phase	3* Solar 1P	Hybrid 1P	DTSU666 3P	DTSU666 3P	04.25 Support
Three-Phase	3* Solar 1P	Hybrid 3P	DTSU666 3P	DTSU666 3P	Support

Solution

Hybrid Solution

Scenario Overview

							
Scenario	Single System	Parallel System	3rd PV Inverter + Anker ESS	No PV	Off-Grid	Heat Pump + Anker ESS	Anker EV Charger + Anker ESS
Hybrid Single-Phase System	✓	✓	✓	✓	✓	✓	✓
Hybrid Three-Phase System	✓	✓	✓	✓	✓	✓	✓

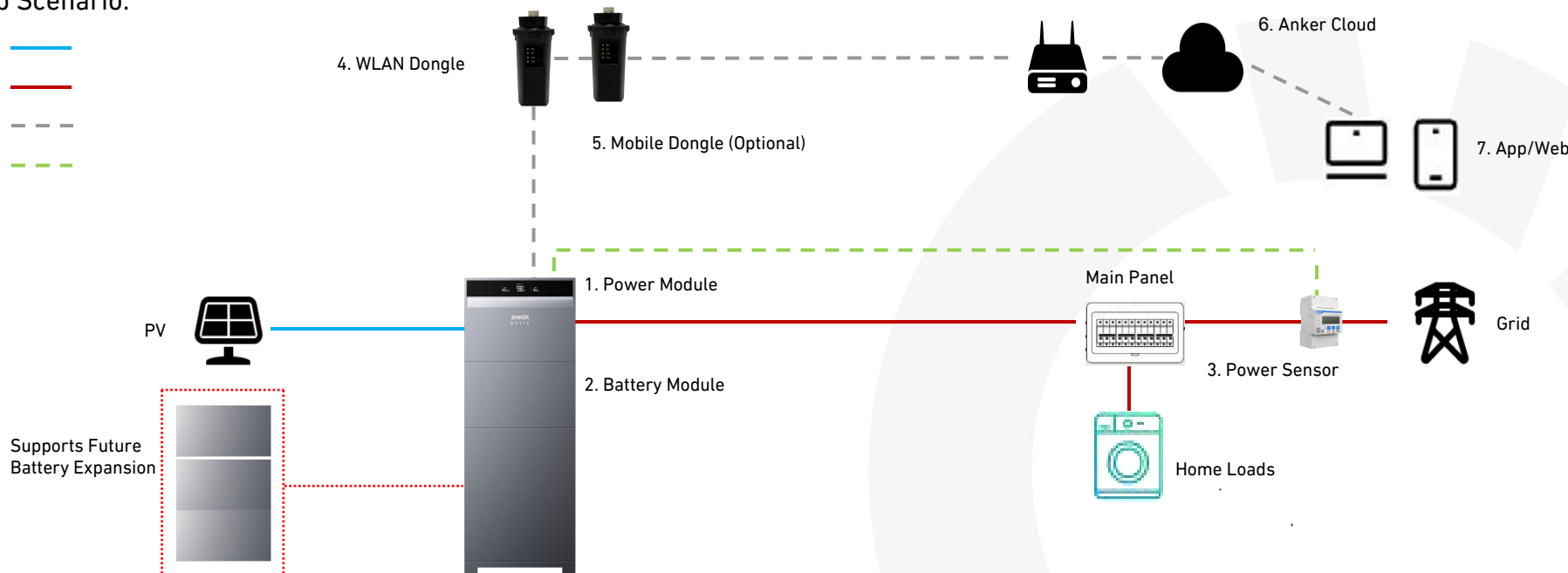
Hybrid Solution

Single ESS Scenario (Single-Phase / Three-Phase)



No Backup Scenario:

DC ———
AC ———
WLAN - - -
RS485 - - -



Full-Power Recommended Matching:

Hybrid Single-Phase System	X1-H3.68K-S	X1-H4.6K-S	X1-H5K-S	X1-H6K-S
Recommended Battery Quantity	1	2	2	2
Hybrid Three-Phase System	X1-H5K-T	X1-H8K-T	X1-H10K-T	X1-H12K-T
Recommended Battery Quantity	2	3	3	4

Application Notes:

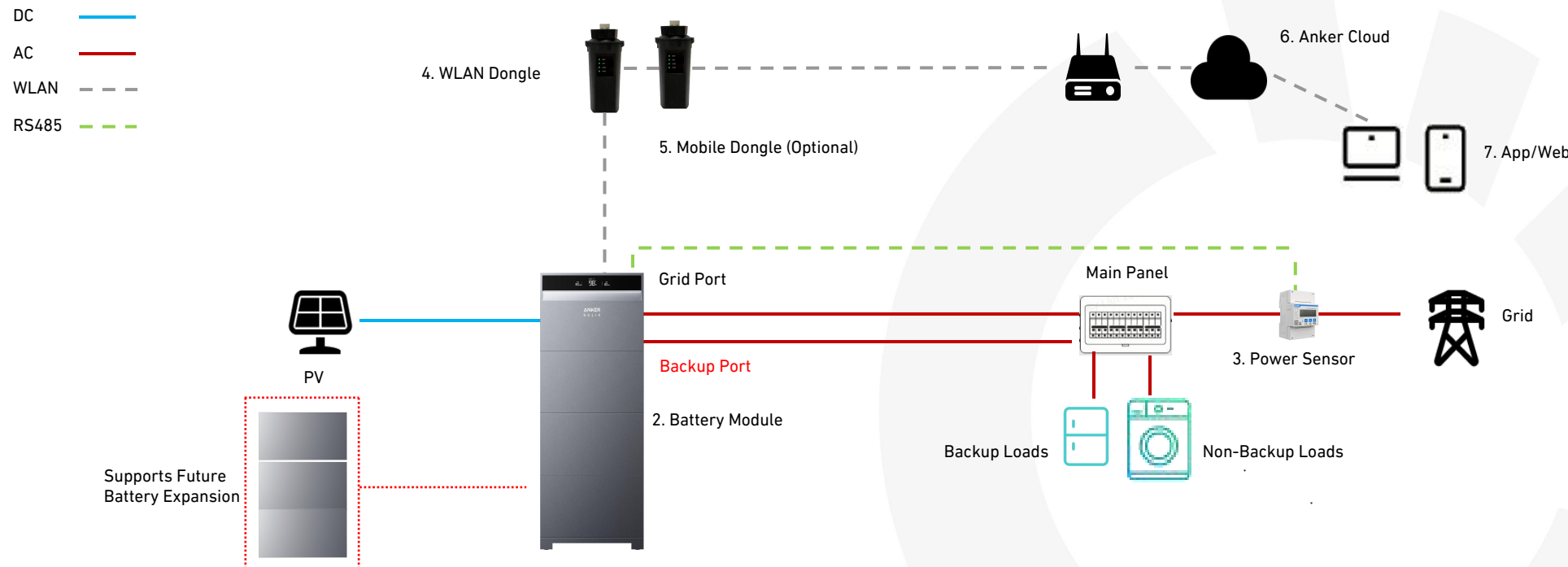
- Single-system solution design, adapted to general household scenarios.
- Supports future increases in capacity. One power module can support a maximum of 6 batteries. Capacity ranges between 5kWh and 30kWh.
- Output: 3.68kW-6kW (Single-Phase), 5kW-12kW (Three-Phase).

