



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
INPUT (DC)			
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
OUTPUT AC			
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	
EFFICIENCY			
MPPT efficiency [%]		99.90	
Euro efficiency [%]		96.80	
Max. efficiency [%]		97.40	
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		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	
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 condensing	
Storage temperature [°C]		-25~+60	
Typical noise emission [dB]		40	
DIMENSION AND WEIGHT			
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]		12	