



X1 MINI

X1 AIR

X1 BOOST

	X1-0.7	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]	840	1250	1650	2200	2700	3200	3450	3250	3500	4000	4600	5200	
Max. input DC voltage [V]	400	400	400	400	600	600	600	600	600	600	600	600	
Max. input current [A]	10	10	10	10	10	10	10	12/12	12/12	12/12	12/12	12/12	
MPPT voltage range [V]	50-380	55-380	55-380	55-380	100-580	100-580	100-580	125-580	125-580	125-580	125-580	125-580	
Start output voltage [V]	70	70	70	70	120	120	120	150	150	150	150	150	
Number of MPP tracker/strings per MPP tracker	1/1	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]	700	1100	1500	2000	2500	3000	3300	3000	3300	3680	4200	4600	
Max. AC power [VA]	700	1100	1500	2000	2500	3000	3300	3000	3300	3680	4200	5000	
Normal 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]	3.5	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) [%]	<1.5			<2				<2					
POWER CONSUMPTION													
Standby consumption power[W]	<5				<10				<10				
EFFICIENCY													
MPPT efficiency[%]	99.9				99.9				99.9				
Euro efficiency[%]	95	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;EN50438				G83/2;AS4777.2-2015;VDE4105; EN50438; CQC				G83/2;G59/3;AS4777.2-2015;VDE4105; EN50438;CQC;VDE0126				
ENVIRONMENT LIMITS													
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				
DIMENSION & WEIGHT													
Dimensions(W*H*D) [mm]	248*350*124				323*402*119				339*420*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				5-10				5-10				
Cooling type	Natural				Natural				Natural				

*Can be modified without notice.(V2)