Hybrid Solution

Single ESS Scenario (Single-Phase / Three-Phase)



Partial Home Backup Scenario:



Application Notes:

- Operating: This scenario requires the load to be divided into **non-backup loads** and **backup loads** when connected to the grid as normal. Use X1 and the grid for non-backup loads and backup power supply. In off-grid scenarios, X1 can automatically supply power to **backup loads**.
- The power of connected backup loads cannot exceed the rated power of X1.

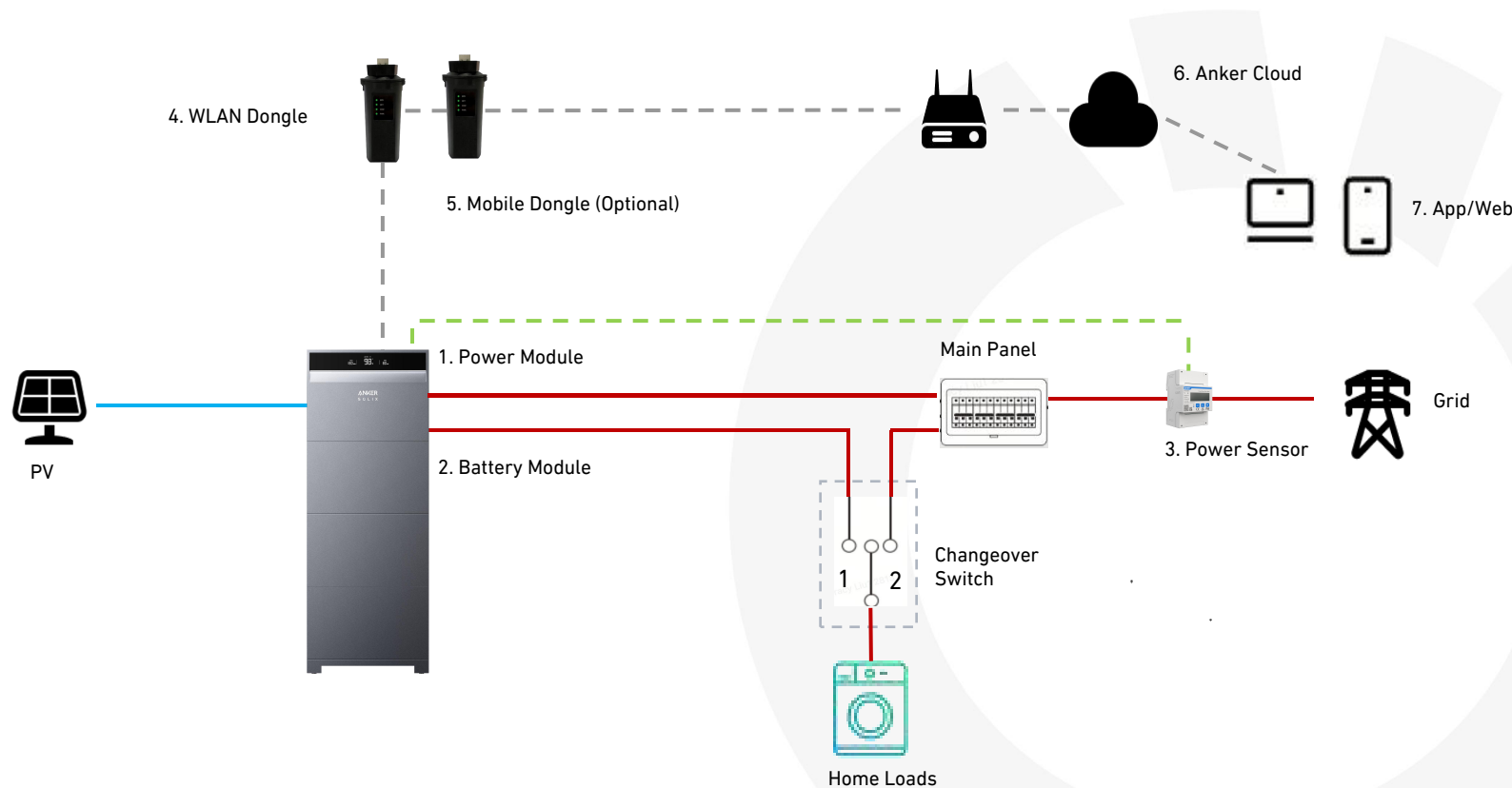
Hybrid Solution

Single ESS Scenario (Single-Phase/ Three-Phase)



Whole-Home Backup Scenario:

DC ———
AC ———
WLAN - - -
RS485 - - -



In this scenario, there is no need to separate the loads. The main panel for the home is connected to home loads by the commonly used changeover switch (provided by installer) in Australia.

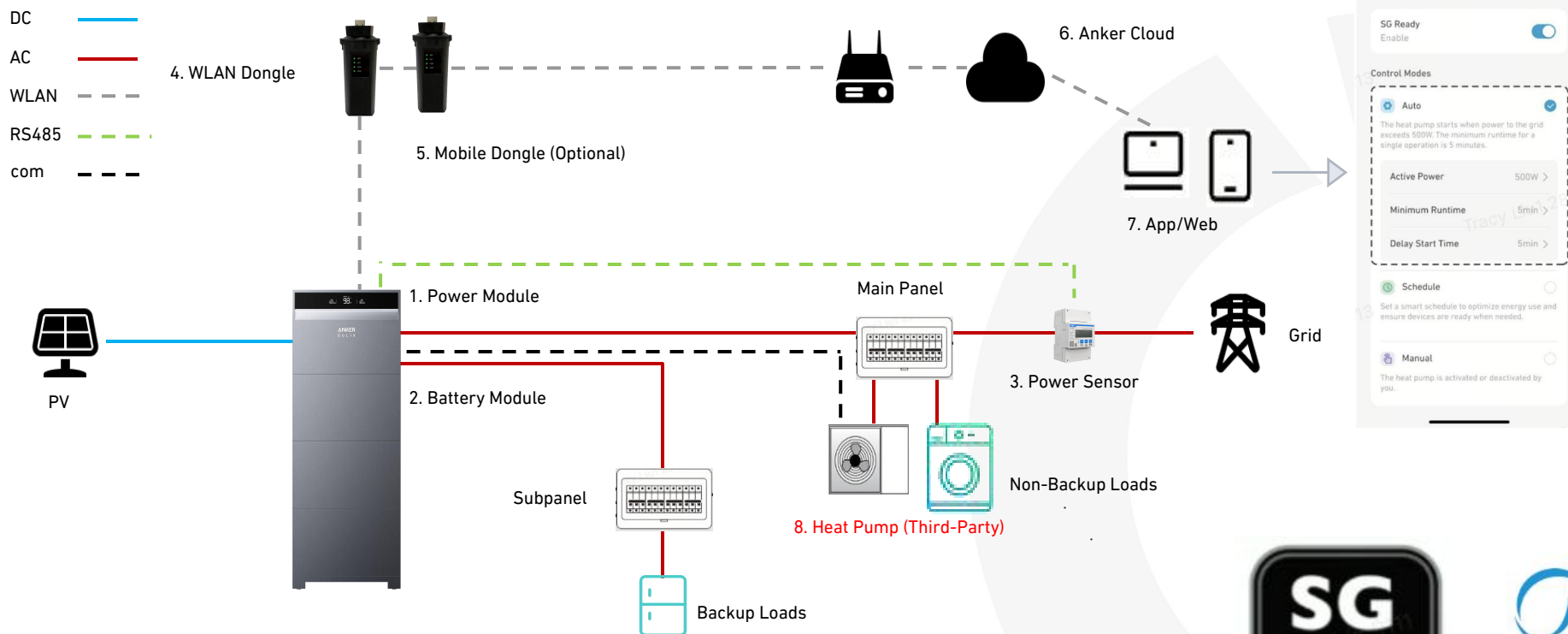
- When connected to the grid, the switch should be set to the Input 2 (Grid) channel, allowing both X1 and the grid to supply power to backup and non-backup loads.
- In the event of a grid outage, the homeowner must manually switch to the Input 1 (X1) channel. This setup enables flexible load management, allowing users to selectively decide which household loads will participate in backup power supply, achieving customisable whole-home power backup.

