#### Energy of the Future, Today

Global: +86 571-56260008

AU: +61 1300 476529 DE: +49 (0) 6142 4091664

UK: +44 2476 586998 NED:+31 (0) 852 737932 www.solaxpower.com ✓ info@solaxpower.com



# STRING INVERTER

ENGINEERED FOR SOLAR



## 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, reliablity 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%.

SolaX Power Network Technology(Zhejiang) Co., Ltd is one of the largest inverter manufacturer in China, a subsidiary company of Hangzhou Sunny Energy Science & Technology Co., Ltd. SolaX established in 2010. Headquarter located in the National College Science Park of Zhejiang University, to cooperate with Zhejiang University, focusing on research and development of Photovoltaic products.

Specialized in R&D, production, sales and service by a range of grid-tied inverters, PV Storage inverters and Family Smart Energy systems. So far, SolaX is one of few domestic Photovoltaic manufacturers offering massive production of smart PV Storage inverters.

SolaX has achieved more than 50 national patents including 15 invention patents, 25 utility model patents, and more than 10 design patents. SolaX inverters also have been tested and obtained more than 120 international authorized certifications.





#### X1-MINI (SINGLE PHASE)

NAME	48	X1-0.7 X1-1.1 X1-1.5 X1-2.0					
Max IXC vorlatge IV    360	INPUT (DC)						
Nominat DC operating voltage IVI	Max.PV array power [Wp]	1050	1650	2250	3000		
Max. Protect Court (A)	Max.DC voltage [V]	400	400	400	400		
Max. short circuit current [A]	Nominal DC operating voltage [V]	360	360	360	360		
MPPT voltage rangel/Y	Max. input current [A]	12	12	12	12		
Start operating votage[V]	Max. short circuit current [A]	14	14	14	14		
No. of MPFT trackers	MPPT voltage range[V]	55-380	55-380	55-380	55-380		
Strings per MPPT tracker	Start operating voltage[V]	70	70	70	70		
Nominal AC power (VA)	No. of MPPT trackers	1	1	1	1		
Nominal AC power [VA]	Strings per MPPT tracker	1	1	1	1		
Max. AC, power [VA]   770	OUTPUT AC						
Max. AC, power [VA]   770	Nominal AC power [VA]	700	1100	1500	2000		
Nominal grid voitage/AC voitage range) [V]   220/230/240; 180-280     Nominal grid frequency/range [Hz]   50/60; ±5     Nominal AC current [A]   3.04   4.78   6.52   8.70     Max. AC current [A]   3.3   5.3   7.2   9.6     Displacement power factor   0.8 leading = 0.8 lagging     THDi rated power [X]   2.5     Euro efficiency [X]   99.9     Euro efficiency [X]   99.9     Euro efficiency [X]   95   95.5   96   96.5     Max. efficiency [X]   97.1     POWER CONSUMPTION     Standary consumption (Night) [W]   41     STANDARD   745   755   755   756   96   96.5     Max. efficiency [X]   97.1     POWER CONSUMPTION     Standary consumption (Night) [W]   41     STANDARD   745   755   755   756   96   96.5     Max. efficiency [X]   95   95.5   96   96.5     Max. efficiency [X]   97.1     POWER CONSUMPTION   745   755   755   96   96.5     Max. efficiency [X]   97.1     STANDARD   745   755   755   96   96.5     Max. efficiency [X]   97.1     Displaction impedance monitoring   745   755   755   755   755     Ground fault current monitoring   745   755   755   755   755     Safety   155   755   755   755   755   755     EINC   155   755   755   755   755   755   755   755     EINC   155   755   755   755   755   755   755   755   755   755     EINC   155   755	· · · · · · · · · · · · · · · · · · ·						
Nominal grid frequency/range [Hz]   3.04   4.78   6.52   8.70							
Nominal AC current [A]   3.04							
Max. AC current   Max. AC cu		3.04			8.70		
Displacement power factor   Clistopower   X							
THDL rated power  %							
### PFT efficiency [X] 99.9    Euro efficiency [X] 95 95.5 96 96.5     Max. efficiency [X] 97.1     POWER CONSUMPTION     Standby consumption (Night) [W]							
### PPT efficiency [%] 99.9    Euro efficiency [%] 95 95.5 96 96.5     Max. efficiency [%] 97.1     POWER CONSUMPTION							
Euro efficiency  X    95   95.5   96   96.5			0	10.0			
Max. efficiency [ki] 97.1  POWER CONSUMPTION  Standby consumption (Night) [w] 4.1  STANDARD  Over voltage protection YES Over current protection YES Cover current protection YES Ground fault current monitoring YES C injection monitoring YES C injection monitoring YES RCD protection YES Safety IEC62109-11/2 EMC ENGINEED SAFETY, VDE4105; EN50549, CEIO-21  ENVIRONMENT LIMIT  Degree of protection/according to IEC60529) IP65 Operating temperature range [°C  -25-+60(derating at 45) -45 August 2000 -41 August 2000 -42 Humidity [k] 0-100 (condensation) Storage temperature [°C  -25-+60 -45 Typical noise emission [dB] -25  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm] 267*328*116 -6 Cooling concept Autoritation (Non-isolated) Fooklogy Non-isolated Fooklogy Pocket WiFi(optionall/Pocket LAN(optionall/Pocket GPRS(optionall)/Meter(optionall/RS485/DRM/USB)					0.5.5		
