

SINCE
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A Lagnuvo Initiative



Solaire X1 ZAP



FEATURES

Superior Performance

- DC Input: 200% oversizing, 20A current, 50V startup voltage
- In-built global MPP scan for higher yield efficiency

Assured Safety & Reliability

- AC/DC built-in Type II SPD (Optional) and I-V curve diagnosis supported
- Optional external RSD (Rapid Shutdown) and integrated DC AFCI protection (Optional)
- In-built export control function

User Friendly Monitoring

- 10s level interval of data update (Optional, new WiFi dongle required)
- Quick and easy configuration (WiFi & APP)

Superb Adaptability

- Home EV Charger and Heat Pump Solution adaptable
- Mass management and broad extension via Datahub
- Master/Slave parallel solution via Modbus supported



	3K	3.3K	3.6K	4K	4.2K	5K
DC INPUT						
Max. PV array input power [Wp]	6000	6600	7200	8000	8000	10000
Max. PV input voltage [V]	600	600	600	600	600	600
Startup voltage [V]	50	50	50	50	50	50
Nominal input voltage [V]	360	360	360	360	360	360
MPP tracker voltage range [V]	40~560	40~560	40~560	40~560	40~560	40~560
No. of MPP trackers / String per MPP tracker	2 / 1					
Max. PV input current[A]	20A					
Isc PV Array Short Circuit current [A]	25A					
AC OUTPUT						
Rated AC output power [W]	3000	3300	3680	4000	4200	5000 ^①
Rated AC output current [A]	13.1	14.4	16	17.4 ^⑥	18.3	21.7
Max. AC output apparent power [VA]	3300	3630	4048 ^④	4000	4620	5000 ^②
Max. AC output current [A]	14.4	15.8	17.6 ^⑤	17.4 ^⑥	20.1	21.7 ^③
Nominal AC voltage / AC voltage range [V] **	220/230/240;90~290					
Nominal AC frequency / AC frequency range [Hz] **	50/60;±5					
Power Factor range	0.8leading~0.8lagging					
THDi (rated power) [%]	<3					
SYSTEM DATA						
Max. Efficiency [%]	98					
Euro. Efficiency [%]	97					
Standby consumption [W] @Night	<3					
Ingress protection	IP66					
Operating ambient temperature range [°C]	-25~60					
Max. operation altitude [m]	4000					
Relative humidity [%]	0~100					
Typical noise emission [dB]	25 ^⑦					
Storage temperature [°C]	-30~70					
Dimensions (W × H × D) [mm]	404×274×146					
Weight [kg]	11					
Cooling concept	Natural cooling					
Communication interfaces	USB/RS485/DRM, Optional: Meter/CT *					
Optional monitoring dongle	Pocket WiFi/LAN/4G					
Display	2 x LED + LCD (16 x 2) / APP					
PROTECTION						
Over / under voltage protection	Yes					
DC isolation protection	Yes					
Monitoring ground fault protection	Yes					
Grid monitoring	Yes					
DC injection monitoring	Yes					
Back feed current monitoring	Yes					
Residual current detection	Yes					
Anti-islanding protection	Yes					
Over temperature protection	Yes					
SPD (DC/AC)	Type II / Type II (Optional)					
Arc-fault circuit interrupter (AFCI)	Optional					
AC auxiliary power supply (APS)	Optional					
DC Switch	Optional					
STANDARD						
Safety	IEC / EN 62109-1 / -2					
EMC	EN61000-6-1 / 2 / 3 / 4, EN61000-3-2 / 3 / 11 / 12					
Certification	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR, PPDS, TOR					

① 5000 (4600 for VDE4105, 4999 for AS4777.2) ② 5000 (4600 for VDE4105, 4999 for AS4777.2) ③ 21.7 (20 for VDE4105) ④ 4048 (3680 For G98/G99, TOR and PPDS) ⑤ 17.6 (16 For G98/G99, TOR and PPDS)

⑥ For models with internal fan(Optional), typical noise emission is 30 dB

* Not included in the package. Please purchase additionally; ** The AC voltage and the frequency range may vary from different country codes.

