

# Anker SOLIX X1

Hybrid Three-Phase Energy Storage System

Power for the Extreme



## | System Parameters



Battery Module	x1	x2	x3	x4 <sup>2</sup>	x5 <sup>2</sup>	x6 <sup>2</sup>
Energy Capacity	5kWh	10kWh	15kWh	20kWh	25kWh	30kWh
Weight <sup>1</sup>	84.5 kg	135.5 kg	186.5 kg	243 kg	294 kg	345 kg
Dimensions (W×H×D) <sup>2</sup>	670 × 880 × 150 mm	670 × 1,240 × 150 mm	670 × 1,600 × 150 mm	670 × 1,600 × 150 mm 670 × 482 × 150 mm	670 × 1,600 × 150 mm 670 × 842 × 150 mm	670 × 1,600 × 150 mm 670 × 1,202 × 150 mm

## | Battery Module

Model	X1-B5-H
<b>Performance Specifications</b>	
Battery Capacity <sup>3</sup>	5kWh
Battery Type	LFP
Battery Voltage Range	350-550VDC
Maximum Charge / Discharge Power	3kW
Maximum Charge / Discharge Current	7.6A
<b>Other Specifications</b>	
Dimensions (W×H×D) <sup>2</sup>	670 × 360 × 150 mm
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 <sup>4</sup>
<b>Compliance Information</b>	
Certifications	IEC 62619, IEC 62040-1, VDE-AR-E 2510-50, UN38.3

<sup>1</sup>Includes floor mounting base and top cover.

<sup>2</sup>Two column installation.

<sup>3</sup>The initial capacity (design capacity) of an expansion battery is 5kWh. The actual capacity may vary depending on environmental conditions, such as temperature, transportation methods, and storage conditions.

<sup>4</sup>Refer to Anker SOLIX X1 Home Energy Storage System [Warranty Policy] for details.





# I Power Module

Model	X1-H5K-T	X1-H8K-T	X1-H10K-T	X1-H12K-T
<b>Battery Input and Output</b>				
Battery Type	LFP			
Voltage Range	350-450VDC			
Battery Capacity	5-30kWh			
<b>PV Input</b>				
Max Input Power	10kW	16kW	20kW	24kW <sup>1</sup>
Max Input Voltage	1,000VDC			
MPPT Voltage Range	140-950VDC			
Start-Up Voltage	160VDC			
Rated Input Voltage	600VDC			
Max Input Current	16/16ADC			
Isc PV Array Short Circuit Current	20/20ADC			
Number of MPPTs	2			
Number of Strings per MPPT	1			
<b>AC Output (On-Grid)</b>				
Rated Output Power	5kW	8kW	10kW	12kW
Max Output Apparent Power	5.5kVA	8.8kVA	11kVA	13.2kVA
Max Units In Parallel	6			
Rated Output Voltage	220/380VAC, 230/400VAC, 3L+N+PE			
Rated Frequency	50/60Hz			
Power Factor	0.8 ind-0.8cap			
THDI (@Rated Power)	< 2%			
<b>AC Output (Off-Grid)</b>				
Rated Output Power	5kW	8kW	10kW	12kW
Max Output Apparent Power	5.25kVA	8.4kVA	10.5kVA	12.6kVA
Peak Output Apparent Power (Duration)	10kVA (10 s)	16kVA (10 s)	20kVA (10s)	20kVA (10 s)
Max Units In Parallel	6 <sup>2</sup>			
Rated Output Voltage	220/380VAC, 230/400VAC, 3L+N+PE			
Rated Frequency	50/60Hz			
THDU (@Linear Load)	< 2%			
Switch Time	< 10 ms (Typical)			
<b>AC Input</b>				
Max Input Apparent Power	20kVA			
<b>Protection</b>				
Anti-Isolation Protection	Yes			
Overcurrent Protection	Yes			
AC Short-Circuit Protection	Yes			
Overvoltage Protection	Yes			
DC Surge Protection	Type II			
AC Surge Protection	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			
<b>Efficiency</b>				
Max Efficiency	97.9%	98.0%	98.1%	98.1%
European Efficiency	96.0%	97.1%	97.4%	97.5%
<b>Connectivity</b>				
Internet Connectivity	Wi-Fi, Bluetooth, Ethernet, 4G (Optional)			
<b>Other Specifications</b>				
Weight	30 kg			
Dimensions (W×H×D)	670 × 450 × 150 mm			
Noise	≤ 30dB <sup>3</sup>			
Mounting Options	Ground or Wall <sup>4</sup>			
Operation Temperature	-25°C to 60°C <sup>5</sup>			
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 <sup>6</sup>			
<b>Compliance Information (More information available upon request)</b>				
Grid Connection Certifications	VDE-AR-N 4105, DIN VDE V 0124-100 (VDE V 0124-100), Austria OVE Directive R25 deviation based on VDE 4105, EN 50549-1 / 2, EIFS 2018:2, RfG, NC RfG, PTPIREE, C10/11, NTS 2021 V2.1, UNE 217002.1, UNE 217002, PPDS: 2022, AS/NZS 4777.2, G99/1-9, G99/NI, DTIS-230206-BRL, NA/EEA-NE7 – CH 2020			
Safety	EN IEC 62109-1, EN IEC 62109-2, AS60947.3			
EMC	EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN 62920:2017/A1:2021			

<sup>1</sup>Power derates once ambient temperature exceeds 35°C.

<sup>2</sup>The hybrid three-phase models will support 6 parallel system connections and the update is expected in Q4 2025. Off-grid, the three-phase systems only support dual-system output power ratings.

<sup>3</sup>Tested in Anker laboratory at 1 m distance and typical scenarios.

<sup>4</sup>Additional rack required for wall mounting.

<sup>5</sup>Power derates once ambient temperature exceeds 45°C.

<sup>6</sup>Refer to Anker SOLIX X1 Home Energy Storage System [Warranty Policy] for details.