

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



**Small Inverter  
Big Performance**



Low Start-Up  
Voltage



High  
Efficiency



Small &  
Lightweight



IP66  
Rated

0.6kW

0.7kW

1.1kW

1.5kW

**X1-0.6-S /X1-0.7-S /X1-1.1-S /X1-1.5-S /X1-2.0-S  
X1-2.5K-S /X1-3.0K-S /X1-3.3K-S /X1-3.6K-S**

The SolaX X1 Mini range of inverters are designed and engineered for small PV arrays. With a start-up voltage of 50V and a maximum efficiency of 98%, the X1 Mini promises unrivalled performance, allowing you to harvest the maximum amount of energy possible from your PV system.





# X1-MINI (SINGLE PHASE)

X1-0.6 X1-0.7 X1-1.1 X1-1.5 X1-2.0 X1-2.5K X1-3.0K X1-3.3K X1-3.6K

## INPUT (DC)

Max.PV array power [Wp]	900	1050	1650	2250	3000	3750	4500	4950	5400
Max.DC voltage [V]	450	450	450	450	450	550	550	550	550
Nominal DC operating voltage [V]	360	360	360	360	360	360	360	360	360
Max. input current [A]	14	14	14	14	14	14	14	14	14
Max. short circuit current [A]	16	16	16	16	16	16	16	16	16
MPPT voltage range[V]	45-430	45-430	45-430	50-430	50-430	55-530	55-530	55-530	55-530
Start operating voltage[V]	50	50	50	50	50	70	70	70	70
No. of MPP trackers	1	1	1	1	1	1	1	1	1
Strings per MPP tracker	1	1	1	1	1	1	1	1	1

## OUTPUT AC

Nominal AC power [VA]	600	700	1100	1500	2000	2500	3000	3300	3680
Max. AC power [VA]	660(600 for VDE4105)	770	1210	1650	2200	2750	3300	3300	3680
Nominal grid voltage(AC voltage range) [V]	220/230/240; 180~280								
Nominal grid frequency/range [Hz]	50/60; ±5								
Nominal AC current [A]	2.61	3.04	4.78	6.52	8.7	10.8	13.04	14.3	16.0
Max. AC current [A]	2.87	3.3	5.3	7.2	9.6	11.9	14.3	14.3	16.0
Displacement power factor	0.8 leading ~ 0.8 lagging								
THDi, rated power [%]	<3								

## EFFICIENCY

MPPT efficiency [%]	99.9								
Euro efficiency [%]	95.0	95.0	95.5	96.0	96.5	96.5	96.5	96.5	96.5
Max. efficiency [%]	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0

## POWER CONSUMPTION

Standby consumption (Night) [W]	0								
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## 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	EN62109-1/-2; G98; AS/NZS 4777.2; VDE4105; EN50438								

## ENVIRONMENT LIMIT

Degree of protection(according to IEC60529)	IP66								
Operating temperature range [°C]	-25~+60(derating at 45)								
Max. operation altitude [m]	≤2000								
Humidity [%]	0~100 ( condensation)								
Storage temperature [°C]	-30~+70								
Typical noise emission [dB]	<25								

## DIMENSION AND WEIGHT

Dimensions(WxHxD) [mm]	267*328*116								
Weight[kg]	6								
Cooling concept	Natural								
Topology	Non-isolated								
Communication interfaces	RS485/ DRM/ WiFi,LAN,GPRS(optional)/ USB								
LCD display	Standard								
Standard warranty [years]	5-10								