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# 1. About This Guide

This document provides information and use instructions about the Anker SOLIX X1 Power Module X1–H(3.68~6)K–S series or hybrid single–phase power modules.

# 2. Product Introduction

## 2.1 Product Overview

## Function

The Anker SOLIX X1 Power Module X1–H(3.68~6)K–S series (power module for short) is a hybrid single–phase power module that offers a comprehensive solution for home energy storage.

The power module can integrate with solar panels to convert excess energy into electricity, charge the batteries to store the energy in the batteries, and control the batteries to supply power to the loads. Without solar, the power module can control multiple battery modules to charge during low-cost electricity hours and discharge during high-cost electricity hours.

#### <u>Model</u>

The following table lists the Anker SOLIX X1 Power Module models to which this document applies.

Product Name	Anker SOLIX X1 Power Module	
Short Form	Power module	
Product Models	X1-H3.68K-S, X1-H4.6K-S, X1-H5K-S, X1-H6K-S	
X1: Product series		
	H: Product category (Hybrid inverter)	

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Description	(3.68~6)K: Power level (3.68 kW, 4.6 kW, 5 kW, 6 kW)			
	S: Type of AC power distribution (Single-phase)			
Specifications	220 / 230 / 240 VAC			

#### Battery Capacity

The Anker SOLIX X1 Power Module supports up to six Anker SOLIX X1 Battery Modules (Model: X1–B5–H). The following table lists the stacking examples and corresponding energy capacity.



#### 2.2 System Layout

The Anker SOLIX X1 Power Module applies to energy storage systems with partial home backup. The system stores energy from the grid or solar power and powers selected loads during a grid outage.

#### New-Build Scenario

The following diagram shows the wiring for a new system.

Figure: New system wiring.



### Retrofit Scenario

The following diagram shows the wiring for a retrofitted system. Figure: Retrofitted system wiring.



## 2.3 Product Appearance

Figure: Appearance of Anker SOLIX X1 Power Module X1-H(3.68~6)K-S.



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0	Status light
0	WLAN/4G port
Ð	Communication ports / terminals
ß	Breather valve
Ð	AC grid port
₿	AC backup port
ť	External ground point
Ð	Screw hole for locking modules
B	Heat sink
19	Wall-mount cleats

# 3. Screen and Light Guide

# 3.1 LED Screen Guide

The LED screen of the power module will show you the working status of the system.



#### 3.2 Status Light Indication

The power module's light bar will indicate the system status.

	Light Bar	Status	
ANKER Vol.1 z	Flashing white once, and then steady white	Powered on	
	Flashing white	Configuring or connecting to the Internet	
	Steady white	On–Grid mode	
	Steady blue	Off–Grid mode	
	Flashing blue	Battery low in Off-Grid mode	
	Flashing red	Malfunction	
	Flashing white in sequence	Firmware upgrading	

# 4. Anker App for Smart Control

The Anker app enables remote control of your system with the following features:

- · Remote access: Remotely power the system on / off, adjust electricity strategies, activate emergency backup power, and more.
- · Real-time monitoring: Track current power usage, generation, and storage.
- · Intuitive interface: Easily understand energy data by home scenes and topology.
- · Instant alerts: Receive notifications of system issues for quick resolution.



#### 4.1 Access Anker App (User)

1. Download the Anker app from the App Store (iOS devices) or Google Play (Android devices), or by scanning the QR code.



2. Log into the app. If you have not previously created an account, check the email to get your account name and initial password.

#### 4.2 Check Energy Data

The home screen provides insight into your home's energy use and generation.

Real-time energy flow:

Energy graphs over time:

work together to power your home.

Learn how the grid, solar system, and battery modules View energy graphs by components of your energy system. The timescale can be set to day, week, month, or year.



## 4.3 Customize Work Mode

Work modes change the way your power module transfers power. Select your preferred work mode to meet your home's specific energy needs. 1. Tap the settings icon in the top right corner of the home screen.

- 2. Open the Modes menu.
- 3. Choose one work mode from the following.

