

SINCE
1998

solaire
A Lagnuvo Initiative



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 trackers/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	22.7/21.8
Max. AC output apparent power [VA]	5500	6600	8800	11000	10000	13200	15000
Max. AC output current [A]	8.0	9.6	12.8	16.0	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 protection	YES						
DC isolation protection	YES						
DC reverse 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						
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