Note: The power of simultaneous working backup loads **cannot exceed the rated power of X1**.

Hybrid Solution

Heat Pump + Anker ESS Scenario

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Supported Modes: Manual, Schedule, Auto (Excess PV Energy)

- **Manual:** Switch heat pump on/off.
- **Schedule:** Switch heat pump on/off at a set time.
- **Auto:** Set heat pump power and excess PV energy will be supplied to the heat pump automatically.

Priority: Base Load --> Energy Storage -> Heat Pump



✓

✓

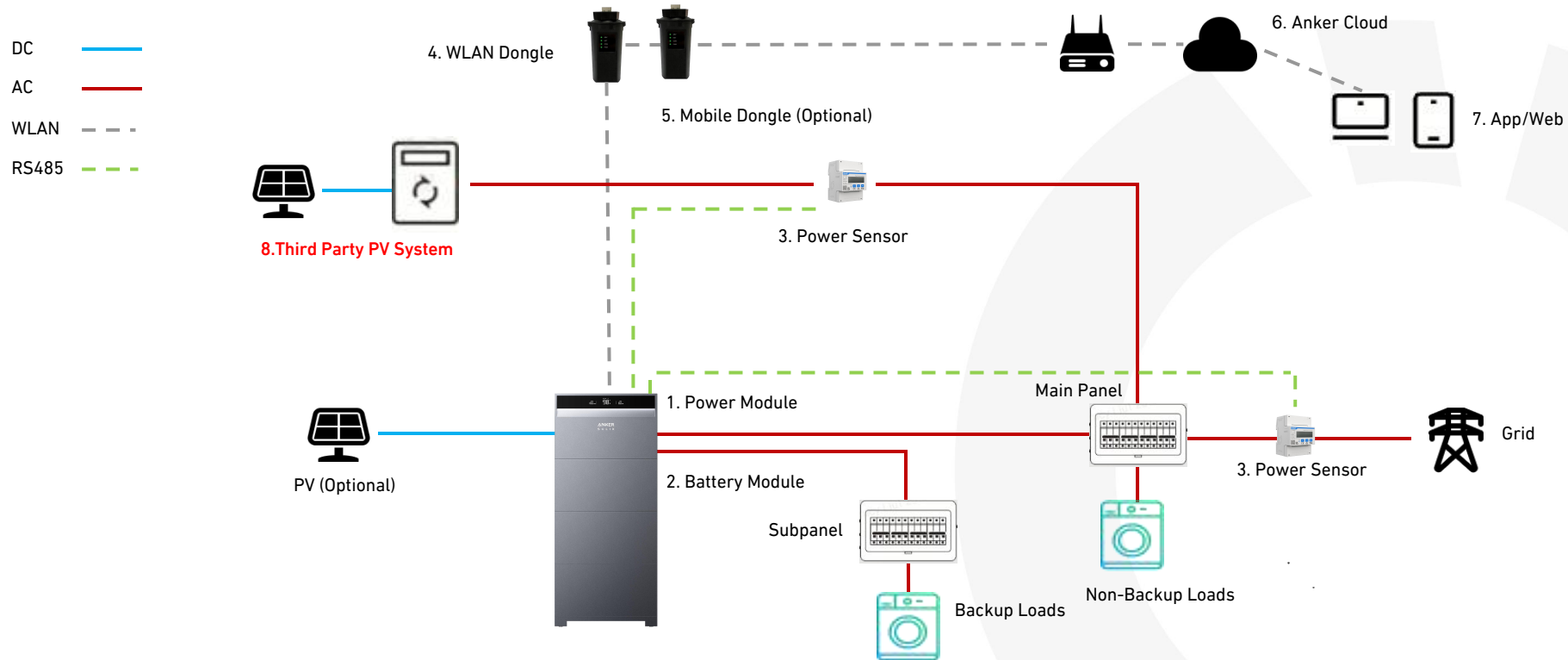
Application Notes:

- Supports heat pumps with the SG-Ready tag.
- Connect the heat pump through the DI/DO port of the inverter to control SG-Ready Mode 2 and Mode 3 statuses.
- This setup supports a grid connection parallel scenario (same power level and same phase).

Hybrid Solution



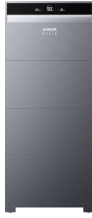
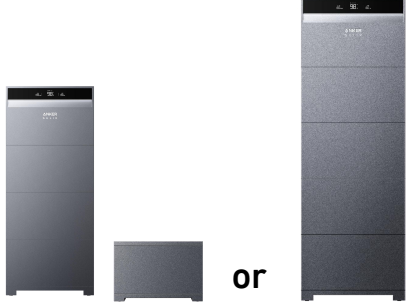


Third-Party PV Inverter + Anker ESS Scenario

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- X1 power selection can be adjusted based on actual requirements. There is no requirement to match the power of the current system.
- This mode supports grid connected parallel scenarios (same power level and same phase).
- The single-phase and three-phase selection of the PV meter and grid meter needs to match the phase of the inverter and ESS.

System Stacking—Single Power Module

						
Configuration	1 Power Module 1 Battery Module	1 Power Module 2 Battery Modules	1 Power Module 3 Battery Modules	1 Power Module 4 Battery Modules	1 Power Module 5 Battery Modules	1 Power Module 6 Battery Modules
Grid-Tied Max Output	5kW / 5kWh With PV: 5kW Without PV: 3kW	5kW / 10kWh With PV: 5kW Without PV: 5kW	10kW / 15kWh With PV: 10kW Without PV: 9kW	10kW / 20kWh With PV: 10kW Without PV: 10kW	10kW / 25kWh With PV: 10kW Without PV: 10kW	10kW / 30kWh With PV: 10kW Without PV: 5kW
Battery Capacity	5kWh	10kWh	15kWh	20kWh	25kWh	30kWh
Installation	1 Column	1 Column	1 Column	1 or 2 Columns	2 Columns	2 Columns

