



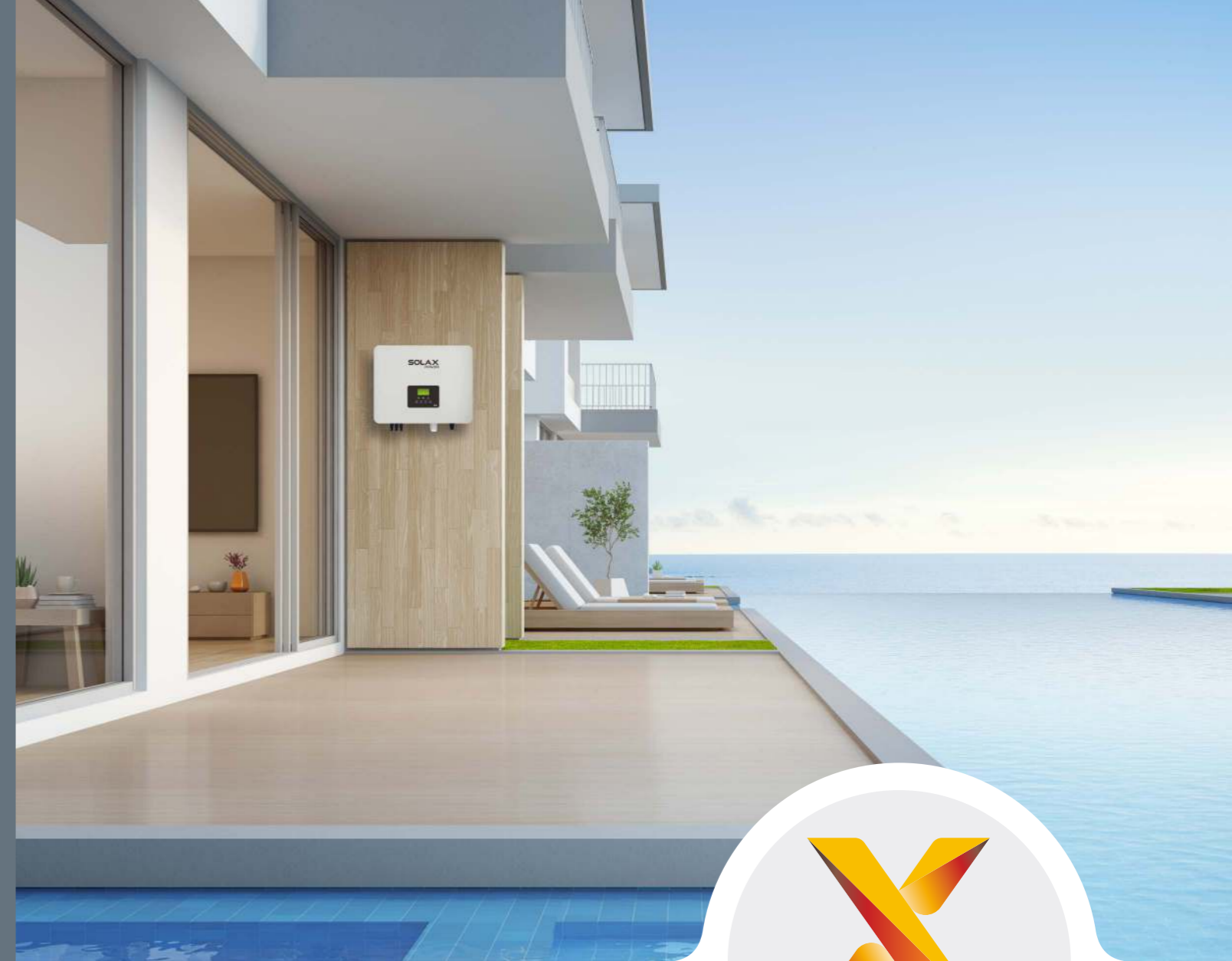
Energy of the Future, Today

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SOLAX STRING INVERTER

ENGINEERED FOR SOLAR

Product Brochure



X1 SINGLE PHASE INVERTER

SolaX X1 single phase inverters 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 98.0%.

