

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



**Simple.  
Reliable.  
Efficient**



High Efficiency



Wide Voltage Range



Remote Monitoring



IP65 Rated

2.5kW

3kW

3.3kW

## **X1-2.5-S / X1-3.0-S / X1-3.3-S**

SolaX have developed a range of single phase inverters unrivalled in the industry for their quality, reliability and efficiency. The SolaX single phase inverters boast a wide MPPT voltage range to allow for more energy harvesting and have a maximum input voltage of 580V, with a maximum efficiency of 97.6%. In addition, SolaX single phase inverters are IP65 rated, have no internal fan and come with optional 'plug & play' WIFI.





# X1-AIR (SINGLE PHASE)

X1-2.5

X1-3.0

X1-3.3

## INPUT (DC)

|                                  |        |        |        |
|----------------------------------|--------|--------|--------|
| Max.PV array power [Wp]          | 3750   | 4500   | 4950   |
| Max.DC voltage [V]               | 600    | 600    | 600    |
| Nominal DC operating voltage [V] | 360    | 360    | 360    |
| Max. input current [A]           | 12     | 12     | 12     |
| Max. short circuit current [A]   | 14     | 14     | 14     |
| MPPT voltage range[V]            | 70-580 | 70-580 | 70-580 |
| Start operating voltage[V]       | 80     | 80     | 80     |
| No. of MPP trackers              | 1      | 1      | 1      |
| Strings per MPP tracker          | 1      | 1      | 1      |

## OUTPUT AC

|  |                           |      |      |
|--|---------------------------|------|------|
| Nominal AC power [VA]                      | 2500                      | 3000 | 3300 |
| Max. AC power [VA]                         | 2750                      | 3300 | 3630 |
| Nominal grid voltage(AC voltage range) [V] | 220/230/240; 180~280      |      |      |
| Nominal grid frequency/range [Hz]          | 50/60; ±5                 |      |      |
| Nominal AC current [A]                     | 10.9                      | 13.0 | 14.3 |
| Max. AC current [A]                        | 12.0                      | 14.3 | 15.8 |
| Displacement power factor                  | 0.8 leading ~ 0.8 lagging |      |      |
| THDi, rated power [%]                      | <2                        |      |      |

## EFFICIENCY

|                     |      |
|---------------------|------|
| MPPT efficiency [%] | 99.9 |
| Euro efficiency [%] | 96.8 |
| Max. efficiency [%] | 97.1 |

## POWER CONSUMPTION

|                                 |    |
|---------------------------------|----|
| Standby consumption (Night) [W] | <1 |
|---------------------------------|----|

## STANDARD

|                                   |   |
|-----------------------------------|---|
| 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                            | EN62109-1/-2                                    |
| EMC                               | EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3 |
| Certification                     | G98;AS4777;VDE4105; EN50549; CEIO-21            |

## ENVIRONMENT LIMIT

|   |                          |
|---|--------------------------|
| 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-condensation) |
| Storage temperature [°C]                    | -25~60                   |
| Typical noise emission [dB]                 | <25                      |

## DIMENSION AND WEIGHT

|                           |  |
|---------------------------|--|
| Dimensions(WxHxD) [mm]    | 323*402*119  |
| Weight[kg]                | 10.5   |
| 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               | Yes  |
| Standard warranty [years] | 5-10   |