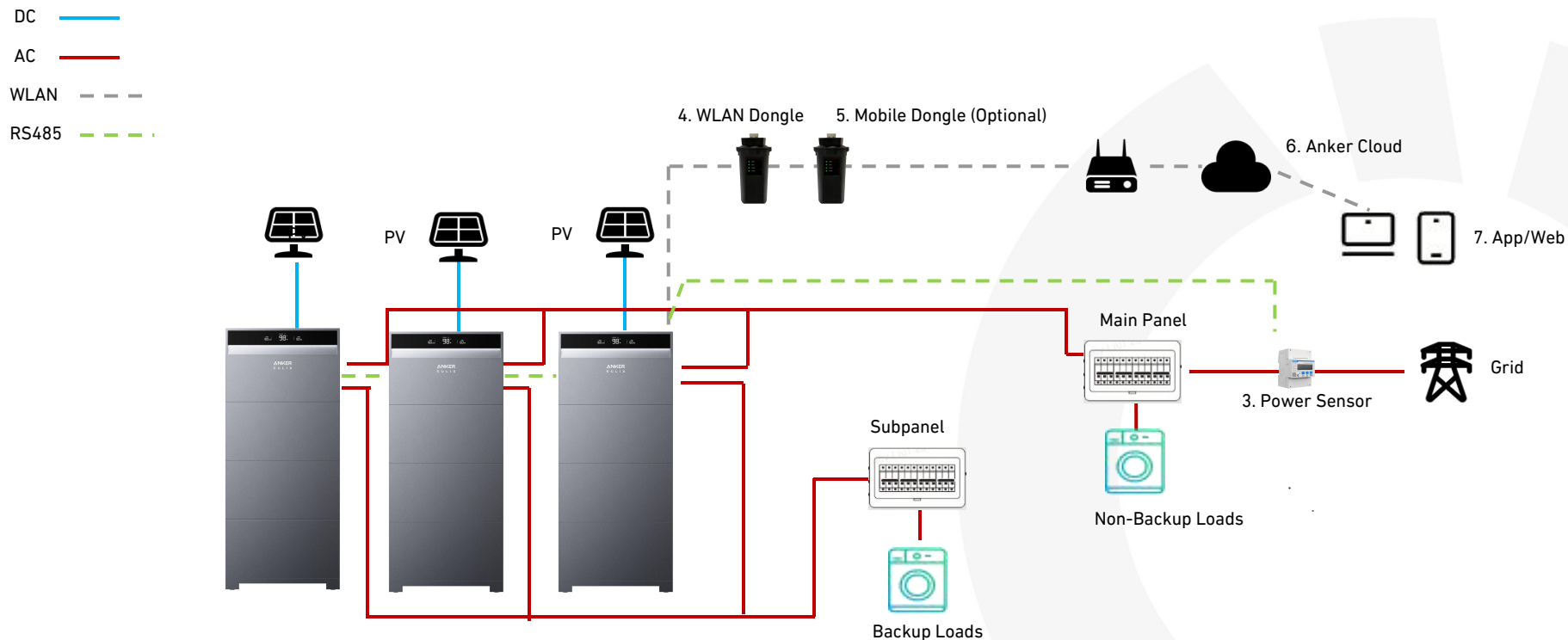
Application Notes:

- Recommended power of power module should be greater than the maximum load power.
- When supplying loads in on-grid scenarios, you need to simultaneously test the power module maximum output and the battery charging and discharging power. Select the smaller power value that satisfies both.
- The maximum output selected (e.g. 5kW and 10kW) will also affect the number of battery modules required.

Hybrid Solution

Parallel Scenario (Single-Phase ESS)

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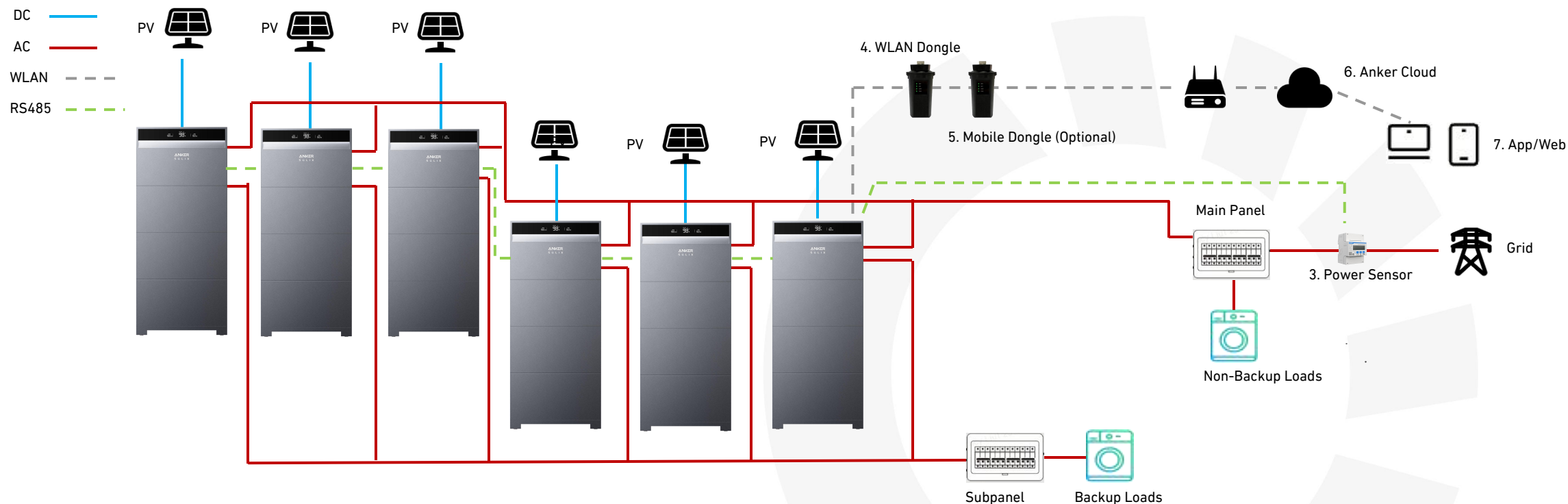
Application Notes:

- Grid connection of 3 X1s in parallel is planned for release in **Q2 2025**.
- Off-grid parallel backup power is planned for release in **Q4 2025**, providing enhanced off-grid capabilities. While off-grid, hybrid three phase systems only use power from up to **2 X1s** in parallel even if the parallel system has **3 X1s**.
- The entire system needs **only one dongle**. Select one X1 as the master controller and connect the dongle to its WLAN port for system communication. Connect the RS485 communication line of the power sensor to the master controller to monitor power flow.
- The power module offers flexible configuration options, ranging from **3.68kW to 18kW (single-phase)**, with a capacity range between **5kWh to 60kWh**. For higher backup capacity requirements, please reach out to the Anker SOLIX technical team for assistance.