POWER CONSUMPTION  Standby consumption (Night) [W]		95			96.5		
Standby consumption (Night) [W]     Image: Consumption (Night) [W]       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     EN61000-6-1;EN61000-6-2;EN61000-3-2;EN61000-3-3       Certification     G98; AS4777; VDE410S; ENSOS49, CEI0-21       ENVIRONMENT LIMIT     IP65       Degree of protection/(according to IEC60529)     IP65       Operating temperature range [°C]     -25~+60(derating at 45)       Max. operation altitude [m]     <2000				77.1			
STANDARD  Over voltage protection YES  Over current protection YES  DC isolation impedance monitoring YES  Ground fault current monitoring YES  BC injection monitoring YES  RCD protection YES  RCD protection YES  Safety IEC62109-1/-2  EMC ENG1000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3  Certification G98; AS4777; VDE4105; EN50549; CEI0-21  ENVIRONMENT LIMIT  Degree of protection(according to IEC60529)  Operating temperature range (°C) -25~+60(derating at 45)  Max. operation altitude [m] -2000  Humidity [X] 0-100 (condensation)  Storage temperature (°C) -25~+60  Typical noise emission (dB) -25~+60  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm] 267*328*116  Weightikgl 6  Cooling concept Natural  Topology Communication interfaces Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/RS485/DRM/USB	POWER CONSUMPTION	_					
Over voltage protection Over current protection PYES Over current protection PYES  DC isolation impedance monitoring Ground fault current monitoring PYES  DC injection monitoring PYES  RCD protection R	Standby consumption (Night) [W]			<1			
Over current protection YES  DC isolation impedance monitoring Ground fault current monitoring YES  DC injection monitoring RCD protection RCD protection Safety RCD EMC EMC EN61000-6-1;EN61000-6-2;EN61000-3-2;EN61000-3-3  Certification ENVIRONMENT LIMIT  Degree of protection(according to IEC60529) Operating temperature range (°C) Humidity (%) Storage temperature range (°C) Typical noise emission (dB)  Dimensions(WxHxD) (mm) Weight(kg) Cooling concept Topology Communication interfaces Pocket WiFi(optionall)/Pocket LAN(optionall)/Pocket GPRS(optionall)/Meter(optional)/RS485/DRM/USB	STANDARD	_					
DC isolation impedance monitoring Ground fault current monitoring DC injection monitoring RCD protection RCD protection Safety EEMC EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3 Certification ENVIRONMENT LIMIT Degree of protection(according to IEC60529) Operating temperature range (°C) Max. operation altitude [m] Humidity [%] Storage temperature (°C) Typical noise emission [dB] Dimensions(WXHxD) [mm] Weight[kg] Cooling concept Topology Communication interfaces PCKET SET SET SET SET SET SET SET SET SET S	Over voltage protection	_	Υ	'ES			
Ground fault current monitoring  DC injection monitoring  RCD protection  Safety  EMC  EMC  EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3  Certification  EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3  Certification  G98; AS4777; VDE4105; EN50549; CEI0-21  ENVIRONMENT LIMIT  Degree of protection(according to IEC60529)  Operating temperature range (°C)  Max. operation altitude [m]  42000  Humidity [%]  O~100 (condensation)  Storage temperature (°C)  Typical noise emission [dB]  O*25~+60  Typical noise emission [dB]  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm]  Dimensions(WxHxD) [mm]  Cooling concept  Natural  Topology  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB	Over current protection	YES					
DC injection monitoring  RCD protection  YES  Safety  IEC62109-1/-2  EMC  EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3  Certification  G98; AS4777; VDE4105; EN50549; CEI0-21  ENVIRONMENT LIMIT  Degree of protection(according to IEC60529)  Operating temperature range [°C]  Max. operation altitude [m]  42000  Humidity [%]  O-100 (condensation)  Storage temperature [°C]  Typical noise emission [dB]  Dimensions(WxHxD) [mm]  Dimensions(WxHxD) [mm]  Dimensions(WxHxD) [mm]  Cooling concept  Natural  Topology  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB	DC isolation impedance monitoring		Υ	/ES			
RCD protection  Safety  IEC62109-1/-2  EMC  EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3  Certification  G98; AS4777; VDE4105; EN50549; CEI0-21  ENVIRONMENT LIMIT  Degree of protection(according to IEC60529)  Operating temperature range [°C]  Max. operation altitude [m]  42000  Humidity [%]  O~100 (condensation)  Storage temperature [°C]  Typical noise emission [dB]  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm]  Dimensions(WxHxD) [mm]  Cooling concept  Natural  Topology  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB	Ground fault current monitoring	_	Υ	'ES			
