



NEW FROM SOLAX

X1-Lite-LV



X1-Lite-LV

8.0kW/10.0kW/12.0kW

Features

High-efficiency

- 200% PV oversized and up to 110% AC output
- 200% peak EPS apparent power, 10 s
- Built-in shadow tracking

Economic

- Max. DC input current 16A, support for high power solar panel
- Low start up voltage brings longer operation time

Intelligent

- Single unit UPS-level switcting time < 4 ms
- CT compatible, loads respond within 0.3 s
- Smart loads management
- Max. 10pcs parallel for on-grid and off-grid operation^①
- Max. charging / discharging current of 250 A
- Generator compatible^②

Safe

- Battery terminal temperature detection
- IP65 protection degree
- Integrated SPD
- AFCI protection (optional)

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X1-Lite-8.0-LV

X1-Lite-10.0-LV

X1-Lite-12.0-LV

DC INPUT

Max. PV Input Power [Wp]	16000	20000	24000
Max. PV Input Voltage [V]		600	
Start Output Voltage [V]		110	
Nominal Input Voltage [V]		360	
Operating Voltage Range [V]		50 ~ 550	
MPPT Voltage Range [V]		50 ~ 550	
No. of MPPT / Strings per MPPT	2 (2 / 2)	2 (2 / 2)	3 (2 / 2 / 2)
Max. Input Current [A]	32 / 32	32 / 32	32 / 32 / 32
Max. Short Circuit Current [A]	40 / 40	40 / 40	40 / 40 / 40

AC INPUT & OUTPUT

Nominal AC Output Power [W]	8000	10000	12000
Max. AC Output Apparent Power [VA]	8800	11000	13200
Max. AC Output Current [A]	40	50	60
Max. AC Input Apparent Power [VA]	12650	14950	18400
Max. AC Input Current [A]	55	65	80
Nominal AC voltage [V], Frequency [Hz]	L / N / PE, 220 / 230 / 240, 50 / 60		
Displacement Power Factor	0.8 leading to 0.8 lagging		
THDi (rated power) [%]	< 3		

BATTERY DATA

Battery Type	Lithium / Lead-Acid		
Battery Voltage Range [V]	40 ~ 60		
Nominal Battery Voltage [V]	48		
Max. Charging / Discharging Current [A]	190	220	250

EPS OUTPUT (WITH BATTERY)

Nominal Output Apparent Power [VA]	8000	10000	12000
Peak Apparent Power [VA, s] ^①	16000, 10	20000, 10	32000, 10
Nominal Output Current [A]	36.4	45.5	54.5
Nominal Voltage [V], Frequency [Hz]	230, 50 / 60		
Switch Time [ms]	< 4		
THDv (linear load) [%]	< 2		

SYSTEM DATA

MPPT Efficiency [%]	> 99.9		
Max. Efficiency [%]	97.6		
Euro. Efficiency [%]	97.0		
Self Consumption(night) [W]	< 10		

ENVIRONMENT LIMIT

Degree of Protection	IP65		
Operating Temperature Range [°C]	-25 ~ +60 (derating above +45)		
Relative Humidity [%]	4 ~ 100 (condensing)		
Max. Operation Altitude [m]	< 3000		
Storage Temperature range [°C]	-25 ~ +70		
Noise Emission(typical) [dB]	< 45		

GENERAL

Dimensions(WxHxD) [mm]	652.5 x 462.5 x 259.8		
Net Weight [kg]	37.4		
Cooling Concept	Smart Cooling		
Topology	Transformerless for PV Side / HF for Battery Side		
HMI / Communication Interfaces	LED + LCD / CAN, RS485, CT, Meter, USB, NTC, WiFi+Lan		
Warranty [years]	5		

STANDARD

Safety	EN IEC 62109-1 / -2		
EMC	BS EN 50065-1		
Certification	NRS 097-2-1, IEC 61727, IEC 62116, PEA, MEA, BIS		

① To be released in Q2 2024;
 ② To be released in Q3 2024;
 ③ Depend on PV and battery capacity.

*V1.0 Information may be subject to modify without notice.