

Power Module



Model	X1-H5K-T	X1-H8K-T	X1-H10K-T	X1-H12K-T
	Battery Input & Output			
Battery Type	LFP			
Voltage Range	350 - 450 VDC			
Battery Capacity	5 kWh - 30 kWh			
	PV Input			
Max.Input Power	10 kW	16 kW	20 kW	24 kW*
Max.Input Voltage	1000 VDC			
MPPT Voltage Range	140 - 950 VDC			
Start-Up Voltage	160 VDC			
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
Max.Output Apparent Power	5.5 kVA	8.8 kVA	11 kVA	13.2 kVA
Max.Units In Parallel	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
Max.Output Apparent Power	5.25 kVA	8.4 kVA	10.5kVA	12.6 kVA
Peak Output Apparent Power (Duration)	10 kVA (10s)	16 kVA (10s)	20 kVA (10s)	20 kVA (10s)
Max.Units In Parallel	6			
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	20kVA			
	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%	98.1%	98.1%
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 (mm)	670 × 450 × 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			
Assembly Ingress Rating	IP66			
Warranty	10 Years Limited*****			
Active Anti-islanding Method	Shifting the frequency of the inverter away from nominal conditicons in the absence of a reference frequency (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			

*Power derates once ambient temperature exceeds 35 ° C.

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

***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.

**Refer to Anker SOLIX X1 Home Energy Storage System [Warranty Policy] for details.

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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*	84.5 kg	135.5 kg	186.5 kg	243 kg	294 kg	345 kg
W × H × D Dimensions (mm)**	670 × 880 × 150	670 × 1,240 × 150	670 × 1,600 × 150	670 × 1,600 × 150	670 × 1,600 × 150	670 × 1,600 × 150
				670 × 482 × 150	670 × 842 × 150	670 × 1,202 × 150

*Includes floor mounting base and top cover.

**Two column installation.

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