

SINCE  
1998

# solaire

A Lagnuvo Initiative



## SOLAIRE X3 LITE



## FEATURES

### Safe

- SPD type II protection on both AC&DC
- ARC protection (Optional)
- IP66 protection

### High-efficiency

- Maximum efficiency is up to 98.5%
- Low startup voltage, ultrawide MPPT voltage range
- 150% DC oversizing, 110% AC overloading output
- In-built global MPP scan for higher yield efficiency

### Economic

- Ultra-high power density
- Maximum 32A DC input current per MPPT tracker, support high power solar panels
- Up to 3 MPPTs, 2 strings per MPPT
- Support Master/Slave parallel function

### Smart

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

	8K	10K	12K	15K	17K	20K	25K	30K	
<b>DC INPUT</b>									
Max. PV array input power [Wp]	12000	15000	18000	22500	25500	30000	37500	45000	
Max. PV input voltage [V]	1100	1100	1100	1100	1100	1100	1100	1100	
Start startup voltage [V]	200	200	200	200	200	200	200	200	
Nominal input voltage [V]	650	650	650	650	650	650	650	650	
MPP tracker voltage range [V]	160~980								
No. of MPP trackers	2	2	2	2	2	2	3	3	
Strings per MPP tracker	2	2	2	2	2	2	2	2	
Max. PV input current [A]	32/32	32/32	32/32	32/32	32/32	32/32	32/32/32	32/32/32	
Isc PV Array Short Circuit current [A]	40/40	40/40	40/40	40/40	40/40	40/40	40/40/40	40/40/40	
<b>AC OUTPUT</b>									
Rated AC output power [kW]	8000	10000 <sup>①</sup>	12000	15000	17000	20000	25000	30000 <sup>②</sup>	
Rated AC output current [A]*	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	25.8/24.7	30.3/29	37.9/36.3	45.5/43.5	
Max. AC output apparent power [VA]	8800	11000 <sup>①</sup>	13200	16500	18700	22000	27500	30000 <sup>②</sup>	
Max. AC output current [A]	13.2	16	19.3	24.2	27.5	33.6	41.8	45.5	
Nominal AC voltage/AC voltage range [V]**	220/380V, 230/400V, 3/N/PE, 3/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								
<b>SYSTEM DATA</b>									
Max. efficiency [%]	98.20	98.20	98.20	98.30	98.30	98.30	98.50	98.50	
Euro efficiency [%]	97.70	97.70	97.70	97.80	97.80	97.80	98.00	98.00	
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]	<35	<35	<35	<55	<55	<55	<55	<58	
Storage temperature [°C]	-30~+60								
Dimensions (W×H×D) [mm]	482×417×181								
Weight [kg]	24.5				26			28	
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								
<b>PROTECTION</b>									
Over/under voltage protection	YES								
DC isolation protection	YES								
Grid monitoring	YES								
DC injection monitoring	YES								
Residual current detection	YES								
Anti-islanding protection	YES								
Over Temp protection	YES								
SPD (DC/AC)	Type II / Type II								
AC auxiliary power supply (APS)	Optional								
Arc-fault circuit interrupter (AFCI)	Optional								
<b>STANDARD</b>									
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; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004								

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

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

①9999 for AS4777.2 ②29999 for AS4777.2

\*V2.5. Information may be subject to modify without notice. 650.00004.00