

Anker SOLIX X1

Hybrid Single-Phase Energy Storage System

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	100 VDC			
Rated Input Voltage	360 VDC			
Max PV Input Current	16 / 16 ADC			
1sc PV Array Short Circuit Current	20 / 20 A			
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
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 K VA (10s)	10 KVA (10s)
Max Units In Parallel	3			
Rated Output Voltage	220/230/240 V			
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 II			
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)
Interface	DI/DO, DRM
	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, G99/NI, C10/C11, NTS 2021 V2.1, UNE 2170021, UNE 217002, RD 647, AS/NZS 4777.2, EN 50549-1, EN50549-10, Order no. 208, DTIS-230206-BRL
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 voltage.

**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.

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Model	X1-B5-H
	Performance Specifications
Battery Energy*	5 kWh
Battery Type	Li-ion (LFP)
Battery Voltage Range	350 - 550 Vd.c.
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.

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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 × 482 × 150	670 × 1,485 × 150 670 × 842 × 150	670 × 1,485 × 150 670 × 1,202 × 150

*Includes floor mounting base and top cover.

**Two column installation.

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