Safety IEC62109-1/-2  EMC EN61000-6-1;EN61000-6-2;EN61000-3-2;EN61000-3-3  Certification G98; AS4777; VDE4105; EN50549; CEI0-21  ENVIRONMENT LIMIT  Degree of protection(according to IEC60529)  Operating temperature range [°C] -25~+60(derating at 45)  Max. operation altitude [m] <2000  Humidity [%] 0~100 (condensation)  Storage temperature [°C] -25~+60  Typical noise emission [dB] <25  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm] 267*328*116  Weight[kg] 6  Cooling concept Natural  Topology Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB	DC injection monitoring	YES					
EMC EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3  Certification G98; AS4777; VDE4105; EN50549; CEI0-21  ENVIRONMENT LIMIT  Degree of protection(according to IEC60529) Operating temperature range [°C] -25~+60(derating at 45)  Max. operation altitude [m]  Humidity [%] 0~100 (condensation)  Storage temperature [°C] -25~+60  Typical noise emission [dB]   Typical noise emission [dB]  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm] 267*328*116  Weight[kg] 6  Cooling concept Natural  Topology Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB.	RCD protection	_	Υ	'ES			
Certification   G98; AS4777; VDE4105; EN50549; CEI0-21	Safety	_	IEC62	109-1/-2			
Degree of protection(according to IEC60529) Operating temperature range [°C] Max. operation altitude [m] Aux. oper	EMC	EN610	000-6-1;EN61000-6-2;EN610	000-6-3;EN61000-3-2;EN61	000-3-3		
Degree of protection(according to IEC60529)  Operating temperature range [°C]  Max. operation altitude [m]  Humidity [%]  Storage temperature [°C]  Typical noise emission [dB]  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept  Topology  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-	Certification	G98; AS4777; VDE4105; EN50549; CEI0-21					
Operating temperature range [°C]  Max. operation altitude [m]  Humidity [%]  Storage temperature [°C]  Typical noise emission [dB]  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept  Topology  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-	ENVIRONMENT LIMIT						
Operating temperature range [°C]  Max. operation altitude [m]  Humidity [%]  Storage temperature [°C]  Typical noise emission [dB]  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept  Topology  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-	Degree of protection(according to IEC60529)		IF	P65			
Max. operation altitude [m]  Humidity [%]  Storage temperature [°C]  Typical noise emission [dB]  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept  Topology  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-			-25~+60(d	erating at 45)			
Humidity [%] 0~100 (condensation)  Storage temperature [°C] -25~+60  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 Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-							
Storage temperature [°C] Typical noise emission [dB]  C25  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept Topology  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-	<del></del>		0~100 (co	ondensation)			
DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm] 267*328*116  Weight[kg] 6  Cooling concept Natural  Topology Non-isolated  Communication interfaces Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-	Storage temperature [°C]						
Dimensions(WxHxD) [mm]     267*328*116       Weight[kg]     6       Cooling concept     Natural       Topology     Non-isolated       Communication interfaces     Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-	Typical noise emission [dB]		<	:25			
Weight[kg]     6       Cooling concept     Natural       Topology     Non-isolated       Communication interfaces     Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-	DIMENSION AND WEIGHT	_					
Weight[kg]     6       Cooling concept     Natural       Topology     Non-isolated       Communication interfaces     Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-		_	267**	328*116			
Cooling concept  Topology  Non-isolated  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-		_					
Topology Non-isolated  Communication interfaces Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-		_					
Communication interfaces Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-							
		Pocket WiFi(ontional)/Poc			I/RS485/DRM/USB-Ungrad		
		- 111 The Republican Tool	·				
Standard warranty (years) 5-10							