Hybrid Solution

Parallel Scenario (Three-Phase ESS)

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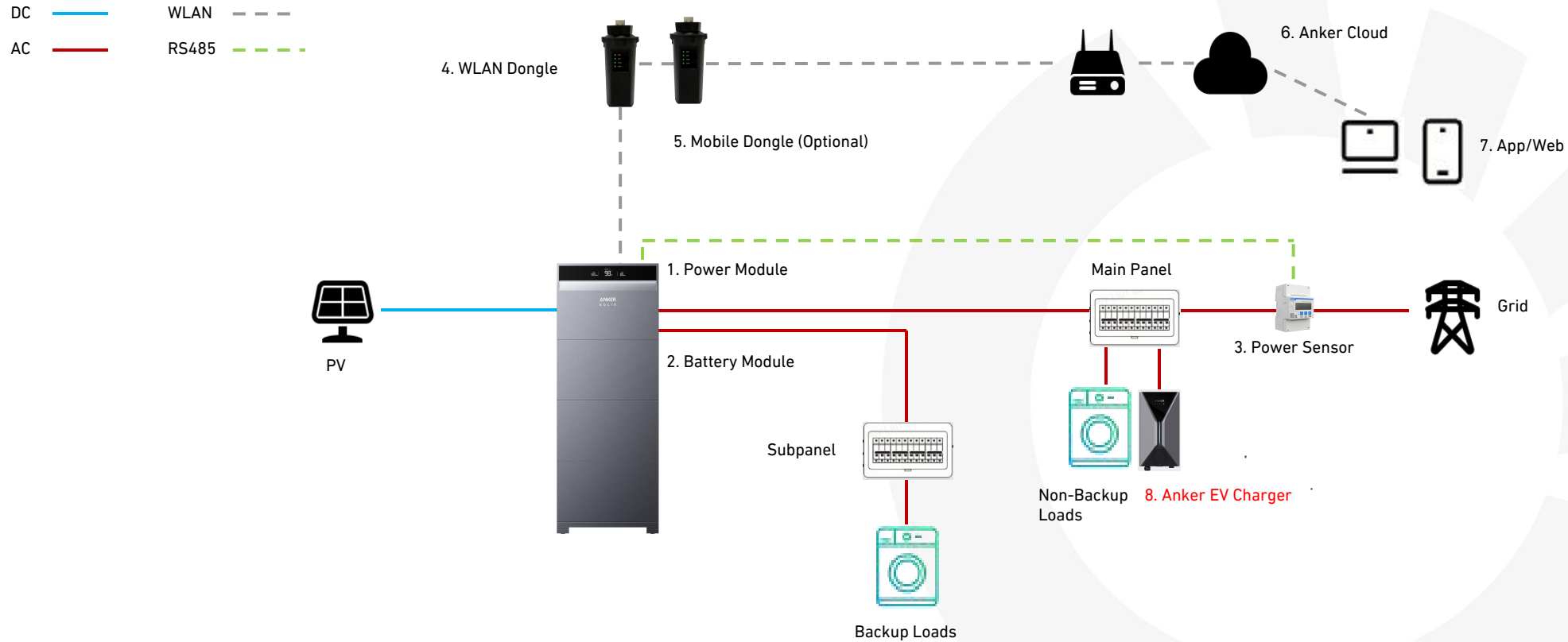
Application Notes:

- Grid connection of 2 X1s in parallel is planned for release in **Q2 2025**. Grid connection of 6 units in parallel should release in **Q4 2025**.
- Off-grid parallel backup power is planned for release in **Q3 2025**, providing enhanced off-grid capabilities.
- While off-grid, hybrid three-phase systems only use power from up to **2 X1s** in parallel even if the parallel system has between **3 to 6 X1s**.
- The entire system needs **only one dongle**. Select one X1 as the master controller and connect the dongle to its WLAN port for system communication. Connect the RS485 communication line of the power sensor to the master controller to monitor power flow.
- The power module rating can be easily adjusted from **5kW to 72kW** (three-phase), with capacity from **5kWh to 120kWh**. For higher backup capacity requirements, please reach out to the Anker SOLIX technical team for assistance.

Hybrid Solution

EV Charger + Anker ESS Scenario (Coming in H2 2025)

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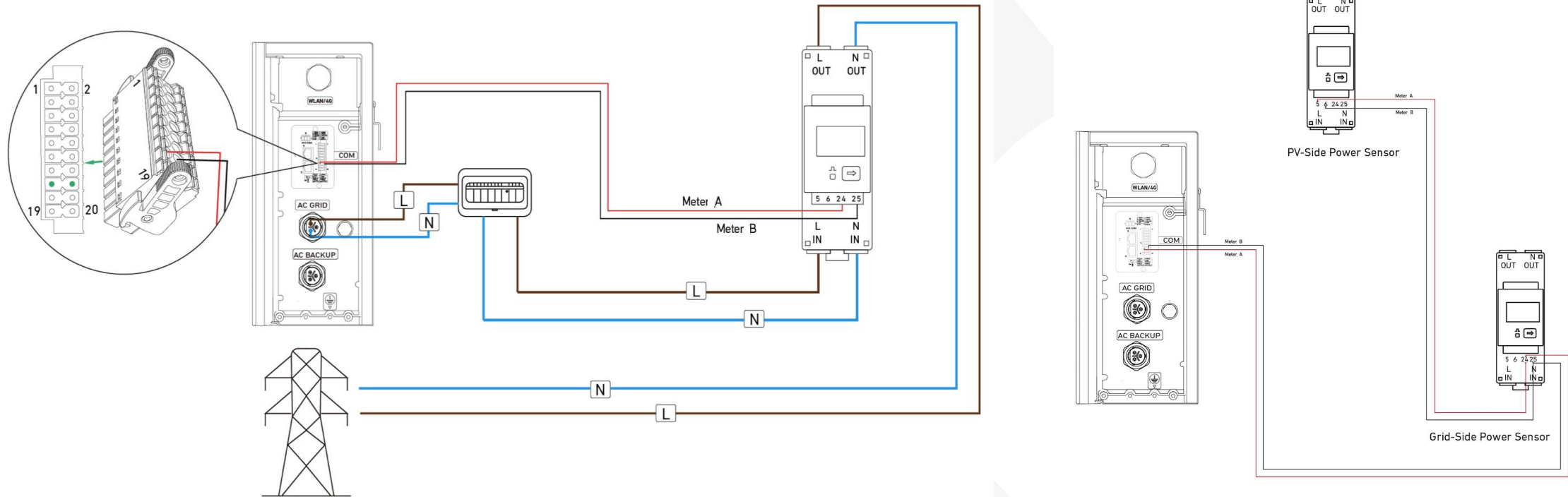


Application Notes:

- Promotes Anker's ecosystem and can also be managed through the Anker app.
- Connecting to the ESS allows more energy storage across the system.
- This setup reduces solar waste and alleviates the load on the grid.
- This mode supports a parallel setup (same power level and phase).

Hybrid Solution

DDSU666 Wiring Method (Single-Phase)



Notes:

