

Anker SOLIX X1

Hybrid Three-Phase Energy Storage System

Power for the Extreme



| System Parameters



Battery Module	x1	x2	x3	x4 ²	x5 ²	x6 ²
Energy Capacity	5kWh	10kWh	15kWh	20kWh	25kWh	30kWh
Weight ¹	84.5 kg	135.5 kg	186.5 kg	243 kg	294 kg	345 kg
Dimensions (W×H×D) ²	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
Performance Specifications	
Battery Capacity ³	5kWh
Battery Type	LFP
Battery Voltage Range	350-550VDC
Maximum Charge / Discharge Power	3kW
Maximum Charge / Discharge Current	7.6A
Other Specifications	
Dimensions (W×H×D) ²	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 ⁴
Compliance Information	
Certifications	IEC 62619, IEC 62040-1, VDE-AR-E 2510-50, UN38.3

¹Includes floor mounting base and top cover.

²Two column installation.

³The initial 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.

⁴Refer to Anker SOLIX X1 Home Energy Storage System Warranty Policy for details.



| Power Module

Model	X1-H5K-T		X1-H8K-T		X1-H10K-T		X1-H12K-T	
	Battery Input and Output							
Battery Type	LFP							
Voltage Range	350-450VDC							
Battery Capacity	5-30kWh							
	PV Input							
Max Input Power	10kW	16kW		20kW		24kW ¹		
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							
	AC Output (On-Grid)							
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%							
	AC Output (Off-Grid)							
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 ²							
Rated Output Voltage	220/380VAC, 230/400VAC, 3L+N+PE							
Rated Frequency	50/60Hz							
THDU (@Linear Load)	< 2%							
Switch Time	< 10 ms (Typical)							
	AC Input							
Max Input Apparent Power	20kVA							
	Protection							
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							
	Efficiency							
Max Efficiency	97.9%	98.0%		98.1%		98.1%		
European Efficiency	96.0%	97.1%		97.4%		97.5%		
	Connectivity							
Internet Connectivity	Wi-Fi, Bluetooth, Ethernet, 4G (Optional)							
Interface	DI/DO, DRM							
	Other Specifications							
Weight	30 kg							
Dimensions (W×H×D)	670 × 450 × 150 mm							
Noise	≤ 30 dB ³							
Mounting Options	Ground or Wall ⁴							
Operation Temperature	-25°C to 60°C ⁵							
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 ⁶							
	Compliance Information (More information available upon request)							
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							

¹Power derates once ambient temperature exceeds 35°C.

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

³Tested in Anker laboratory at 1 m distance and typical scenarios.

⁴Additional rack required for wall mounting.

⁵Power derates once ambient temperature exceeds 45°C.

⁶Refer to Anker SOLIX X1 Home Energy Storage System Warranty Policy for details.