#### 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			
Max. short circuit current [A]			14			
MPPT voltage range[V]	70-580	70-580	70-580			
Start operating voltage[V]		80	80			
No. of MPPT trackers	1	1	1			
Strings per MPPT 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 [%]						
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;EN61000-3-3					
Certification	G98;AS4777;VDE4105; EN50549; CEI0-21					
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 (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						
Topology	_	Non-isolated				
Communication interfaces	Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-Upgra					
LCD display		Yes	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Standard warranty (years)		5-10				



#### X1-BOOST (SINGLE PHASE)

a.L	X1-3.0T	X1-3.3T	X1-3.6T	X1-4.2T	X1-4.6T	X1-5.0T	
INPUT (DC)							
Max.PV array power [Wp]	4500	4950	5400	6300	6900	7500	
Max.recommended DC power[W]	A:3300 B:3300	A:3300 B:3300	A:3300 B:3300	A:3300 B:3300	A:3300 B:3300	A:3300 B:3300	
Max.DC voltage [V]	600	600	600	600	600	600	
Nominal DC operating voltage [V]	360	360	360	360	360	360	
Max. input current [A]	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	
MPPT voltage range[V]	70-580	70-580	70-580	70-580	70-580	70-580	
Start operating voltage[V]	100	100	100	100	100	100	
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)	
OUTPUT AC							
Nominal AC power [VA]	3000	3300	3680	4200	4600	5000 (4600 for VDE4105	
Max. AC power [VA]	3300	3630	4048 (3680 for G98)	4620	5060	5500 (4600 for VDE4105	
Nominal grid voltage(AC voltage range) [V]			220/230/24	40; 180~280			
Nominal grid frequency/range [Hz]			50/6	60; <u>+</u> 5			
Nominal AC current [A]	13	14.3	16	18.3	20	21.7 (20 for VDE4105	
Max. AC current [A]	14.3	15.8	17.6(16 for G98)	20.1	22	23.9 (20 for VDE410) (21.7for AS477)	
Displacement power factor			0.8 leading	~ 0.8 lagging		(== 100	
THDi, rated power [%]				<2			
EFFICIENCY	_						
MPPT efficiency [%]			Q.	9 9			
Euro efficiency [%]	99.9						
Max. efficiency [%]	_			7.8			
POWER CONSUMPTION				7.0			
				0.5			
Standby consumption (Night) [W]				0.5			
STANDARD							
Over voltage protection	_			ES			
Over current protection	_			ES			
DC isolation impedance monitoring				ES			
Ground fault current monitoring				ES			
DC injection monitoring				ES			
RCD protection	_			ES			
Safety	_			109-1/-2			
EMC	_			000-6-2 / EN 61000			
Certification		VD	E4105 /G98 / G99/ /	AS4777 / EN50549 / C	EIO-21		
ENVIRONMENT LIMIT							
Degree of protection(according to IEC60529)	_		IF	265			
Operating temperature range [°C]	-25~+60(derating at 45)						
Max. operation altitude [m]	<2000						
Humidity [%]	0~100 (condensation)						
Storage temperature [°C]	-25~+60						
Typical noise emission [dB]			<	25			
DIMENSION AND WEIGHT							
Dimensions(WxHxD) [mm]			341.5*	430*143			
Weight[kg]	13.5	13.5	13.5	14.5	14.5	14.5	
Cooling concept			Na	tural			
Topology			Non-i	solated			
Communication interfaces	Pocket WiFi(optic	onal)/Pocket LAN(o	ptional)/Pocket GP	RS(optional)/Meter	(optional)/RS485/E	RM/USB-Upgrad	
LCD display			Υ	'es			
Standard warranty [years]			5-	-10			