Self-Consumption	<ul> <li>Increase your home's reliance on solar power and reduce dependence on the grid.</li> <li>When you produce enough solar power to offset your home's consumption and fully charge the battery modules, any excess solar power will export to the grid.</li> <li>When you consume more power than what's available from your solar system and stored in the battery modules, you will import power from the grid.</li> </ul>	
Time of Use	The battery modules will charge when utility rates are the lowest, and power your home when utility rates are the highest. Make sure to edit your utility rate plan for weekdays and weekend.	
Go Off-Grid	<ul> <li>Power your home with solar power and the stored battery energy when the grid goes down.</li> <li>The Anker SOLIX X1's off-grid mode is incompatible with the Sunlight Backup mode of the Enphase microinverter. It is necessary to disable the Sunlight Backup mode of the Enphase microinverter before using the Anker SOLIX X1's off-grid mode.</li> </ul>	

4. Set backup reserve by adjusting the slider at the top of the screen.

- If you prefer to open more capacity for self-consumption mode or time-of-use mode, you can set a lower reserve percentage.
- · If you prefer to reserve more energy for use during a grid outage, or if your area is more prone to outages, you can set a higher reserve percentage.



# 4.4 Set Advanced Options

There are three advanced options that impact how the energy storage system exports and imports power to and from the grid.

- 1. Tap the settings icon in the top right corner of the home screen.
- 2. Open the Modes menu.
- 3. Scroll down to set the advanced options.

Grid Charging	Turn on to allow the grid to charge battery modules. Turn off to charge the battery modules only from solar power.		
Peak Shaving	Activate to smooth out peak loads and reduce overall charges on the grid. This is achieved by utilizing the stored battery energy.		
Rapid Battery Charging	Charge the battery modules at full speed using both grid and solar power.		
9:41 .ul 🕆 🖿	9:41 <b></b>	■ 9:41 <b></b>	?■
My Home v 🚺 💿 🕀	Settings	< Modes	
Solar Grid	Modes 2	Time of Use (	
2.75 KW 1.85 KW	🖆 Utilitiy Rate Plan 🔷	Go Off-Grid	
	L WLAN >	Disconnect from the grid and power hom loads with energy storage.	ne
	₿ Bluetooth Control	Advanced Options	
	Display Setting >	Grid Charging	
	() Power System On/Off >	Enable this feature to allow charging fro the grid under Time-of-Use mode. When displied X1 only charges from salar	m
Home Battery 3.15 kW 1.45 kW • 80% >		disabled, XT only charges from solar.	
	I Serial Number	Peak shaving	
CO, Savings Produced		Peak home power consumption has not been set.	
	Backup History		
Day Week Month Year	? Help & Feedback	Rapid Battery Charging	

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#### 4.5 Firmware Upgrade

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G Firmware Update

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To ensure your system can achieve optimal performance and use all the latest features, it is recommended to upgrade the firmware from time to time. 1. Pay close attention to upgrade prompts from the app. Once you receive a notification, we encourage you to proceed with the manual upgrade immediately to ensure your software is always up to date.

Charge the battery at full s grid and solar power.



2. If you want to check for firmware upgrade, go to Settings > Check for upgrade. If there's a new version, simply follow the on-screen instructions to complete the upgrade. You may choose Upgrade Now or Select Upgrade Time.





# 5. Maintenance

## 5.1 Power On / Off the System

To power on the system:

- 1. Toggle the BAT switch of the power module to ON.
- 2. Close the circuit breaker between the power module and the grid.
- 3. Toggle the PV switch of the power module to ON.
- To power off the system:
- 1. Toggle the PV switch of the power module to OFF.
- 2. Press the black start button of the power module for 8 seconds.
- 3. Disconnect the circuit breaker between the power module and the grid.
- 4. Toggle the BAT switch of the power module to OFF.
  - After the system powers off, residual electricity and heat may still cause electric shocks and burns. Wait for at least 2 minutes after powering off the system before performing any operations.
  - · Only qualified professionals or trained personnel are allowed to operate and maintain the equipment.
  - To force a startup of the power module, press the black start button for 3 seconds. To force a shutdown of the power module, press the same button for 8 seconds.

