

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 <sup>1</sup> |
| 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 <sup>2</sup>        | 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 <sup>2</sup>        | 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 <sup>3</sup>                                                                                                                                                                                                                                                                            |              |              |                   |
| Mounting Options                          | Ground or Wall <sup>4</sup>                                                                                                                                                                                                                                                                     |              |              |                   |
| Operation Temperature                     | -25 ° C to 60℃ <sup>5</sup>                                                                                                                                                                                                                                                                     |              |              |                   |
| 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 <sup>6</sup>                                                                                                                                                                                                                                                                   |              |              |                   |
|                                           | 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°C.

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



|                                    |                                                  |
|------------------------------------|--------------------------------------------------|
| Model                              | X1-B5-H                                          |
|                                    | Performance Specifications                       |
| Battery Energy <sup>1</sup>        | 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 <sup>2</sup>                            |
|                                    | 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.



|                                        |                 |                   |                   |                   |                   |                   |
|----------------------------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Battery Module                         | × 1             | × 2               | × 3               | × 4 <sup>2</sup>  | × 5 <sup>2</sup>  | × 6 <sup>2</sup>  |
| 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) <sup>2</sup> | 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 |

1 Includes floor mounting base and top cover.

2 Two column installation.