

SINCE  
1998

**solaire**  
A Lagnuvo Initiative



## SOLAIRE X3 PRO



## FEATURES

### Intelligence For Easy Maintenance And Economy

- Built-in export power control
- Remote setting and upgrading
- Smart I-V Curve Diagnosis supported
- Aluminium AC cable connection available
- Fuse free design with smart string current monitoring
- Night-time reactive power compensation
- 24 hours operation monitoring (Optional)
- Power line communication (PLC) (Optional)
- Smart air cooling technique results in long lifetime of fans
- Advanced heat dissipation technology makes the system more than 10% lighter and smaller

### Safety & Reliability

- IP66 protection level
- AFCI protection (Optional)
- Both AC&DC SPDs(Type II) inside, Type I+II SPD is optional

### More Energy Harvest

- Maximum efficiency 98.4%
- 180-1000Vdc MPPT voltage range
- Maximum 6 MPPTs, 2 strings per MPP tracker
- 150% PV oversizing input, 110% overloading output
- Maximum 32A MPPT current

	40K	50K	60K
<b>DC INPUT</b>			
Max. PV array input power [kWp]	60	75	90
Max. PV input voltage [V]		1100	
Startup voltage [V]		200	
Nominal input voltage [V]		600	
MPP tracker voltage range [V]		180~1000	
No. of MPP trackers	4	5	6
Strings per MPP tracker	2	2	2
Max. PV input current per MPPT [A]		32	
Isc PV Array Short Circuit current per MPPT [A]		46	
<b>AC OUTPUT</b>			
Rated AC output power [kW]	40	50	60
Rated AC output current [A]*	60.6 / 58	75.8 / 72.5	90.9 / 87
Max. AC output apparent power [kVA]	44	55	66
Max. AC output current [A]*	66.7 / 63.8	83.3 / 79.7	100 / 95.7
Nominal AC voltage [V]		220/380V, 230/400V, 3/N/PE, 3/PE	
AC voltage range [V]**		304~460	
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 [%]		98.4	
Euro. efficiency [%]		98.1	
Standby consumption [W] @Night		<2	
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	
Dimensions [W×H×D] [mm]		630*521*286	
Weight [kg]	44	44.5	45.5
Cooling concept		Smart fan cooling	
Communication interfaces		RS485 / USB / DRM / PLC(Optional)	
Optional monitoring dongle		Pocket WiFi / LAN / 4G	
Display		LCD (16×2, optional) / LED×4	
<b>PROTECTION</b>			
Over/under voltage protection		YES	
Over current protection		YES	
DC isolation protection		YES	
Grid monitoring		YES	
DC injection monitoring		YES	
Residual current detection		YES	
Anti-islanding protection		YES	
String fault detection		YES	
Over temperature protection		YES	
SPD (DC/AC)		Type II / Type II	
Arc-fault circuit interrupter (AFCI)		Optional	
AC auxiliary power supply (APS)		Optional	
Power line communication (PLC)		Optional	
<b>STANDARD</b>			
Safety		IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004	
EMC		EN/IEC 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

\*V2.6. Information may be subject to modify without notice. 650.00002.00