



# Single Phase String Inverter **X1-Smart**

**Small Inverter  
Big Performance**



Low Start-Up  
Voltage



High  
Efficiency



Small &  
Lightweight



Remote  
Monitoring

6kW

7kW

8kW

## **X1-6.0-T-N / X1-7.0-T-N / X1-8.0-T-N**

The all-new SolaX X1 Smart range of inverters promises unrivalled performance as it boasts advanced DSP control technology, utilising the latest high-efficiency power components and achieving a maximum efficiency of up to 97.4%. (Not available in the UK)





# X1-SMART (SINGLE PHASE)

|   | X1-6.0-T-N | X1-7.0-T-N  | X1-8.0-T-N |
|---|------------|---|------------|
| <b>INPUT (DC)</b>                           |            |   |            |
| Max.PV array power [Wp]                     | 9000       | 10500   | 12000      |
| Max.DC voltage [V]                          | 550        | 550   | 550        |
| Nominal DC operating voltage [V]            | 360        | 360   | 360        |
| Max. input current [A]                      | 11/22      | 11/22   | 11/22      |
| Max. short circuit current [A]              | 12/24      | 12/24   | 12/24      |
| MPPT voltage range[V]                       | 100-500    | 100-500   | 100-500    |
| Start operating voltage[V]                  | 120        | 120   | 120        |
| No. of MPP trackers                         | 2          | 2   | 2          |
| Strings per MPP tracker                     | 1/2        | 1/2   | 1/2        |
| <b>OUTPUT AC</b>                            |            |   |            |
| Nominal AC power [VA]                       | 6000       | 7000  | 8000       |
| Max. AC power [VA]                          | 6000       | 7000  | 8000       |
| Nominal grid voltage(AC voltage range) [V]  |            | 220/230/240; 160-285  |            |
| Nominal grid frequency/range [Hz]           |            | 50/60; ±5   |            |
| Nominal AC current [A]                      | 28         | 32  | 35         |
| Max. AC current [A]                         |            | 45  |            |
| Displacement power factor                   |            | 0.8 leading... 0.8 lagging  |            |
| THDi, rated power [%]                       |            | <3  |            |
| <b>EFFICIENCY</b>                           |            |   |            |
| MPPT efficiency [%]                         |            | 99.90   |            |
| Euro efficiency [%]                         |            | 96.80   |            |
| Max. efficiency [%]                         |            | 97.40   |            |
| <b>POWER CONSUMPTION</b>                    |            |   |            |
| Standby consumption (Night) [W]             |            | <1  |            |
| <b>STANDARD</b>                             |            |   |            |
| Over voltage protection                     |            | YES   |            |
| Over current protection                     |            | YES   |            |
| DC isolation impedance monitoring           |            | YES   |            |
| Ground fault current monitoring             |            | YES   |            |
| DC injection monitoring                     |            | YES   |            |
| RCD protection                              |            | YES   |            |
| Safety                                      |            | IEC62109-1/IEC62109-2   |            |
| EMC   |            | EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-3-12 / EN 61000-6-1/ EN 61000-6-2 / EN 61000-6-3 |            |
| Certification                               |            | AS4777  |            |
| <b>ENVIRONMENT LIMIT</b>                    |            |   |            |
| Degree of protection(according to IEC60529) |            | IP65  |            |
| Operating temperature range [°C]            |            | -25~+60 (derating at 45)  |            |
| Max. operation altitude [m]                 |            | 2000  |            |
| Humidity [%]                                |            | 0~100, non condensing   |            |
| Storage temperature [°C]                    |            | -25~+60   |            |
| Typical noise emission [dB]                 |            | 40  |            |
| <b>DIMENSION AND WEIGHT</b>                 |            |   |            |
| Dimensions(WxHxD) [mm]                      |            | 401*450*190   |            |
| Weight[kg]                                  |            | 22  |            |
| Cooling concept                             |            | Natural   |            |
| Topology                                    |            | Non-isolated  |            |
| Communication interfaces                    |            | Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-Upgrade  |            |
| LCD display                                 |            | Backlight 20*4 character  |            |
| Standard warranty [years]                   |            | 5+5   |            |