SolaX Power Network Technology(Zhejiang) Co., Ltd. was established in 2012. Headquarter located in the National College Science Park of Zhejiang University, SolaX has a long-term cooperation with Zhejiang University. Relying on the talents, lab equipment and technology from Zhejiang University, SolaX can continually focus on research and development of smart PV energy storage products.

Covering a total area of 240,000 square meters, the manufacture base of SolaX in China is well-equipped with world-class production and testing facilities. With branches in five countries globally, SolaX Power has over 500 international employees, 130 of whom are senior engineers and industry experts. At present, SolaX sell its products to more than 118 countries.

SolaX is a hi-tech enterprise that integrated R&D, production, sales and service as one, and is dedicated to providing grid-tied inverters, storage inverters, solar battery storage and smart PV energy storage systems.

To date, SolaX offers the most diversified product line globally and has the widest application coverage. SolaX has maintained a leading global market share over years and also is the global leader in the field of smart PV energy storage systems.

SolaX was authorized more than 70 national patents since establishment, including more than 10 invention patents. SolaX inverters have been granted more than 150 international authorized certifications until now.

In 2013, SolaX successfully launched Asian's first X-Hybrid energy storage inverter, and now it's the 4th generation. SolaX is truly a leader in solar and energy storage industry.





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 MPPT trackers	1	1	1	1	1	1	1	1	1
Strings per MPPT 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						220/230/240; 180~280		
Nominal grid frequency/range [Hz]	50/60; ±5						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						0.8 leading ~ 0.8 lagging		
THDi, rated power [%]	<3						<3		

EFFICIENCY

MPPT efficiency [%]	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Euro efficiency [%]	95.0	95.0	95.5	96.0	95.5	96.0	95.5	96.0	95.5
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						0		
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STANDARD

Over voltage protection	YES						YES		
Over current protection	YES						YES		
DC isolation impedance monitoring	YES						YES		
Ground fault current monitoring	YES						YES		
DC injection monitoring	YES						YES		
RCD protection	YES						YES		
Safety	EN62109-1/-2						EN62109-1/-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		
Certification	EN62109-1/-2; G98; AS/NZS 4777.2; VDE4105; EN50438						EN62109-1/-2; G98; AS/NZS 4777.2; VDE4105; EN50438		

ENVIRONMENT LIMIT

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

DIMENSION AND WEIGHT

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



X1-BOOST (SINGLE PHASE)