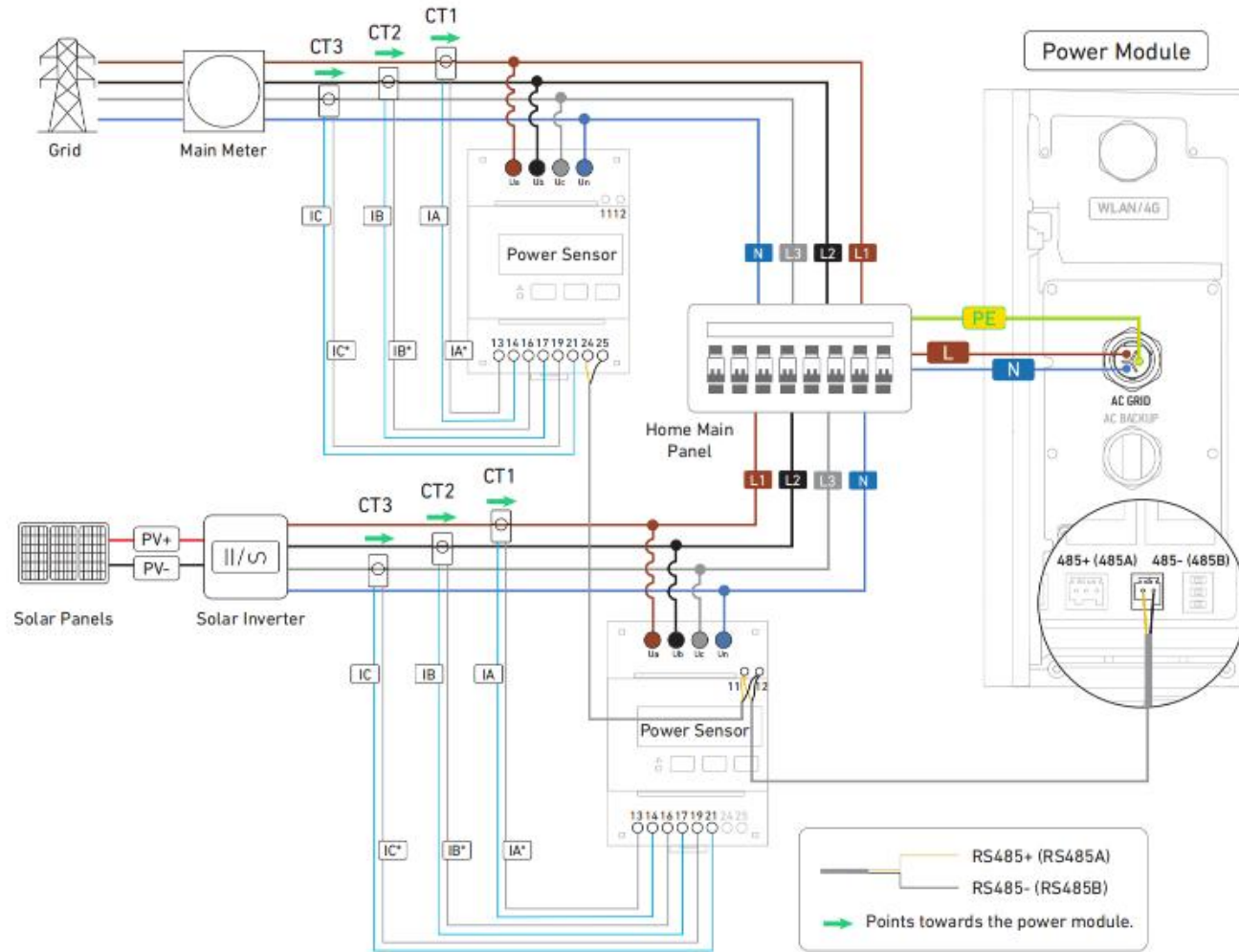
- Meter Cable: Com Port----> Meter
- L/N Cable: AC Grid Port----> Meter----> Grid

Third-Party PV Inverter + Anker ESS Scenario

- Grid Side Meter (Address: 1) (24, 25)
- PV Side Meter (Address: 2) (5, 6)

Hybrid Solution

DTSU666 Wiring Method

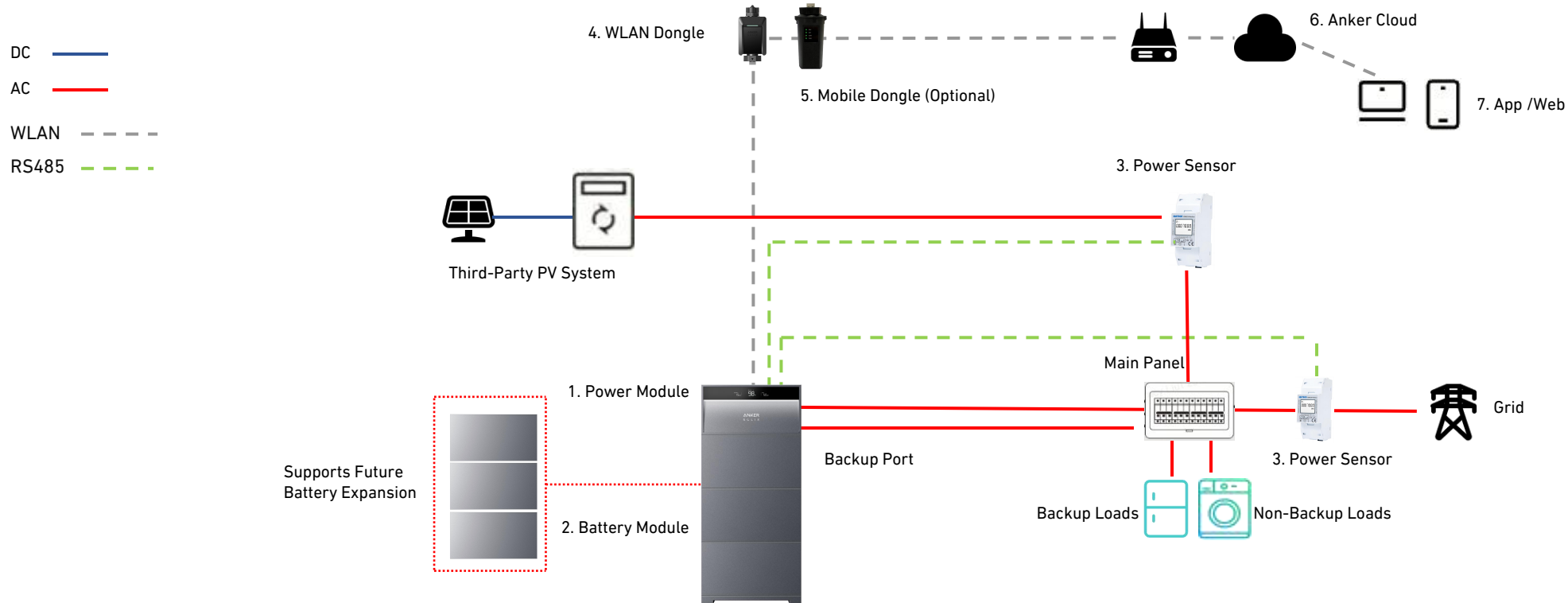


Notes:

- Grid-side power sensor (Address 1).
- PV-side power sensor (Address 2).
- Connect CT1 to the L1 cable, CT2 to the L2 cable, and CT3 to the L3 cable at respective input ports on the power sensor.
- CT Direction: Grid ---> Loads
- The PE wire from the AC grid port should be connected to the panel ground point.