## 5.2 Routine Maintenance

To ensure the energy storage system operates properly for an extended period, it is recommended to perform routine maintenance.



/!\

Power off the system before cleaning it, connecting cables, and ensuring grounding reliability.

Check Item	Check Method	Maintenance Interval
System cleanliness	Check periodically that the heat sinks are free from obstacles and dust.	Once every 6 to 12 months
System running status	<ul> <li>Check that the battery is not damaged or deformed.</li> <li>Check that the battery does not produce abnormal sound during operation.</li> <li>Check that the battery parameters are correctly set when the battery is running.</li> </ul>	Once every 6 months
Electrical connection	<ul> <li>Check that cables are securely fastened.</li> <li>Check that cables are intact, and that in particular, the parts touching the metallic surface are not scratched.</li> <li>Check that unused terminals and ports are locked by waterproof or dustproof caps.</li> </ul>	The first inspection is 6 months after the initial commissioning. From then on, the interval can be 6 to 12 months.
Grounding reliability	Check that ground cables are securely connected.	The first inspection is 6 months after the initial commissioning. From then on, the interval can be 6 to 12 months.
	Check that the firmware is updated to	

the latest version via the app.

## 5.3 Troubleshooting

Only qualified professionals or trained personnel are allowed to install, operate, and maintain the equipment.

You will receive push notifications from the Anker app once a system fault is detected. Please have the following information available when contacting Anker.

- Owner name
- · Phone number or email address (the best way to contact you)
- Serial numbers
- $\cdot$  Brief description of the issue

For instance, if a ground fault is detected, the Anker app will send a notification, the light bar will turn red, and the power module screen will show 'EE.' which meets the Earth Fault alarm requirements of AS/NZS 5033.

## 6. Emergency Handling

In the event of any threat to health or safety, always begin with these two steps before addressing the other suggestions below:

1. Immediately contact the fire department or other relevant emergency response team.

2. Notify all people who might be affected and ensure that they can evacuate the area.



Only perform the suggested actions below if it is safe to do so.

#### 6.1 Fire

- · Please shut down the equipment or disconnect the main power switch when it is safe.
- The high temperature may distort or damage the battery pack, resulting in electrolyte overflow or toxic gas leakage. Do not go near the battery pack and wear protective equipment.
- · If the fire is small, use carbon dioxide or ABC dry powder extinguisher to extinguish the fire.
- If the fire is spreading, evacuate the building or equipment area immediately and call the fire department. Re-entry to burning buildings is prohibited.
- Do not touch or come into contact with high voltage components during fire fighting, due to the risk of electric shock.
- · After extinguishing the fire, do not use the equipment, please contact your installer.

### 6.2 Flood

- $\cdot$  Please shut down the equipment or disconnect the main power switch when it is safe.
- $\cdot$  If the battery module is submerged, do not touch it to avoid the danger of electric shock.
- · After the flood waters recede, do not use the equipment. Please contact your installer.

#### 6.3 Battery Malfunction

· When the battery module has abnormal odor, electrolyte leakage, or heat, do not touch it, and contact professional personnel immediately.

- · Professionals must wear protective equipment such as goggles, rubber gloves, gas masks, and protective clothing to protect themselves.
- The electrolyte is corrosive and contact may cause skin irritation or chemical burns. In case of accidental contact with the electrolyte, take the following measures immediately:
- $\cdot$  Inhalation: Evacuate the contaminated area, keep fresh air circulating and seek immediate medical help.
- Eye contact: Flush eyes with plenty of water for at least 15 minutes. Do not rub eyes. Seek medical help immediately.
- $\cdot$  Skin contact: Wash the contact area with plenty of soapy water and seek medical help immediately.
- Ingestion: Induce vomiting and seek medical help immediately.
- · Do not continue to use abnormal battery modules, please contact your installer.

#### 6.4 Battery Falling or Strong Impact

- · If there is an obvious odor, smoke, or fire, keep away from the equipment immediately and contact professional personnel.
- Do not use the battery module if it has been dropped or hit. Please contact your installer.

