



X1 MINI



X1 AIR



X1 BOOST



X3



X3

	X1-1.1	X1-1.5	X1-2.0	X1-2.5	X1-3.0	X1-3.3	X1-3.0T	X1-3.3T	X1-3.0T	X1-4.2T	X1-5.0T	ZDNY-TL10000	ZDNY-TL12000	ZDNY-TL15000	ZDNY-TL17000	ZDNY-TL20000	X3-30T	X3-30T
INPUT (DC)																		
Max recommended DC power [W]	1200	1600	2200	2700	3200	3400	3250	3550	4000	4600	5200	10260	12300	15370	17420	20560	36000	43200
Max input DC voltage [V]	400	400	400	600	600	600	600	600	600	600	600	600	600	600	600	600	1000	1000
Max input current [A]	10	10	10	10	10	10	12/12	12/12	12/12	12/12	12/12	A 22/8-11	A 22/8-11	A 22/8-22	A 22/8-22	A 22/8-22	A 34/8-14	A 34/8-14
MPPPT 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	320-800	380-800	350-800	400-800	400-800	480-850	580-850
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	320-800	380-800	350-800	400-800	400-800	480-850	580-850
Number of MPP tracking 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	2/A 3 B 1	2/A 3 B 1	2/A 3 B 3	2/A 3 B 3	2/A 3 B 3	2/A 4 B 4	2/A 4 B 4
OUTPUT (AC)																		
AC nominal power [VA]	1100	1500	2000	2500	3000	3300	3000	3300	3680	4200	4600	10000	12000	15000	17000	20000	30000	36000
Max. AC power [VA]	1100	1500	2000	2500	3000	3300	3000	3300	3680	4200	4600	10000	12000	15000	17000	20000	33000	40000
Nominal AC voltage, range [V]		220/230/240; 180-280			220/230/240; 180-280				220/230/240; 180-280					50; 44-55/60-55-65			3 L/PE 380; 400 +/- 10%; 3 L/N/PE 380; 400 +/- 10%;	3 L/PE 480 +/- 10%; 3 L/N/PE 480 +/- 10%;
AC grid frequency, range [Hz]		50/60; ±5			50/60; ±5				50/60; ±5					3 L/N/PE 230/400; 160-280			50-45-55 / 60-55-65	50-45-55 / 60-55-65
Max. AC current [A]	5.5	7.5	9.5	12	14	15	14	15	16	19	21	16	20	24	25	29	48*3	48*3
Power factor (full load)		0.8 leading - 0.8 lagging			0.8 leading - 0.8 lagging				0.8 leading - 0.8 lagging					0.9 leading - 0.9 lagging			0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging
Total harmonic distortion(THD) [%]		<2			<2				<2					<3				<2
POWER CONSUMPTION																		
Standby power[W]		<10			<10				<2					<10				<7
EFFICIENCY																		
MPPPT efficiency[%]		99.9			99.9				99.9					99.9				99.9
Euro efficiency[%]	99.5	96	96.5		96.8				97.0					97.6				98.2
Max. efficiency[%]		97.1			97.6				97.8					98.2				98.6
SAFETY & PROTECTION																		
Over voltage protection		YES			YES				YES					YES				YES
Over current protection		YES			YES				YES					YES				YES
DC isolation impedance monitoring		YES			YES				YES					YES(optional)				YES
Ground fault current monitoring		YES			YES				YES					YES				YES
DC injection monitoring		YES			YES				YES					YES				YES
RCD protection		YES			YES				YES					YES				YES
Safety		EN62019-1/-2			EN62019-1/-2				IEC62019-1/-2					IEC62019-1/IEC62019-2/IEC61010				IEC62019-1/IEC62019-2/IEC61010
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					EN 61000-3-2/EN 61000-3-3/EN 61000-3-12/EN 61000-6-2/EN 61000-6-3			EN 61000-3-2/EN 61000-3-3/EN 61000-3-12/EN 61000-6-2/EN 61000-6-3	
Certification		GB/T24547/772-2015/VDE4105; EN50438; COC/CEB-21			GB/T24547/772-2015/VDE4105; EN50438; COC				GB/T24547/772-2015/VDE4105; EN50438; COC/VED326					GB/T24547/772-2015/VDE4105; EN50438; COC/IEC62170; IEC62176; IEC61683; IEC60068			NB/T 33504-2013/2/IEC62170; IEC62176; IEC61683; IEC60068	
ENVIRONMENT LIMITS																		
Protection class		IP65			IP65				IP65					IP55				IP65
Operating temperature[°C]		-20~+60(derating at 45)			-20~+60(derating at 45)				-20~+60(derating at 45)					-20~+60 (derating at 45)				-25~+60 (derating at 45)
Humidity[%]		0~95 (no condensation)			0~95 (no condensation)				0~95 (no condensation)					0~95 (non-condensing)				0~95
Altitude[m]		2000			2000				2000					2000				2000
Storage temperature[°C]		-20~+60			-20~+60				-20~+60					-20~+60				-25~60
Noise emission[dB]		<25			<30				<25					<50				<50
DIMENSION & WEIGHT																		
Dimensions(W*H*D) [mm]		248*350*124			322*402*119				339*420*143					513 x 651.5 x 207				660*410*260
Weight[kg]		7			9.5		14.6	14.6	14.6	16.7	16.7	48	48	50.5	50.5	51		60
GENERAL DATA																		
Topology		Transformerless			Transformerless				Transformerless					Transformerless				Transformerless
Communication interface		RS485/WiFi(optional)/DRM/USB			RS485/WiFi(optional)/DRM/USB				RS485/WiFi(optional)/DRM/USB/RF(optional)/Meter(optional)					RS485/RS232/WiFi(optional)/DRM				RS485/ WiFi (optional)/ Ethernet/ DRM
Display		6 LED			11 LED				Backlight 16*4 character					Backlight 128*64 point LCD				4 LED
Standard warranty[year]		5-10			5-10				5-10					5-10				5-10
Cooling type		Natural			Natural				Natural					Forced-cooling				Forced-cooling



X-Phy Hybrid Ready Inverter
(Compatible with SMU)

X-Hybrid Inverter

SOLAX INVERTER

2017 Product Brochure

