

NEW

From Solax

SINGLE PHASE INVERTER RANGE



X1 SINGLE PHASE INVERTERS

Solax X1 single phase series are high quality single & dual MPPT inverters offering efficiency and reliability at an unbeatable cost.

Solax have developed a range of single phase inverters, unrivaled in the industry for their quality, reliability and efficiency. The Solax single phase inverters boast a wide MPPT voltage range to allow you to harvest the maximum amount of energy possible from your PV system and have a maximum input voltage of 600V, with a maximum efficiency up to 97.8%.



X1 MINI



X1 AIR



X1 BOOST

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X1 MINI

X1 AIR

X1 BOOST

X1-1.1 X1-1.5 X1-2.0 X1-2.5 X1-3.0 X1-3.3 X1-3.0T X1-3.3T X1-3.6T X1-4.2T X1-5.0T

INPUT (DC)											
Max.recommended DC power [W]	1250	1650	2200	2700	3200	3450	3250	3500	4000	4600	5200
Max. input DC voltage [V]	400	400	400	600	600	600	600	600	600	600	600
Max. input current [A]	10	10	10	10	10	10	12/12	12/12	12/12	12/12	12/12
MPPT voltage range [V]	55-380	55-380	55-380	100-580	100-580	100-580	125-580	125-580	125-580	125-580	125-580
Start input/output voltage [V]	55/70	55/70	55/70	65/120	65/120	65/120	110/150	110/150	110/150	110/150	110/150
Number of MPP tracker/strings per MPP tracker	1/1	1/1	1/1	1/1	1/1	1/1	2/1	2/1	2/1	2/1	2/1
OUTPUT (AC)											
AC nominal power [VA]	1100	1500	2000	2500	3000	3300	3000	3300	3680	4200	4600
Max. AC power [VA]	1100	1500	2000	2500	3000	3300	3000	3300	3680	4200	5000
Norminal AC voltage; range [V]	220/230/240; 180~280			220/230/240; 180~280			220/230/240; 180~280				
AC grid frequency; range) [Hz]	50/60; ±5			50/60; ±5			50/60; ±5				
Max. AC current [A]	5.5	7.5	9.5	12	14	15	14	15	16	19	21
Power factor (full load)	0.8 leading ~ 0.8 lagging			0.8 leading ~ 0.8 lagging			0.8 leading ~ 0.8 lagging				
Total harmonic distortion(THD) [%]	<2			<2			<2				
POWER CONSUMPTION											
Standby power [W]	<10			<10			<2				
EFFICIENCY											
MPPT efficiency [%]	99.9			99.9			99.9				
Euro efficiency [%]	95.5	96	96.5	96.8			97.0				
Max. efficiency [%]	97.1			97.6			97.8				
SAFETY & PROTECTION											
Over voltage protection	YES			YES			YES				
Over current protection	YES			YES			YES				
DC isolation impedance monitoring	YES			YES			YES				
Ground fault current monitoring	YES			YES			YES				
DC injection monitoring	YES			YES			YES				
RCD protection	YES			YES			YES				
Safety	EN62109-1/-2			EN62109-1/-2			IEC62109-1/-2				
EMC	EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3			EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3			EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3				
Certification	G83/2;G59/3;AS4777.2-2015;VDE4105; EN50438;CQC;CEI0-21			G83/2;G59/3;AS4777.2-2015;VDE4105; EN50438; CQC			G83/2;G59;AS4777.2-2015;VDE4105; EN50438;CQC;VDE0126				
ENVIRONMENTAL PARAMETERS											
Protection class	IP65			IP65			IP65				
Operating temperature [°C]	-20~ +60(derating at 45)			-20~ +60(derating at 45)			-20~ +60(derating at 45)				
Humidity [%]	0~95 (no condensation)			0~95 (no condensation)			0~95 (no condensation)				
Attitude [m]	2000			2000			2000				
Storage temperature [°C]	-20~+60			-20~+60			-20~+60				
Noise emission [dB]	<25			<30			<25				
DIMENSIONS & WEIGHT											
Dimensions (W*H*D) [mm]	248*350*124			323*402*119			420*339*143				
Weight [Kg]	7			9.5			14.6	14.6	14.6	16.7	16.7
GENERAL DATA											
Topology	Transformerless			Transformerless			Transformerless				
Communication interface	RS485 / WIFI(optional) / DRM / USB			RS485 / WIFI(optional) / DRM / USB			RS485 / WIFI(optional) / DRM / USB / RF(optional) / Meter(optional)				
Display	6 LED			11 LED			Backlight 16*4 character				
Standard warranty [years]	5-10 (Dependent On Territory)			5-10 (Dependent On Territory)			5-10 (Dependent On Territory)				
Cooling type	Natural			Natural			Natural				