## In all cases, once the situation is stable, contact the Anker Customer Service.

## 7. Customer Service

Support@anker.com
 (UK) +44 (0) 1616 056 301
 (DE) +49 (800) 000 2522
 (AU) +61 1800 929 112
 (IT) +39 800 776 561
 10-Year Limited Warranty

Please visit <u>ankersolix.com/warranty</u> for full warranty details.

# 8. Product Information

## 8.1 Nameplates

#### A5102\_V1\_EN\_UM\_Web\_20240715



Anker SOLIX X1 Power Module DRM

DRM 0	√ DRM 1 √	DRM 2 🗸
DRM 3	🗸 🛛 DRM 4 🔍 🛛	DRM 5 🗸
DRM 6	√ DRM 7 √	DRM 8 🗸

# 8.2 Specifications

Specifications are subject to change without notice.

Product Name	Anker SOLIX X1 Power M	odule		
Model Name	X1-H3.68K-S	X1-H4.6K-S	X1–H5K–S	X1–H6K–S
PV INPUT				
MPPT Voltage Range	80 - 550 Vd.c.	80 – 550 Vd.c.	80 – 550 Vd.c.	80 – 550 Vd.c.
Max. Input Voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
Max. Input Current	16 / 16 Ad.c.	16 / 16 Ad.c.	16 / 16 Ad.c.	16 / 16 Ad.c.
lsc PV Array Short Circuit Current	20 / 20 Ad.c.	20 / 20 Ad.c.	20 / 20 Ad.c.	20 / 20 Ad.c.
Max. Inverter Backfeed Current to Array	0 Ad.c.	0 Ad.c.	0 Ad.c.	0 Ad.c.
BATTERY				
Battery Type	Li–ion	Li–ion	Li–ion	Li–ion
Charge Voltage Range	390 – 550 Vd.c.	390 – 550 Vd.c.	390 – 550 Vd.c.	390 - 550 Vd.c.
Discharge Voltage Range	370 – 500 Vd.c.	370 - 500 Vd.c.	370 – 500 Vd.c.	370 - 500 Vd.c.



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Rated Charge / Discharge Power	3.68 kW	4.6 kW	5 kW	6 kW
Rated Charge / Discharge Current	9.2 Ad.c.	11.5 Ad.c.	12.5 Ad.c.	15 Ad.c.
Max. Continue Charge Current	9.4 Ad.c.	11.7 Ad.c.	12.8 Ad.c.	15.3 Ad.c.
Max. Continue Discharge Current	9.9 Ad.c.	12.4 Ad.c.	15.1 Ad.c.	16.2 Ad.c.
AC GRID INPUT and OUT	PUT			
Rated Voltage	220 / 230 / 240 Va.c.			
Rated Frequency	50 / 60 Hz			
Rated Output Active Power	3.68 kW	4.6 kW	5 kW	6 kW
Rated Output Apparent Power	3680 VA	4600 VA	5000 VA	6000 VA
Max. Output Apparent Power	4000 VA	5000 VA	5500 VA	6600 VA
Max. Output Current	18.1 Aa.c.	22.7 Aa.c.	25 Aa.c.	30 Aa.c.
Max. Input Power / Current From Grid	7.2 kVA / 31.3 Aa.c.	10 kVA / 40 Aa.c.	10 kVA / 40 Aa.c.	10 kVA / 40 Aa.c.
Power Factor Range	0.8 ind – 0.8 cap			
Current (Inrush)	80 Aa.c. / 5 us			
Max. Output Fault Current	80 Aa.c.	80 Aa.c.	80 Aa.c.	80 Aa.c.
Max. Output Overcurrent Protection	50 Aa.c.	50 Aa.c.	50 Aa.c.	50 Aa.c.
AC BACKUP OUTPUT			•	
Rated / Max. Active Power	3.68 kW	4.6 kW	5 kW	6 kW
Max. Output Apparent Power	4 kW	5 kW	5.5 kW	6.6 kW
Max. Output Current	18.1 Aa.c.	22.7 Aa.c.	25 Aa.c.	30 Aa.c.
Output Voltage	220 / 230 / 240 Va.c.			
Output Frequency	50 / 60 Hz			
Power Factor Range	0.8 ind – 0.8 cap			
GENERAL INFORMATION	1			
Inverter Topology	Non-Isolated	Non-Isolated	Non-Isolated	Non-Isolated
Overvoltage Category	III[AC],II[PV,BAT]	III[AC],II[PV,BAT]	III[AC],II[PV,BAT]	III[AC],II[PV,BAT]
Operating Temperature Range	–25°C to 60°C	–25°C to 60°C	–25°C to 60°C	–25°C to 60°C
Storage Temperature Range	–40°C to 70°C	-40°C to 70°C	-40°C to 70°C	–40°C to 70°C
Relative Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%
Altitude	≤ 4000 m	≤ 4000 m	≤ 4000 m	≤ 4000 m
Ingress Protection	IP66	IP66	IP66	IP66
Protection Class	1	I	I	I
Active Anti–Islanding Method	Power Variation (method c)			