X1-3.0T X1-3.3T X1-3.6T X1-4.2T X1-4.6T X1-5.0T X1-5.5K X1-6.0K

INPUT (DC)	X1-3.0T	X1-3.3T	X1-3.6T	X1-4.2T	X1-4.6T	X1-5.0T	X1-5.5K	X1-6.0K
Max.PV array power [Wp]	4500	4950	5400	6300	6900	7500	8250	9000
Max.DC voltage [V]	600	600	600	600	600	600	600	600
Nominal DC operating voltage [V]	360	360	360	360	360	360	360	360
Max. input current [A]	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14
Max. short circuit current [A]	16	16	16	16	16	16	16	16
MPPT voltage range[V]	70-580	70-580	70-580	70-580	70-580	70-580	70-580	70-580
Start operating voltage[V]	100	100	100	100	100	100	100	100
No. of MPP trackers / Strings per MPP tracker	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)
OUTPUT AC								
Nominal AC power [VA]	3000	3300	3680	4200	4600	5000(4600 for VDE4105)	5500	6000
Max. AC power [VA]	3300	3630	4080(3680 for TOR)	4620	5060	5500(4600 for VDE4105)	6050	6600
Nominal grid voltage(AC voltage range) [V]	220/230/240; 180~280							
Nominal grid frequency/range [Hz]	50/60; ±5							
Nominal AC current [A]	13	14.3	16	18.3	20	21.7(20 for VDE4105)	23.9	26.1
Max. AC current [A]	14.3	15.8	17.6(16 for G98)	20.1	22	23.9	26.3	28.7
Displacement power factor	0.8 leading ~ 0.8 lagging							
THDi, rated power [%]	<2							
EFFICIENCY								
MPPT efficiency [%]	99.9							
Euro efficiency [%]	97.0							
Max. efficiency [%]	98.0							
POWER CONSUMPTION								
Standby consumption (Night) [W]	<2							
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/-2							
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3							
Certification	VDE4105 /G98 / G99/ AS4777 / EN50549 / CEI0-21							
ENVIRONMENT LIMIT								
Degree of protection(according to IEC60529)	IP66							
Operating temperature range [°C]	-25~+60(derating at 45)							
Max. operation altitude [m]	<3000							
Humidity [%]	0~100 (non-condensation)							
Storage temperature [°C]	-30~+70							
Typical noise emission [dB]	<25							
DIMENSION AND WEIGHT								
Dimensions(WxHxD) [mm]	430*341.5*143							
Weight[kg]	13.5	13.5	13.5	15	15	15	15	15
Cooling concept	Natural							
Topology	Non-isolated							
Communication interfaces	Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/CT/Meter(optional)/RS485/DRM/USB							
LCD display	Yes							
Standard warranty [years]	5-10							



X3-MIC (THREE PHASE) (T For Dual MPPT S For Single MPPT)

	X3-4.0-T	X3-5.0-T	X3-6.0-T	X3-7.0-T	X3-8.0-T	X3-9.0-T	X3-10.0-T	X3-4.0-S	X3-5.0-S
INPUT (DC)									
Max.PV array power [Wp]	6000	7500	9000	10500	12000	13500	15000	6000	7500
Max.DC voltage [V]	800	800	800	1000	1000	1000	1000	1000	1000
Nominal DC operating voltage [V]	600	600	600	600	600	600	600	600	600
Max. input current [A]	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12	12
Max. short circuit current [A]	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14	14
MPPT voltage range[V]	160-750	160-750	160-750	160-900	160-900	160-900	160-900	160-900	160-900
Start operating voltage[V]	180	180	180	180	180	180	180	180	180
No. of MPPT trackers/Strings per MPPT tracker	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	1	1
OUTPUT AC									
Nominal AC power [VA]	4000	5000	6000	7000	8000	9000	10000	4000	5000
Max. AC power [VA]	4400	5500	6600	7700	8800	9900	11000	4400	5500
Nominal grid voltage(AC voltage range) [V]	3/N/PE, 3/PE, 230/400(310-480)						3/N/PE, 3/PE, 230/400(310-480)		
Nominal grid frequency/range [Hz]	50/60;±5						50/60;±5		
Nominal AC current [A]	5.8	7.2	8.7	10.1	11.6	13.0	14.5	5.8	7.2
Max. AC current [A]	6.4	8.0	9.6	11.2	12.8	14.3	15.9	6.4	8.0
Displacement power factor	0.8leading-0.8lagging						0.8leading-0.8lagging		
THDi, rated power [%]	<2						<2		
EFFICIENCY									
MPPT efficiency [%]	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Euro efficiency [%]	97.8	97.8	97.8	98	98	98	98	97.8	97.8
Max. efficiency [%]	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.3	98.3
POWER CONSUMPTION									
Standby consumption (Night) [W]	<3						<3		
STANDARD									
Over voltage protection	YES						YES		
Over current protection	YES						YES		
DC isolation impedance monitoring	YES						YES		
Ground fault current monitoring	YES						YES		
DC injection monitoring	YES						YES		
RCD protection	YES						YES		
Safety	EN62109-1/-2						EN62109-1/-2		
EMC	EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3						EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3		
Certification	AS4777; VDE4105; G98; G99; EN50549; CEI0-21						AS4777; VDE4105; G98; G99; EN50549; CEI0-21		
ENVIRONMENT LIMIT									
Degree of protection(according to IEC60529)	IP65						IP65		
Operating temperature range [°C]	-25~+60(derating at 45)						-25~+60(derating at 45)		
Max. operation altitude [m]	<2000						<2000		
Humidity [%]	0~100 (condensing)						0~100 (condensing)		
Storage temperature [°C]	-25~60						-25~60		
Typical noise emission [dB]	<35						<35		
DIMENSION AND WEIGHT									
Dimensions(WxHxD) [mm]	534*419*201						534*419*201		
Weight[kg]	30	30	30	30	30	30	30	28	28
Cooling concept	Natural						Natural		
Topology	Non-isolated						Non-isolated		
Communication interfaces	RS485/DRM/Pocket WiFi(optional)/Pocket LAN (optional)/Pocket GPRS (optional)/Meter (optional)/USB-upgrade						RS485/DRM/Pocket WiFi(optional)/Pocket LAN (optional)/Pocket GPRS (optional)/Meter (optional)/USB-upgrade		
LCD display	Backlight 16*4 character						Backlight 16*4 character		
Standard warranty [years]	5-10						5-10		