AC-Coupled Solution

Single ESS Scenario



Limitations:

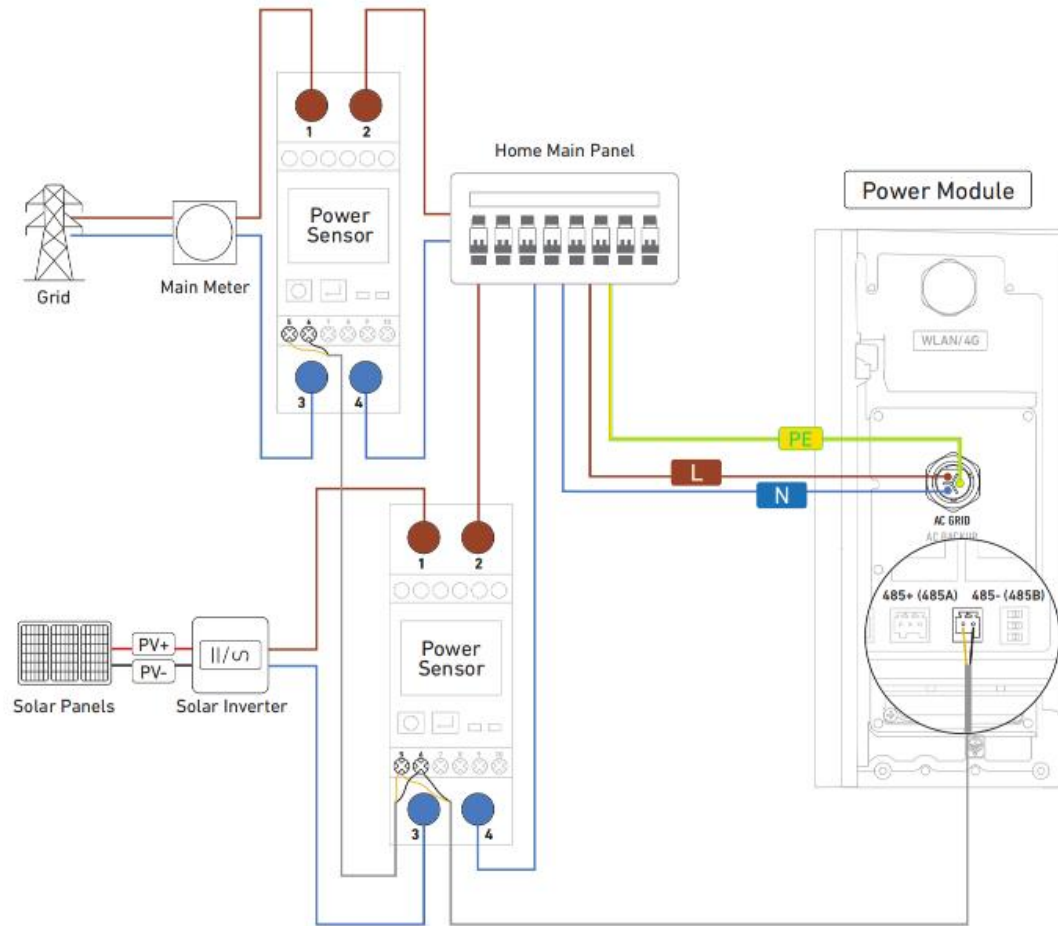
- 6kW power module rating; 5kWh - 30kWh battery module rating.
- 1× battery module should support backup loads of no more than 3kW.
- 2-6× battery modules should support backup loads of no more than 6kW.
- Single-phase loads with backup requirements should be connected to backup loads.

Power Sensor Guide:

- Single-Phase Electrical Service: SDM230-Modbus V1 or DTSU666 250A.
- Three-Phase Electrical Service: DTSU666 100A or DTSU666 250A.
- Installation Location: Grid and PV sides.

AC-Coupled Solution

SDM230-Modbus V1 Wiring Method



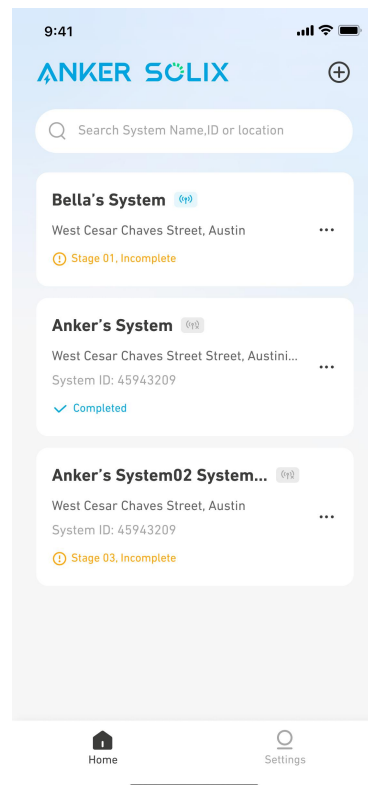
Notes:

- Grid-side power sensor (Address 1).
- PV-side power sensor (Address 2).
- PE wire from AC grid port to panel ground point.

App and Web

Software Application Introduction

Installer App: Anker SOLIX Professional



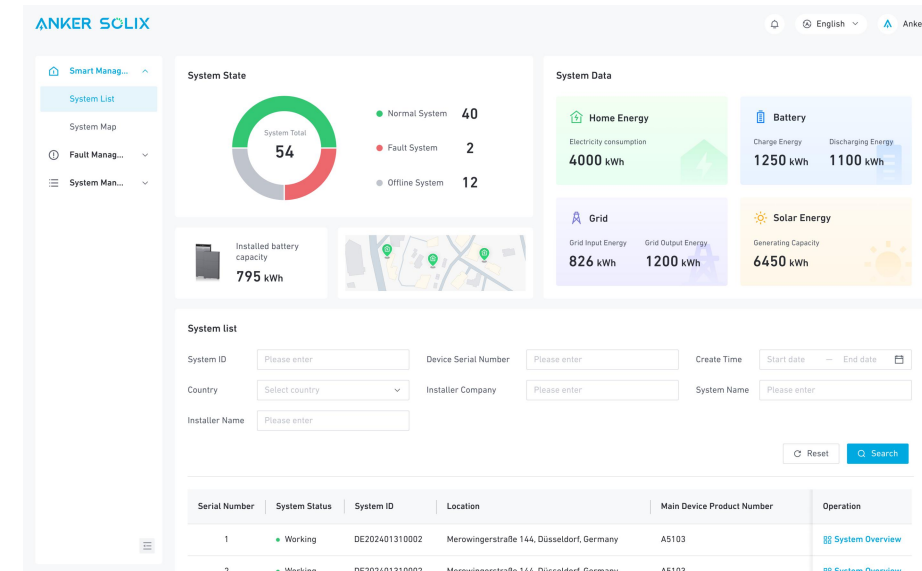
- Tools for installers during installation and commissioning.

User App: Anker



- Provides homeowners with relevant system monitoring and management, etc.

O&M Portal: Anker SOLIX Professional

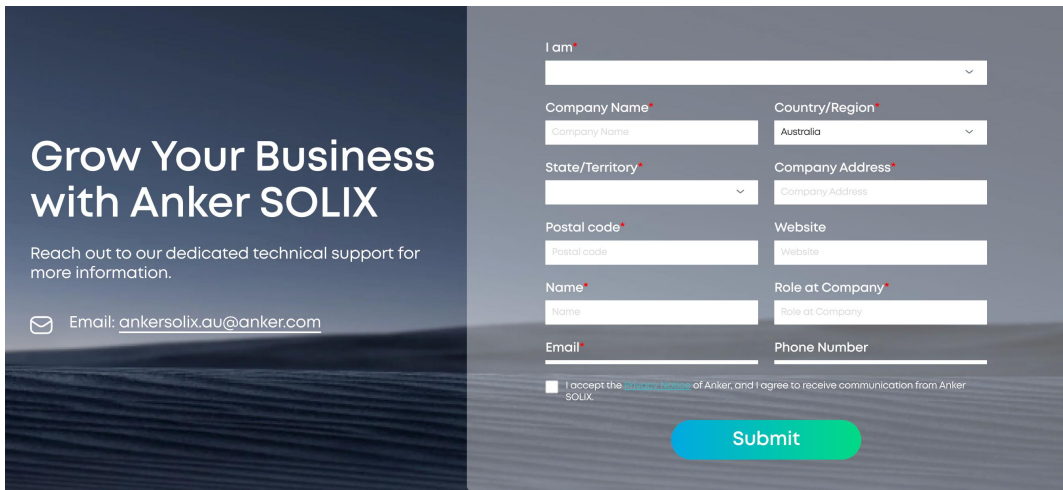


- Provides remote monitoring, operation, maintenance, and more for installers.