Note: When applying AS/NZS 4777.2:2020, the rated voltage is 230 Va.c., the rated frequency is 50 Hz, and the power factor range is 0.8 inductive (under–excited) to 0.8 capacitive (over–excited).

# 9. Safety Information

# 9.1 IMPORTANT SAFETY INSTRUCTIONS

# Symbols

Description

<u>î</u>	CAUTION	Caution

	Indicates a low-risk hazard. Failure to avoid this hazard could result in minor or moderate injury.
	Warning Indicates a hazard with a moderate level of risk. Failure to avoid this hazard could result in death or serious injurv.
<b>DANGER</b>	Danger Indicates a highly risky hazard. Failure to avoid this hazard could result in death or serious injury.
	Refer to Operating Instructions Indicates that users should refer to operating or installation instructions before proceeding.
	Risk of Electric Shock from Stored Energy Indicates discharge time is 2 minutes from de-energization.
	Risk of Electric Shock Indicates components that present risk of electrical shock.
	Caution, Hot Surface Indicates that equipment surfaces may be hot and pose a burn risk.
	PE Conductor Terminal Indicates a terminal that allows the electrical connection of conductors for earthing or grounding purposes.

#### General Information

SAVE THESE INSTRUCTIONS - This document contains important instructions that must be followed during installation, use, and maintenance.



Read instructions carefully before performing any operation on the equipment.

Do not make any changes or create settings that are not described in this document. If physical injury, loss of data, or damage is caused by failure to follow instructions, the warranty does not apply.

#### Personal Safety

WARNING To reduce the risk of burns, do not touch the equipment surfaces as they may be hot.

WARNING

Never touch the enclosure of operating equipment.

- Ensure that power is off during installation. Do not install or remove a cable with the power on.
- Non-standard and improper operations on the energized equipment may cause fire, electric shocks, or explosion, resulting in property damage, personal injury, or even death.
- Before operations, remove conductive objects such as watches, bracelets, bangles, rings, and necklaces to prevent electric shocks.
- During operations, use dedicated insulated tools to prevent electric shocks or short circuits.
- Do not make contact with other conductors, or indirect contact with power supply equipment through damp objects.
- Do not power on the equipment until it has been installed or confirmed by a professional.
- Only qualified professionals or trained personnel are allowed to install, operate, and maintain the equipment.
- If there is a probability of personal injury or equipment damage during operations on the equipment, immediately stop the operation, report the case to the supervisor, and take feasible protective measures.
- Do not touch the energized equipment, as the enclosure may be hot.