* V1.4. Information may be subject to modify without notice.650.00029.00

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Solaire X1 ZIP



FEATURES

Upgraded Performance

- DC Input: 200% oversizing, 20A current, 50~550V wider MPPT voltage range
- In-built global MPP scan for higher yields

Optimized Monitoring

- 10s level interval of data update (Optional)
- Multiple interfaces for presenting data

Advanced Safety

- AC/DC built-in Type II SPD (Optional) and I-V curve diagnosis supported
- Support external Rapid Shutdown Device (RSD)
- Optional ARC detection (AFCI)
- Built-in export control function

Flexible Adaptability

- Adapt to Home EV Charger Solution
- Mass management and broad extension via Datahub
- Extendable parallel solution via Modbus supported



	2.0K	2.5K	3.0K	3.3K	3.7K	4.0K
DC INPUT						
Max. PV array input power [Wp]	4000	5000	6000	6600	7400	8000
Max. PV input voltage [V]	450	550	550	550	550	550
Startup voltage [V]	50	50	50	50	50	50
Nominal input voltage [V]	360	360	360	360	360	360
MPP tracker voltage range [V]	40~450	40~550	40~550	40~550	40~550	40~550
No. of MPP trackers / Strings per MPP tracker	1/1					
Max. PV input current [A]	20 A					
Isc PV Array Short Circuit current [A]	25A					
AC OUTPUT						
Rated AC output power [W]	2000	2500	3000	3300	3700	4000
Rated AC output current [A]	8.7	10.9	13.1	14.4	16.1	17.4
Max. AC output apparent power [VA]	2200	2750	3300	3300	3700	4000
Max. AC output current [A]	10	12.5	15	15	18.5	20
Nominal AC voltage/AC voltage range [V]**	220/230/240;90~290			220/230/240;90~285		
Nominal AC frequency/AC frequency range [Hz]**	50/60;±5					
Power Factor range	0.8 leading~0.8 lagging					
THDi (Rated power) [%]	<3					
SYSTEM DATA						
Max. efficiency [%]	98	98	98	98	98	98
Euro. efficiency [%]	97	97	97	97	97	97
Standby consumption [W] @Night	<1					
Ingress protection	IP66					
Protection class	Class I					
Over voltage category	II (DC),III (AC)					
Operating ambient temperature range [°C]	-25~60					
Max. operation altitude [m]	<4000					
Humidity [%]	0~100					
Typical noise emission [dB]	25					
Storage temperature [°C]	-30~70					
Dimensions (W×H×D) [mm]	290x206x120					
Weight [kg]	5.2	5.5	5.5	5.5	5.5	5.5
Cooling concept	Natural cooling					
Communication interfaces	USB/RS485/DRM, Optional: Meter/CT *					
Optional monitoring dongle	Pocket WiFi/LAN/4G					
Display	2 x LED + LCD(16 x 2) / APP					
PROTECTION						
Over/under voltage protection	Yes					
DC isolation protection	Yes					
Monitoring ground fault protection	Yes					
Grid monitoring	Yes					
DC injection monitoring	Yes					
Back feed current monitoring	Yes					
Residual current detection	Yes					
Anti-islanding protection	Yes					
Over temperature protection	Yes					
SPD (DC/AC)	Type II / Type II (Optional)					
Arc-fault circuit interrupter (AFCI)	Optional					
AC auxiliary power supply (APS)	Optional					
DC Switch	Optional					
STANDARD						
Safety	EN/IEC62109-1/2					
EMC	EN61000-6-1/2/3/4; EN61000-3-2/3/11/12					
Certification	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR					

* Not included in the package. Please purchase additionally.