#### X1-SMART (SINGLE PHASE)

Max.PV array power [Wo]   9000		X1-6.0 X1-7.0		X1-8.0			
Max.commended DC power(W)	INPUT (DC)						
Max.commended DC. power[W]	Max.PV array power [Wp]	9000	10500	12000			
MAXILSC voltage   N		3000/4000	3000/5000	3000/6000			
Nominal DC operating voltage IVI   1560	Max.DC voltage [V]						
Mox. short circuit current (A)		360	360	360			
MPPT voltage range V	Max. input current [A]	12/24	12/24	12/24			
Stant operating voltage V    120	Max. short circuit current [A]	14/28	14/28	14/28			
No. of MPPT trackers/Strings per MPPT tracker   20/2	MPPT voltage range[V]	100-530	100-530	100-530			
Norman   AC power   VN	Start operating voltage[V]	120	120	120			
Nominal AC power [VA]	No. of MPPT trackers/Strings per MPPT tracker	2(1/2)	2(1/2)	2(1/2)			
Max. AC power [VA]         6600         7700         8800           Nominal grid voltage(AC voltage range [M])         220/2307/240; 150-285         30.00           Nominal grid voltage(AC voltage range [M])         50/60; 15         50/60; 15           Nominal grid requency/range [M2]         50/60; 15         50/60; 15           Nominal AC current [A]         28.7         33.5         38.3           Max. AC current [A]         45         45         30.00           Displacement power factor         0.8 leading _0.8 lagging	OUTPUT AC						
Max. AC power [VA]         6600         7700         8800           Nominal grid voltage(AC voltage range [M])         220/2307/240; 150-285         30.00           Nominal grid voltage(AC voltage range [M])         50/60; 15         50/60; 15           Nominal grid requency/range [M2]         50/60; 15         50/60; 15           Nominal AC current [A]         28.7         33.5         38.3           Max. AC current [A]         45         45         30.00           Displacement power factor         0.8 leading _0.8 lagging		6000	7000	8000			
Nominal grid voltage AC, voltage range V    220/230/240; 160-285	<u> </u>						
Nominal grid frequency/range [Hz]   50/60; ±5   50/	<u> </u>						
Nominal AC current [A]							
Max. AC current [A]         45           Displacement power factor         0.8 leading 0.8 lagging           THDi. rated power [X]         3           Efficiency [X]         99.90           MPPT efficiency [X]         95.80           Max. efficiency [X]         97.40           Ower CONSUMPTION         1           Standby consumption (Night] [W]         <1		287		 ჳგ ჳ			
Displacement power factor		20.7		30.3			
THDI, rated power [X]							
######################################	<u> </u>						
MPT efficiency  %  99.90   96.80   97.40   96.80   97.40   9	<u> </u>						
Page							
Max. efficiency  %    97.40   97.40	<u> </u>						
Standby consumption (Night) [W] <1 Standby consumption (Night) [W] <1 StandbarD  Over voltage protection YES  Over current protection YES  DC isolation impedance monitoring YES  Cround fault current monitoring YES  RCD protection Monitoring YES  Safety EMC  Certification Filter  EMC  Certification Forested of Safety EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-6-1 / EN 61000-6-2 / EN							
STANDARD  Over voltage protection YES Over current protection YES Over current protection YES Over current protection YES Over current protection YES OC isolation impedance monitoring YES OC injection monitoring YES OC injection monitoring YES Safety YES EMC EMC EMIC Certification YES  ENCO Certification ASA777  ENVIRONMENT LIMIT  Degree of protection(according to IEC60529) Operating temperature range I°Cl Pumidity I'll On-100 (condensing) Storage temperature [°Cl Typical noise emission [dB]  ENVIRONDE ENTISION AND WEIGHT  Dimensions(WXHXD) [mm] Weight kg] Cooling concept Communication interfaces Communication int			97.40				
TAINDARD  Over voltage protection YES Over current protection YES Over current protection YES Cisolation impedance monitoring YES Cround fault current monitoring YES OC injection monitoring YES CD protection YES Safety IEC62109-1/IEC62109-2 EMC ENC ENC ENCOMEST IN 61000-3-2 / EN 61000-3-3 / EN 61000-3-12 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-3-3 / EN 61000-3-12 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3 / EN 61000-3-3	POWER CONSUMPTION						
