ANKER SOLIX

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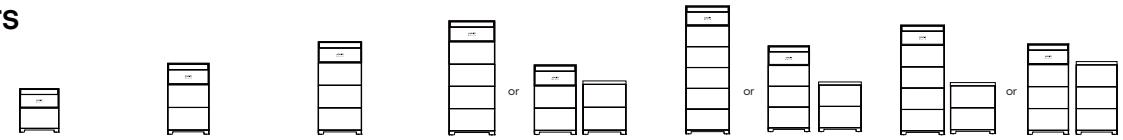
Anker SOLIX X1

Hybrid Three-Phase Energy Storage System

Power for the Extreme

Images are for demonstration purposes only.

System Parameters



Battery Module	×1	×2	×3	×4[2]	×5[2]	×6[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 × 1,960 × 150 mm (Setup 1) 670 × 1,240 × 150 670 × 842 × 150 mm (Setup 2)	670 × 2,320 × 150 mm (Setup 1) 670 × 1,600 × 150 mm 670 × 842 × 150 mm (Setup 2)	670 × 1,845 × 150 mm 670 × 842 × 150 mm (Setup 1) 670 × 1,600 × 150 mm 670 × 1,202 × 150 mm (Setup 2)

Battery Module

Model	X1-B5-H
	Performance Specifications
Battery Capacity[3]	5kWh
Battery Type	Li-ion (LFP)
Battery Voltage Range	350-550VDC
Maximum Charge / Discharge Power	3kW
Maximum Charge / Discharge Current	7.6A
	Other Specifications
Dimensions (W×H×D)	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

[1]Includes floor mounting base and top cover.
[2]Two column installation. For floor mounting, stack no more than five battery modules plus one power module in one column; for wall mounting, stack no more than four battery modules plus one power module in one column.
[3]The 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.

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Power Module

Model	X1-H5K-T	X1-H8K-T	X1-H10K-T	X1-H12K-T
	Battery			
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	0.8ind-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]			
Active Anti-Islanding Method	Frequency Shift			
	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 2170021, 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			

[1]Power derates once the ambient temperature exceeds 35°C. Additionally, 24kW reflects the maximum power capability of the PV inverter interface. Actual power varies depending on the PV panel open circuit voltage and power rating.
[2]The hybrid three-phase models will support 6 parallel system connections. Off-grid, the systems only support single-system output power ratings. Please visit Anker SOLIX.com for the most up-to-date information on product availability and specifications.
[3]Tested in the Anker laboratory at a 1 m distance and with typical scenarios.
[4]Additional rack required for wall mounting.
[5]Power derates once ambient temperature exceeds 45°C.
[6]Refer to Anker SOLIX X1 Home Energy Storage System Warranty Policy for details.