Anker SOLIX X1

Hybrid Three-Phase Energy Storage System

Power Module






Model	X1-H5K-T	X1-H8K-T	X1-H10K-T	X1-H12K-T
	Battery Input			
Battery Type	LFP			
Voltage Range	350 - 450 VDC			
Battery Capacity	5 - 30kWh			
	PV Input			
Max.Input Power	10kW	16kW	20kW	24kW[1]
Max.Input Voltage	1000VDC			
MPPT Voltage Range	140 - 1000VDC			
Start-Up Voltage	160 VDC			
MPPT Voltage Range	140 - 950VDC			
Rated Input Voltage	600 VDC			
Max.Input Current	16 / 16 ADC			
Isc PV Array Short Circuit Current	20 / 20 ADC			
Number Of MPPTs	2			
Number Of String per MPPT	1			
	AC Output (On-Grid)			
Rated Output Power	5 kW	8 kW	10 kW	12 kW
Rated Output Current	7.2A	11.6A	14.5A	17.4A
Max.Output Apparent Power	5.5 kVA	8.8 kVA	11 kVA	13.2 kVA
Max. Output Current	8.4A	13.3A	16.7A	20A
Max.Units In Parallel[2]	6			
Rated Output Voltage	220/380 VAC, 230/400 VAC, 3L+N+PE			
Rated Frequency	50/60 Hz			
Power Factor	0.8 ind - 0.8 cap			
THDI (@Rated Power)	< 2%			
	AC Output (Off-Grid)			
Rated Output Power	5 kW	8 kW	10kW	12kW
Rated Output Current	7.2A	11.6A	14.5A	17.4A
Max.Output Apparent Power	5.25 kVA	8.4 kVA	10.5kVA	12.6 kVA
Max Output Current	7.2A	11.6A	14.5A	17.4A
Peak Output Apparent Power (Duration)	10 kVA (10s)	16 kVA (10s)	20 kVA (10s)	20 kVA (10s)
Max.Units In Parallel[2]	1			
Rated Output Voltage	220/380 VAC, 230/400 VAC, 3L+N+PE			
Rated Frequency	50/60 Hz			
THDU (@Linear Load)	< 2%			
Switch Time	< 10 ms (Typical)			
	AC Input			
Max.Input Apparent Power	10kVA	16kVA	20kVA	20kVA
Max Input Current	15.2A	24.3A	30.3A	30.3A
	Protection			
Anti-Isolation Protection	Yes			
Over Current Protection	Yes			
AC Short-Circuit Protection	Yes			
Over Voltage 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%	98.0%	98.0%
European Efficiency	96.0%	97.1%	97.4%	97.5%
	Connectivity			
Internet Connectivity	Wi-Fi, Bluetooth, Ethernet, 4G (Optional)			
	Other			
Weight	30 kg			
W × H × D Dimensions	670 × 450 × 150 mm			
Noise	≤ 30 dB[3]			
Mounting Options	Ground or Wall[4]			
Operation Temperature	-25 ° C to 60℃[5]			
Relative Humidity	0 to 100%			
Max Operating Altitude	Up to 4,000 m, Power Derates from 2,000 m			
Assembly Ingress 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 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 ambient temperature exceeds 35 ° C. This value 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 Parallel connections of systems are planned for future release. Please refer to AnkerSOLIX.com for availability.
3 Tested in Anker laboratory at 1 m distance and under typical scenarios.
4 Additional rack required for wall mounting.
5 Power derates once ambient temperature exceeds 45℃.
6 Refer to Anker SOLIX X1 Home Energy Storage System Warranty Policy for details.

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Battery Module



Model	X1-B5-H
	Performance Specifications
Battery Energy[1]	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[2]
	Compliance Information
Certifications	IEC 62619, IEC 62040-1, VDE-AR-E 2510-50, UN38.3

1 The maximum capacity of an expansion battery is 5kWh. The actual capacity may vary depending on environmental conditions, such as temperature, transportation methods, and storage conditions.
2 Refer to Anker SOLIX X1 Home Energy Storage System Warranty Policy for details.

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System Parameters



Battery Module	× 1	× 2	× 3	× 4[2]	× 5[2]	× 6[2]
Energy Capacity	5 kWh	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh
Weight*	84.5 kg	135.5 kg	186.5 kg	243 kg	294 kg	334 kg
W × H × D Dimensions (mm)[2]	670 × 880 × 150	670 × 1,240 × 150	670 × 1,600 × 150	670 × 1,600 × 150 670 × 482 × 150	670 × 1,600 × 150 670 × 842 × 150	670 × 1,600 × 150 670 × 1,202 × 150

1 Includes floor mounting base and top cover.
2 Two column installation.

The product specifications and details contained in this brochure are based on preliminary information and are subject to change without notice.
The actual product features and specifications may vary upon its official release.