Onboard

<https://support.ankersolix.com/s/article/Anker-SOLIX-X1-Installer-Onboarding-Guide-AU#section-5>

STEP 1: Submit Information

A screenshot of a web form for submitting business information. The form is titled "Grow Your Business with Anker SOLIX" and includes a contact email: ankersolix.au@anker.com. The form fields are: "I am" (dropdown), "Company Name" (text), "Country/Region" (dropdown with "Australia" selected), "State/Territory" (dropdown), "Company Address" (text), "Postal code" (text), "Website" (text), "Name" (text), "Role at Company" (text), "Email" (text), and "Phone Number" (text). There is a checkbox for accepting terms and a green "Submit" button at the bottom.

Grow Your Business with Anker SOLIX

Reach out to our dedicated technical support for more information.

Email: ankersolix.au@anker.com

I am*
Company Name*
Country/Region*
State/Territory*
Company Address*
Postal code*
Website
Name*
Role at Company*
Email*
Phone Number

☐ I accept the [Terms of Service](#) of Anker, and I agree to receive communication from Anker SOLIX.

Submit

Once submitted, we'll get back to you as soon as we can within 24 hours.

STEP 2: Register and Activate Account

<https://ankersolix-professional-us.anker.com/user/login>

Create sub-accounts for your electrician employees:

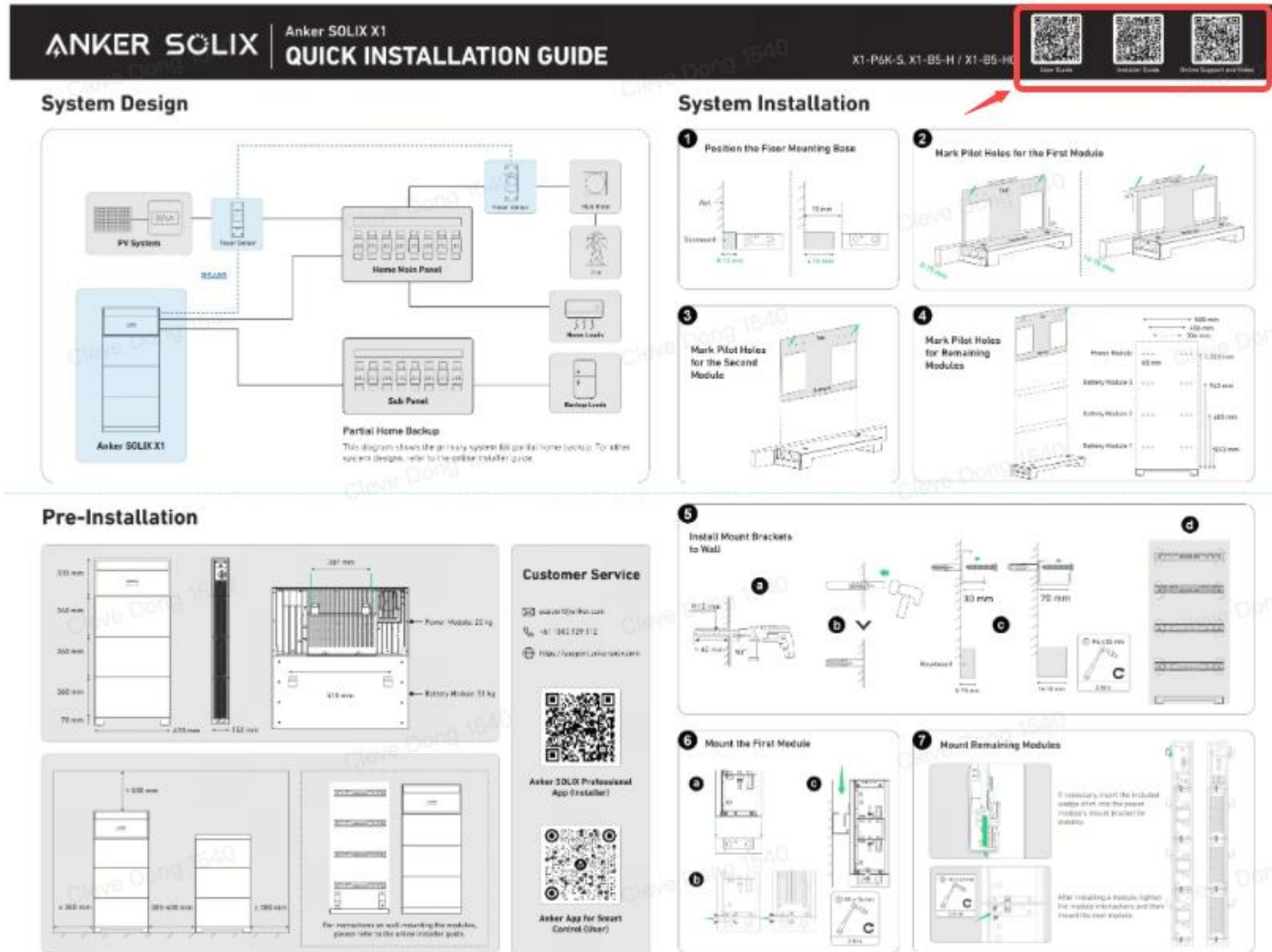
<https://www.youtube.com/watch?v=kOmacX82-k>

Onboard

STEP 3: Install Your First System

ANKER SOLIX

Scan Code to learn onsite when meet problem.

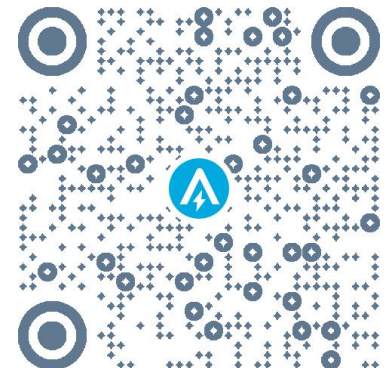


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Anker SOLIX
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Help owner
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Onboard

STEP 3: Install Your First System

X1 Hybrid single phase video: <https://www.youtube.com/watch?v=hF3goVle7C8>

X1 Hybrid three phase video: <https://www.youtube.com/watch?v=6irMWPfNZBQ>

X1 AC-Coupled video: <https://www.youtube.com/watch?v=Wux0J5MLZS4>

X1 Hybrid single phase Manual: <https://support.ankersolix.com/s/articlemanual?pn=A5102B>

X1 Hybrid three phase Manual: <https://support.ankersolix.com/s/articlemanual?pn=A5103B>

X1 AC-Coupled Manual: <https://support.ankersolix.com/s/articlemanual?pn=B5101B>

Commissioning video: <https://www.youtube.com/watch?v=dbZsE3EVEWk&list=PLufGggFu2F6lODoivp5WK4ukYoooFF3Ex>

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LIVE IN POWER