#### Electrical Safety

	Do not disconnect under load!
	Use conductors with insulation rated for at least 90°C / 194°F.
	Do not wire when energized.
	Risk of electric shock. Terminals on the line and load sides may be energized when circuit breakers are in the open position.
A DANGER	Risk of electric shock from stored energy. Start maintaining the equipment at least 2 minutes after the equipment disconnects from all external power supplies.
Defer	

- Before installation, ensure that the equipment is intact. Otherwise, electric shocks or fires may occur.
- Non-standard and improper operations may result in fire or electric shocks.
- Prevent foreign matter from entering the equipment during operations.
- Do not route cables behind the air intake and exhaust vents of the equipment.
- For the equipment that needs to be grounded, install the ground cables first when installing the equipment and remove the ground cables last when removing the equipment.
- Before installing or removing power cables, the equipment and its switches must be disconnected.
- Do not damage the grounding conductors.
- The equipment terminals are used for electrical connections only.

- Ensure that the power module is connected to external breakers for the AC output circuit and the battery circuit.
- Ensure that all electrical connections comply with local electrical standards.
- Obtain approval from the local electric utility company before using the equipment in grid-tied mode.
- Ensure that the cables you prepared meet local regulations.
- The maximum operating temperature for the included cables is 221°F / 105°C.
- Use dedicated insulated tools when performing high-voltage operations.
- Before making electrical connections, switch off the disconnector on the upstream device to cut off the power supply if people may come into contact with energized components.
- Before connecting a power cable, check that the label on the power cable is correct.
- If the equipment has multiple inputs, disconnect all the inputs before operating the equipment.

# Environmental Requirements

- Do not expose the equipment to flammable or explosive gas or smoke. Do not perform any operation on the equipment in such environments.
- Do not store any flammable or explosive materials near the equipment.
- Install the equipment in an area far away from liquids and in a well ventilated environment.
- To prevent fire due to high temperature, ensure that the ventilation vents or heat dissipation system are not blocked when the equipment is running.

#### Mechanical Safety

- Do not drill holes into the equipment.
- Wear goggles and protective gloves when drilling holes.
- When moving the equipment by hand, wear protective gloves to prevent injuries.
- Clean up any debris that may have accumulated within or around the equipment after drilling.
- Be cautious to avoid injury when moving heavy objects.

#### Commissioning

• When the equipment is powered on for the first time, ensure that professional personnel set parameters correctly. Incorrect settings may result in inconsistency with local certification and affect the normal operation of the equipment.

#### Maintenance and Replacement



- High voltage generated by the equipment during operation may cause an electric shock, which could result in death, serious injury, or serious property damage.
- Prior to maintenance, power off the equipment and strictly comply with the safety precautions in this document and relevant documents.
- After powering off the equipment, wait at least 6 minutes before disassembling any cables or components.
- Maintain the equipment with proper tools, testing equipment, and sufficient knowledge of this document.
- Turn off the equipment switches when maintaining the electric devices or power distribution devices connected to the equipment.
- Place temporary warning signs or erect fences to prevent unauthorized access to the maintenance site.
- If the equipment is faulty, contact your supplier.
- The equipment can be powered on only after all faults are rectified. Failing to do so may escalate faults or damage the equipment.

# 9.2 Notice

# Declaration of Conformity

Hereby, Anker Innovations Limited declares that this equipment is in compliance with Directives 2014/30/EU & 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address: https://support.anker.com/s/articleRecommend? otherType=Anker\_EN\_External\_Manual\_and\_Download&secondType=doc.

License Holder: Anker Innovations Limited

# UK PSTI Statement

Hereby, Anker Innovations Limited declares that this equipment is in compliance with the Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations. The full text of the Statement of Compliance is available at the following website:

### https://www.anker.com/uk/psti-related.

The following importer is the responsible party (contract for EU matters): Anker Innovations Deutschland GmbH I Georg–Muche–Strasse 3, 80807 Munich, Germany The following importer is the responsible party (contract for UK matters):

Anker Technology (UK) Limited I GNR8, 49 Clarendon Road, Watford, Hertfordshire, WD17 1HP, United Kingdom



Not permitted on aircraft.



This symbol means the product must not be discarded as household waste, and should be delivered to an appropriate collection facility for recycling. Proper disposal and recycling helps protect natural resources, human health, and the environment. For more information on the disposal and recycling of this product, contact your local municipality, disposal service, or the shop where you bought this product.

Anker Innovations Limited | Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong