

Power Module



Model	X1-H3.68K-S	X1-H4.6K-S	X1-H5K-S	X1-H6K-S
	Battery Input			
Battery Type	LFP			
Charge Voltage Range	390 - 550 VDC			
Discharge Voltage Range	370 - 500 VDC			
Battery Capacity	5 - 30 kWh			
	PV Input			
Max.Input Power	7.36 kW	9.2 kW	10 kW	12 kW
Max.Input Voltage	600 VDC			
MPPT Voltage Range	80 - 550 VDC			
Start-Up Voltage	75 VDC			
Rated Input Voltage	360 VDC			
Max.Input Current	16 / 16 ADC			
Isc PV Array Short Circuit Current	20 / 20 ADC			
Number Of MPPTs	2			
Number Of Strings per MPPT	1			
	AC Output (On-Grid)			
Rated Output Power	3.68 kW	4.6 kW	5 kW	6 kW
Max.Output Apparent Power	4 kVA	5 kVA	5.5 kVA	6.6 kVA
Max.Units In Parallel	3			
Rated Output Voltage	220/230/240 V			
Rated Frequency	50/60 Hz			
Power Factor	0.8 ind - 0.8 cap			
THDI (@Rated Power)	< 3%			
	AC Output (Off-Grid)			
Rated Output Power	3.68 kW	4.6 kW	5 kW	6 kW
Max.Output Apparent Power	4 kVA	5 kVA	5.5 kVA	6.6 kVA
Peak Output Apparent Power (Duration)	7.2 kVA (10s)	10 kVA (10s)	10 kVA (10s)	10 kVA (10s)
Max.Units In Parallel	3			
Rated Output Voltage	220 / 230 / 240 VAC			
Rated Frequency	50/60 Hz			
THDU (@Linear Load)	< 2%			
Switch Time	< 10 ms			
	AC Input			
Max.Input Apparent Power	7.2 kVA	10 kVA	10 kVA	10 kVA
	Protection			
Anti-Isolation Protection	Yes			
Over Current Protection	Yes			
AC Short-Circuit Protection	Yes			
Over Voltage Protection	Yes			
DC Surge Prevention	Type II			
AC Surge Prevention	Type III			
Over Temperature Protection	Yes			
PV Input Reverse Polarity Protection	Yes			
Battery Input Reverse Polarity Protection	Yes			
Insulation Impedance Detection	Yes			
Residual Current Detection	Yes			
	Efficiency			
Max.Efficiency	97.4%	97.5%	97.4%	97.6%
European Efficiency	96.5%	96.7%	96.7%	97.1%
	Connectivity			
Internet Connectivity	Wi-Fi, Bluetooth, Ethernet, 4G (Optional)			
	Other			
Weight	19 kg			
W × H × D Dimensions (mm)	670 × 335 × 150			
Noise	≤ 30dB*			
Mounting Options	Ground or Wall**			
Operation Temperature	-25 ° C to 60 ° C***			
Relative Humidity	0 to 100%			
Max Operating Altitude	Up to 4,000 m, Power Derates from 2,000 m			
Ingress Protection Rating	IP66			
Warranty	10 Years Limited****			
	Compliance Information (More information available upon request)			
Grid Connection Certifications	VDE-AR-N 4105, DIN VDE V 0124-100 (VDE V 0124-100), CEI 0-21, G99/1-9, C10/C11, NTS 2021 V2.1, UNE 2170021, UNE 217002, AS/NZS 4777.2			
Safety	EN IEC 62109-1,EN IEC 62109-2, AS 60947.3			
EMC	EN IEC 61000-6-1, EN IEC 61000-6-3			

*Tested in Anker laboratory at 1 m distance and typical scenarios.
**Additional rack required for wall mounting.
***Power derates once ambient temperature exceeds 45°C.
****Refer to Anker SOLIX X1 Home Energy Storage System [Warranty Policy] for details.



Model	X1-B5-H
	Performance Specifications
Battery Energy*	5 kWh
Battery Type	Li-ion (LFP)
Battery Voltage Range	350 - 550 VDC
Maximum Charge / Discharge Power	3 kW
Maximum Charge / Discharge Current	7.6 A
	Other
W × H × D Dimensions (mm)	670 × 360 × 150
Weight	51 kg
Ingress Protection Rating	IP66
Operating Temperature	-20 ° C to 55 ° C
Maximum Operating Altitude	Up to 4,000 m, Power Derates from 2,000 m
Warranty	10 Years**
	Compliance Information
Certifications	IEC 62619, IEC 62040-1, VDE-AR-E 2510-50, UN38.3

*The initial capacity (design capacity) of an expansion battery is 5 kWh. The actual capacity may vary depending on environmental conditions, such as temperature, transportation methods, and storage conditions.

**Refer to Anker SOLIX X1 Home Energy Storage System [Warranty Policy] for details.



Battery Module	× 1	× 2	× 3	× 4**	× 5**	× 6**
Energy Capacity	5 kWh	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh
Weight*	73.5 kg	124.5 kg	175.5 kg	232 kg	283 kg	334 kg
W × H × D Dimensions (mm)**	670 × 765 × 150	670 × 1,125 × 150	670 × 1,485 × 150	670 × 1,485 × 150	670 × 1,485 × 150	670 × 1,485 × 150
				670 × 482 × 150	670 × 842 × 150	670 × 1,202 × 150

*Includes floor mounting base and top cover.

**Two column installation.

Anker SOLIX X1 Home Energy Storage System Warranty Policy - EU

Anker SOLIX provides a straightforward warranty that is processed in the most hassle-free way possible. Please refer to the chart below, as warranty periods differ according to models.

Limited Warranty

All quality-related defects on items sold directly by Anker or Anker's authorized resellers are covered by an extensive warranty. The warranty begins on the date of production installation.

This warranty is supplementary to any statutory warranties provided by law.

Note: Warranty periods listed below are only valid for purchases from our official website or partners listed on our official website. If you purchased from a local store, reseller, or distributor not listed on our official website, please contact support@ankersolix.com with your order receipt for further confirmation.

Warranty Period

Name	SKU	Pictures for Illustration	Warranty Period
Anker SOLIX X1 Power Module			10 years
X1-H3.68K-S	A5102GZ1		
X1-H4.6K-S	A5102GZ2		
X1-H5K-S	A5102GZ3		
X1-H6K-S	A5102GZ4		
X1-H5K-T	A5103GZ1		
X1-H8K-T	A5103GZ2		
X1-H10K-T	A5103GZ3		
X1-H12K-T	A5103GZ4		
X1-H5K-T BE	A5102GZ5		
X1-H10K-T BE	A5103GZ5		

Anker SOLIX X1 Battery Module X1-B5-H	A5220GZ1		10 years
WLAN Dongle DG-WF-H	A5461G11		5 years
Mobile Dongle VCB-5106L8-WB-AK	A5460G11		5 years (Including data plan)
Power Sensor - 1P DDSU666	A5420G22		24 months
Power Sensor - 3P DTSU666	A5430G21 A5430G22		24 months

Warranty Specification

Product	PN	Warranty Period	Throughput During Warranty Period	Warranty Extension
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Anker SOLIX X1 Battery Module	A5220	10 Years	13.17MWh 80%EOL	Not Applicable
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Notes

- Anker's limited warranty is restricted to the country of purchase. The limited warranty is void on items taken outside the country they were originally bought in or shipped directly to from an authorized seller. Warranties on products are void after having been fully refunded. Warranties on all replacements follow the same warranty timeframe as the original defective item.
- The warranty policy for the battery pack ends when either the end of the warranty period has been reached or the throughput has been completed, contingent upon the remaining capacity EOL meeting the specified requirements, with the earliest condition taking precedence. The warranty for the DC-DC power module is solely time-bound and is independent of the battery's performance. It is important to note that the warranties for the battery pack and power module are provided separately and are not interconnected.
- The operation and service life of the battery are related to the working temperature, humidity, and altitude. The recommended working temperature for the battery is 15 to 30°C (For more details about product working environment requirements, please refer to the specification sheet).
- When the SOC of the battery decreases to 0%, charge the battery within seven days. Any permanent battery damage due to the customer's failure to charge the battery properly is not covered under warranty.

How To Process

If, during the applicable warranty period, the buyer discovers any defect in materials and seeks to activate the limited warranty, then the buyer shall, promptly after such discovery, report the defect to Anker SOLIX by sending an email to support@ankersolix.com (a complete list of all contact methods available can be found on the Anker SOLIX website's [Contact Us](#) page) with the following information: (i) a short description of the defect, (ii) the product's serial number, and (iii) a scanned copy of the purchase receipt or warranty certificate of the applicable product.

Upon the buyer's notification, Anker SOLIX shall provide problem analysis and troubleshooting when possible and, if troubleshooting did not resolve the issue or is unavailable under the limited warranty, continue with verification of the

warranty. The product's serial number must be legible and properly attached to the product in order to be eligible for warranty coverage. If Anker SOLIX determines that the reported defect is not eligible for coverage under the limited warranty, Anker SOLIX will notify the buyer accordingly and will explain the reason why such coverage is not available. If Anker SOLIX determines that the reported defect is eligible for coverage under the limited warranty, Anker SOLIX will notify the buyer accordingly, and Anker SOLIX may, in its sole discretion, take any of the following actions:

Provide the buyer with replacement parts or replacement units for the product; Anker SOLIX will not elect to issue a refund unless (1) Anker SOLIX is unable to provide a replacement and repair is not commercially practicable or cannot be timely made, or (2) the buyer is willing to accept such a refund. In the event of a defect, to the extent permitted by law, these are the buyer's sole and exclusive remedies.

Anker SOLIX will determine whether the product should be returned to Anker SOLIX and, if Anker SOLIX is so inclined, if the Return Merchandise Authorization ("RMA") Procedure will be invoked. Anker SOLIX reserves the right to make the decision on whether to use new or refurbished parts for warranty repairs. These parts, whether new or refurbished, will be at least functionally equivalent to the original part in question. The original Spare part model, if no longer available, may be replaced with a similar Spare part model. The replacement Spare part provided by Anker SOLIX will be functionally equivalent to the customer's defective product in terms of features, functions, and compatibility. The software version shall be by default. In no event shall Anker SOLIX refund the Customer in cash or in kind if the Customer rejects to accept replacement with a similar spare part model. The warranty period of the replacement product shall follow the remainder of the original product warranty period.

When the RMA Procedure is invoked by Anker SOLIX, Anker SOLIX will instruct the buyer how to package and ship the product or part(s) to the designated location and will deliver the repaired or replaced product or part(s) to the buyer in the buyer's original country. If the defective product or part is not received by Anker SOLIX within 60 days of issuance of the RMA, Anker SOLIX will invoice the customer, and the customer will pay, the then-current list price for such

new product or part. The returned defective product must not have been disassembled or modified without the prior written authorization of Anker.

Warranty Exclusions

The limited warranty does not include defects in appearance, technology, or design, or defects that do not materially affect energy production or reduce the

form, fit, or function of the covered product, or any defects or parts that need to be replaced due to ordinary wear and tear, corrosion, rust, or stains on the shell or paint of the covered product.

The limited warranty does not include:

- Costs related to dismantling, installation, or troubleshooting; and software programs installed in the warranty product, as well as the recovery and reinstallation of such software programs and data; workmanship-related issues, or installation that was not performed by a certified installer.
- Costs related to the original buyer refusing to install firmware updates provided by Anker SOLIX.
- Re-installing the device in a new place.

This limited warranty will not apply if (a) the buyer is in default under the General Terms and Conditions or other agreements governing the purchase of the product, or (b) the product or any part thereof is:

- a. damaged as a result of misuse, abuse, accident, negligence, or failure to maintain the product;
- b. damaged as a result of modifications, alterations, or attachments thereto which were not pre-authorized in writing by Anker SOLIX;
- c. damaged due to the failure to observe the applicable safety regulations governing the proper use of the product;
- d. damaged by using third-party components not provided by Anker SOLIX;
- e. installed or operated not in strict conformance with the Documentation, including without, use in inappropriate environments, or use in violation of the manual and user manual or applicable laws or regulations (for example, the product is exposed to temperatures above 45°C or below -20°C after installation), or not using the product for a time of more than 30 days, or not installing the product after receiving the product from Anker SOLIX;
- f. not ensured sufficient ventilation for the product as described in Anker SOLIX X1 installation guide;
- g. opened, modified, or disassembled in any way without Anker SOLIX's prior written consent;
- h. used in combination with equipment, items, or materials not permitted by the documentation or in violation of local codes and standards;
- i. damaged by software, interfacing, parts, supplies, or other products not supplied by Anker SOLIX;

- j. damaged as a result of improper site preparation or maintenance or improper installation;
- k. damaged or rendered non-functional as a result of natural disasters, or other abnormal environmental conditions like war or car accidents, action of third parties, direct exposure to seawater, or other events beyond Anker SOLIX's reasonable control or not arising from normal operating conditions;
- l. damaged during or in connection with shipping or transport to or from the buyer where the buyer arranged such shipping or transport;

DISCLAIMERS

THE LIMITED WARRANTIES SET FORTH HEREIN ARE IN LIEU OF AND EXCLUDE ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR APPLICATION, AND ALL OTHER OBLIGATIONS ON THE PART OF ANKER/ANKER SOLIX UNLESS SUCH OTHER WARRANTIES AND OBLIGATIONS ARE AGREED TO IN WRITING BY ANKER/ANKER SOLIX. SOME JURISDICTIONS LIMIT OR DO NOT PERMIT DISCLAIMERS OF WARRANTY, SO THIS PROVISION MAY NOT APPLY TO THE BUYER IN SUCH JURISDICTIONS.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ANKER'S/ANKER SOLIX'S AGGREGATE LIABILITY, IF ANY, IN DAMAGES OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID TO ANKER/ANKER SOLIX BY THE BUYER FOR THE PRODUCT IN THE CASE OF A WARRANTY CLAIM.

LIMITATION OF LIABILITY

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ANKER/ANKER SOLIX HEREBY DISCLAIMS AND SHALL HAVE NO RESPONSIBILITY OR LIABILITY WHATSOEVER FOR DAMAGE OR INJURY TO PERSONS OR PROPERTY OR FOR OTHER LOSS OR INJURY RESULTING FROM ANY CAUSE WHATSOEVER ARISING OUT OF OR RELATED TO ANY OF ITS PRODUCTS OR THEIR USE. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, UNDER NO CIRCUMSTANCES SHALL ANKER/ANKER SOLIX BE LIABLE TO THE BUYER, OR TO ANY THIRD PARTY CLAIMING THROUGH OR UNDER THE BUYER, FOR ANY LOST PROFITS, LOSS OF USE, OR EQUIPMENT DOWNTIME, OR FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY

KIND, HOWSOEVER ARISING, RELATED TO THE PRODUCTS, EVEN IF ANKER/ANKER SOLIX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

ANKER SOLIX X1 HOME ENERGY STORAGE SYSTEM IS NOT INTENDED FOR USE AS A PRIMARY

OR BACKUP POWER SOURCE FOR LIFE SUPPORT SYSTEMS, MEDICAL EQUIPMENT, OR

ANY OTHER USE WHERE THE ANKER SOLIX X1 HOME ENERGY STORAGE SYSTEM'S FAILURE COULD LEAD TO INJURY TO PERSONS OR LOSS OF LIFE OR CATASTROPHIC PROPERTY DAMAGE. ANKER SOLIX DISCLAIMS ANY AND ALL LIABILITY ARISING OUT OF ANY SUCH USE OF THE ANKER SOLIX X1. ADDITIONALLY, ANKER SOLIX RESERVES THE RIGHT TO REFUSE TO SERVICE PRODUCTS USED FOR THESE PURPOSES AND DISCLAIMS ANY AND ALL LIABILITY ARISING OUT OF ANKER'S SERVICE OR REFUSAL TO SERVICE THE PRODUCTS IN SUCH CIRCUMSTANCES.

CLAIMS BY BUYER THAT GO BEYOND THE WARRANTY TERMS SET OUT HEREIN, INCLUDING CLAIMS FOR COMPENSATION OR DAMAGES, ARE NOT COVERED BY THE LIMITED WARRANTY, INsofar AS ANKER SOLIX IS NOT SUBJECT TO STATUTORY LIABILITY. EVENTUAL CLAIMS IN ACCORDANCE WITH THE LAW ON PRODUCT LIABILITY REMAIN UNAFFECTED. COVERAGE UNDER THE LIMITED WARRANTY IS SUBJECT TO BUYER COMPLYING WITH THE FOREGOING NOTIFICATION REQUIREMENTS AND COOPERATING WITH ANKER SOLIX'S DIRECTIONS. ANKER SOLIX'S SOLE OBLIGATION AND BUYER'S EXCLUSIVE REMEDY FOR ANY DEFECT WARRANTED HEREUNDER IS LIMITED TO THOSE ACTIONS EXPRESSLY STATED ABOVE. SUCH ACTIONS ARE FINAL AND DO NOT GRANT ANY FURTHER RIGHTS, IN PARTICULAR WITH RESPECT TO ANY CLAIMS FOR COMPENSATION. UNLESS OTHERWISE SPECIFIED IN AN EXECUTED AGREEMENT WITH ANKER SOLIX, THE LIMITED WARRANTY AND RELATED PROVISIONS SET OUT HEREIN ARE SUBJECT TO ANKER SOLIX'S GENERAL TERMS AND CONDITIONS, INCLUDING, WITHOUT LIMITATION, THE PROVISIONS THEREOF, WHICH RELATE TO THE DISCLAIMER OF WARRANTIES, LIMITATION OF LIABILITY, AND GOVERNING LAW AND JURISDICTION.

THE BUYER ACKNOWLEDGES THAT THE FOREGOING LIMITATIONS OF LIABILITY ARE AN ESSENTIAL ELEMENT OF THE AGREEMENT BETWEEN THE PARTIES AND THAT IN THE ABSENCE OF SUCH LIMITATIONS THE PURCHASE PRICE OF THE PRODUCTS WOULD BE SUBSTANTIALLY DIFFERENT. SOME JURISDICTIONS LIMIT OR DO NOT PERMIT DISCLAIMERS OF LIABILITY, SO THIS PROVISION MAY NOT APPLY TO THE BUYER IN SUCH JURISDICTIONS. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON THE EXCLUSION OF

DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO THE BUYER IN SUCH JURISDICTIONS.

YOU MAY HAVE SPECIFIC LEGAL RIGHTS OUTSIDE THIS WARRANTY, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE OR COUNTRY TO COUNTRY. THIS LIMITED WARRANTY DOES NOT AFFECT ANY ADDITIONAL RIGHTS YOU HAVE UNDER LAWS IN YOUR JURISDICTION GOVERNING THE SALE OF CONSUMER GOODS. SOME STATES OR COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE LIMITATIONS OR EXCLUSIONS IN THIS LIMITED WARRANTY STATEMENT MAY NOT APPLY TO YOU IN THOSE AREAS.

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