Over voltage protection Over current protection Over current protection DC isolation impedance monitoring Ground fault current monitoring CC isolation	Standby consumption (Night) [W]		<1				
Over current protection  DC isolation impedance monitoring Ground fault current monitoring CFOUND FOR THE STATE OF THE STA	STANDARD						
DC isolation impedance monitoring Ground fault current monitoring PYES  DC injection monitoring RCD protection RCD protection Safety EMC EMC EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-3-3 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-3-3 / EN 61000-3-12 / EN 61000-3-	Over voltage protection	YES					
Ground fault current monitoring  DC injection monitoring  RCD protection  Safety  EMC  EMC  EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-12 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-3-3 / EN 61000-3-12 / EN 61000-3-12 / EN 61000-6-2 / EN 61000-6-3 / EN 61000-3-12 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3 / EN 61000-3-12 / EN 61000-3-12 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-1 / EN 61000-6-2	Over current protection	YES					
DC injection monitoring RCD protection Safety IEC62109-1/IEC62109-2 EMC EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-6-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-6-1 / EN 61000-6-2 / EN 6100	DC isolation impedance monitoring	YES					
RCD protection Safety IEC62109-1/IEC62109-2 EMC Certification AS4777  ENVIRONMENT LIMIT  Degree of protection(according to IEC60529) Operating temperature range [°C] Humidity [%] Storage temperature [°C] Typical noise emission [dB]  Dimensions(WxHxD) [mm] Weight[kg] Cooling concept Topology Communication interfaces LCD display  PKS  IEC62109-1/IEC62109-2 EN 61000-3-2 / EN 61000-3-11 / EN 61000-6-1 / EN 61000-6-2 / EN 61000	Ground fault current monitoring	YES					
Safety   IEC62109-1/IEC62109-2     EMC	DC injection monitoring	YES					
EMC EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-6-1 / EN 61000-6-2 / E	RCD protection	YES					
Certification  ENVIRONMENT LIMIT  Degree of protection(according to IEC60529)  Operating temperature range [°C]  Max. operation altitude [m]  Humidity [%]  Storage temperature [°C]  Typical noise emission [dB]  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept  Topology  Communication interfaces  LCD display  MASA4777  IP65  IP65  IP65  IP65  OACA000  IP65  OACA	Safety	IEC62109-1/IEC62109-2					
Degree of protection(according to IEC60529) Operating temperature range [°C] Max. operation altitude [m] Humidity [%] Storage temperature [°C] Typical noise emission [dB] Oimensions(WxHxD) [mm] Weight[kg] Cooling concept Topology Communication interfaces LCD display  IP65  IP6  IP6	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					
Degree of protection(according to IEC60529)  Operating temperature range [°C]  Max. operation altitude [m]  Humidity [%]  Storage temperature [°C]  Typical noise emission [dB]  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept  Topology  Communication interfaces  LCD display  IP65  -25~+60 (derating at 45)  -2000  -2500	Certification		AS4777				
Operating temperature range [°C]  Max. operation altitude [m]  Humidity [%]  Storage temperature [°C]  Typical noise emission [dB]  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept  Topology  Communication interfaces  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-Up Backlight 20*4 character	ENVIRONMENT LIMIT						
Operating temperature range [°C]  Max. operation altitude [m]  Humidity [%]  Storage temperature [°C]  Typical noise emission [dB]  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept  Topology  Communication interfaces  LCD display  Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-Up Backlight 20*4 character	Degree of protection(according to IEC60529)		IP65				
Max. operation altitude [m]  Humidity [%]  Storage temperature [°C]  Typical noise emission [dB]  DIMENSION AND WEIGHT  Dimensions(WxHxD) [mm]  Weight[kg]  Cooling concept  Topology  Communication interfaces  LCD display  Max. operation altitude [m] <a href="mailto:2000"><a href="mailto:2000"></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>							