Features:

- Secure & reliable with software and hardware protection
- Maximum efficiency up to 98.3%, Euro efficiency up to 97.8%
- Wide MPPT voltage range & Two independent MPPT (three strings)
- Enclosure Rating-IP65
- Multiple protections: Over voltage / under voltage, earth protection, anti-islanding, overload, over temperature and RCD protection, etc.



X3-PRO (THREE PHASE)

X3-8.OP

X3-10.OP

X3-12.OP

X3-15.OP

INPUT (DC)

Max.PV array power [Wp]	12000	15000	18000	22500
Max.DC voltage [V]	1000	1000	1000	1000
Nominal DC operating voltage [V]	600	600	600	600
Max. input current [A]	12/24	12/24	12/24	12/24
Max. short circuit current [A]	14/28	14/28	14/28	14/28
MPPT voltage range[V]	160-850	160-850	160-850	160-850
Start operating voltage[V]	180	180	180	180
No. of MPPT trackers/Strings per MPPT tracker	2(1/2)	2(1/2)	2(1/2)	2(1/2)

OUTPUT AC

Nominal AC power [VA]	8000	10000	12000	15000
Max. AC power [VA]	8800	11000	13200	16500
Nominal grid voltage(AC voltage range) [V]	3/N/PE, 230/400(310-480)			
Nominal grid frequency/range [Hz]	50/60;±5			
Nominal AC current [A]	11.6	14.5	17.4	21.7
Max. AC current [A]	12.8	15.9	19.1	23.9
Displacement power factor	0.8leading-0.8lagging			
THDi, rated power [%]	<3			

EFFICIENCY

MPPT efficiency [%]	99.9
Euro efficiency [%]	97.8
Max. efficiency [%]	98.3

POWER CONSUMPTION

Standby consumption (Night) [W]	<3
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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	EN61000-6-1;EN61000-6-2;EN61000-6-3; EN61000-3-12; EN61000-3-11
Certification	VDE4105; AS4777; EN50549; IEC61727

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 (condensing)
Storage temperature [°C]	-25~60
Typical noise emission [dB]	<45

DIMENSION AND WEIGHT

Dimensions(WxHxD) [mm]	534*419*179
Weight[kg]	32
Cooling concept	Forced airflow
Topology	Non-isolated
Communication interfaces	RS485/DRM/Pocket WiFi(optional)/Pocket LAN (optional)/Pocket GPRS (optional)/Meter (optional)/USB-upgrade
LCD display	Backlight 16*4 character
Standard warranty [years]	5/10(optional)