** The AC voltage and the frequency range may vary from different country codes

* V1.3. Information may be subject to modify without notice.650.00030.00

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Solaire X3 ZOOM



FEATURES

Safe

- IP66 protection
- Integrated SPD protection on both AC&DC

High-efficiency

- Maximum efficiency is up to 98.3%
- Low startup voltage, ultrawide MPPT voltage range
- 200% oversizing, 110% overloading output (Except 15kW model)
- In-built global MPP scan for higher yield efficiency

Economic

- Ultra-high power density
- Max. MPP current per string is 16A, support high power solar panels

Smart

- Built-in export power control
- Remote setting and upgrading
- 24h monitoring and maintenance (Optional)
- Intelligent load management - heat pump (Adapter Box required)
- Multiple monitoring methods supported, Optional: WiFi/LAN/4G

	5K	6K	8K	10K	10KW	12K	15K
DC INPUT							
Max. PV array input power [Wp]	10000	12000	16000	20000	20000	24000	30000
Max. PV input voltage [V]	1000	1000	1000	1000	1000	1000	1000
Startup voltage [V]	150	150	150	150	150	150	150
Nominal input voltage [V]	640	640	640	640	640	640	640
MPP tracker voltage range [V]	120~980	120~980	120~980	120~980	120~980	120~980	120~980
No. of MPP track ers/Strings per MPP tracker	2(1/1)	2(1/1)	2(1/1)	2(1/1) ^①	2(1/1)	2(2/1)	2(2/1)
Max. PV input current[A]	16/16	16/16	16/16	16/16 ^①	16/16	32/16	32/16
Isc PV Array Short Circuit current [A]	20/20	20/20	20/20	20/20 ^①	20/20	40/20	40/20
AC OUTPUT							
Rated AC output power [W]	5000	6000	8000	10000	10000	12000	15000
Rated AC output current [A]*	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	15.2/14.5	18.2/17.4	22.7/218
Max. AC output appar ent power [VA]	5500	6600	8800	11000	10000	13200	15000
Max. AC output curr ent [A]	8.0	9.6	128	160	15.2	19.1	22.7
Nominal AC voltage/AC voltage range [V]**	220/380V, 230/400V, 3/(N)/PE; (95-285V)*						
Nominal AC frequency/AC frequency range [Hz]**	50/60; ±5						
Power Factor range	0.8 leading-0.8 lagging						
THDi (Rated power) [%]	<3						
SYSTEM DATA							
Max. efficiency [%]	98.3						
Euro efficiency [%]	97.8						
Standby consumption (night) [W]	<3						
Ingress protection	IP66						
Operating ambient temperature range [°C]	-30~+60(Derating above 45)						
Max. operation altitude [m]	4000(Derating above 3000)						
Relative humidity [%]	0~100						
Typical noise emission [dB]	<30	<30	<45	<45	<45	<50	<50
Storage temperature [°C]	-30~+60						
Dimensions (W×H×D) [mm]	342*434*144.5					342*434*156	
Weight [kg]	155	155	17	17	17	18	18
Cooling concept	Natural cooling				Smart fan cooling		
Communication interfaces	USB/RS485/DRM, Optional: Meter						
Optional monitoring dongle	Pocket WiFi / LAN / 4G						
Display	2 x LED + LCD(16 x 2) / APP						
PROTECTION							
Over/under voltage pr otection	YES						
DC isolation pr otection	YES						
DC reverse protection	YES						
Grid monitoring	YES						
DC injection monitoring	YES						
Back feed curr ent monitoring	YES						
Residual current detection	YES						
Anti-islanding protection	YES						
Over temperature protection	YES						
SPD (DC/AC)	Type II / Type II (Optional)						
Arc-fault circuit interrupter(AFCI)	Optional						
AC auxiliary power supply(APS)	Optional						
STANDARD							
Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004						
EMC	IEC/EN 61000; NB/T 32004						
Certification	VDE4105, EN 50549, AS 4777.2, VDE4105, G98/G99, IEC 61727, IEC 62116, IEC 61683, IEC 60068, EN 50530, NB/T 32004						

① Input 1 is optional with two strings(Max. input current: 32A, Max. short circuit current: 40A)

* The two data refer to different grid voltage 220V/230V

** The AC voltage and the frequency range may vary from different country codes

*V2.6. Information may be subject to modify without notice. 650.00003.00