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

6000 6600/6600 800	7500							
6600/6600	7500							
		9000	10500	12000	13500	15000	6000	7500
	6600/6600	6600/6600	6600/6600	6600/6600	6600/6600	6600/6600	6600	6600
	800	800	1000	1000	1000	1000	1000	1000
600	600	600	600	600	600	600	600	600
12/12	12/12	12/12	12/12	12/12	12/12	12/12	12	12
14/14	14/14	14/14	14/14	14/14	14/14	14/14	14	14
160-750	160-750	160-750	160-900	160-900	160-900	160-900	160-900	160-900
180	180	180	180	180	180	180	180	180
2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	1	1
4000	5000	6000	7000	8000	9000	10000	4000	5000
4400	5500	6600	7700	8800	9900	11000	4400	5500
	3/N/PE, 3/PE, 23	0/400(310-480)				3/N/PE, 3/PE, 230/400(310-480)		
	50/6	0; <u>±</u> 5				50/60;±5		
5.8	7.2	8.7	10.1	11.6	13.0	14.5	5.8	7.2
6.4	8.0	9.6	11.2	12.8	14.3	15.9	6.4	8.0
	0.8leading-	0.8lagging				0.8leading-0.8lagging		
<2						<2		
99.9	999	99 9	99.9	99.9	99.9	999	99.9	99.9
								97.8
								98.3
						< 7		
		<u> </u>						
			YES					
				YES				
				YES				
				YES				
					51154000 5 4 511		7.0.51164000.7.7	
EN			5-5					
	AS4///; VDE4105; G98;	G99; EN50549; CEI0-21			AS4///;	; VDE4105; G98; G99; EN50549;	CEI0-21	
<2000					<2000			
				0~100 (condensing)				
				-25~60				
	<3	5				<35		
	534*419*2	01				534*419*201		
30	30	30	30	30	30	30	28	28
	Natural					Natural		
	Non-isolat	ed		Non-isolated				
RS485/DRM/Pocket WiFi(o	ptional)/Pocket LAN (optional)/Po	ocket GPRS (optional)/Meter (opt	tional)/USB-upgrade	RS485	5/DRM/Pocket WiFi(optional)/Poc	cket LAN (optional)/Pocket GPRS (c	pptional)/Meter (optional)/USB-up	grade
Backlight 16*4 character			Backlight 16*4 character					
	2(1/1) 4000 4400  5.8 6.4  99.9 97.8 98.3	2(1/1) 2(1/1)  4000 5000  4400 5500  3/N/PE, 3/PE, 23  50/6  5.8 7.2  6.4 8.0  0.8leading-  (.)  99.9 99.9  97.8 97.8  98.3 98.3  YE  YE  YE  YE  YE  YE  YE  YE  YE  Y	2(1/1) 2(1/1) 2(1/1) 2(1/1)  4000 5000 6000  4400 5500 6600  3/N/PE, 3/PE, 230/400(310-480)  50/60; ±5  5.8 72 8.7  6.4 8.0 9.6  0.8leading-0.8lagging  <2  999 999 999 97.8 97.8 97.8 97.8 98.3 98.3 98.3   YES YES YES YES YES YES YES YES YES Y	2(1/1)	Autual   A	### ADDRESS OF STATE	2019   2019	March   2019



# 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-IP6
- Multiple protections: Over voltage / under voltage, earth protection, anti-islanding, overload, over temperature and RCD protection, etc.



#### X3-PRO (THREE PHASE)

m 19 1	X3-8.0P	X3-10.0P	X3-12.0P	X3-15.0P		
INPUT (DC)						
Max.PV array power [Wp]	12000	15000	18000	22500		
Max.recommended DC power[W]	A:3200/B:6400	A:4000/B:8000	A:4800/B:9600	A:6000/B:12000		
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]			400(310-480)			
Nominal grid frequency/range [Hz]			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			-0.8lagging	23.3		
THDi, rated power [%]			-0.0taggirig :3			
EFFICIENCY			.5			
		0.0	20			
MPPT efficiency [%]	99.9					
Euro efficiency [%]	97.8					
Max. efficiency [%]		98	3.3			
POWER CONSUMPTION						
Standby consumption (Night) [W]		<	:3			
STANDARD						
Over voltage protection	YES					
Over current protection		Y	ES			
DC isolation impedance monitoring	· ·	Υ	ES			
Ground fault current monitoring		Y	ES			
DC injection monitoring	· ·	Υ	ES			
RCD protection		Y	ES			
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)		IP	65			
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]						
Weight[kg]	32					
Cooling concept	Forced airflow					
Topology	Non-isolated					
Communication interfaces	RS485/DRM/Packet WiFila	ptional)/Pocket LAN (optional		Meter (ontional)/LISR-up/		
SS. IIII GIII GGGGGGGGGGGGGGGGGGGGGGGGGG	10 100/ DIVINI OCKEL WILLIO	·	·	.c.c. (optional) Opp-up		
LCD display		Racklight 16	*4 character			