



# 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

- 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<sup>①</sup>
- Max. charging / discharging current of 250 A
- Generator compatible<sup>②</sup>

#### 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 Range [V]		50 ~ 550	
MPPT Voltage Range [V]		50 ~ 550	
No. of MPPT / Strings per MPPT	2 / PV1: 2 ; PV2: 2	2 / PV1: 2 ; PV2: 2	3 / PV1: 2 ; PV2: 2; PV3: 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] <sup>③</sup>	16000 , 10	20000 , 10	32000 , 10
Nominal Output Current [A]	36.4	45.5	54.5
Nominal Voltage [V], Frequency [Hz]		220/230 (Default), 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 [%]		0 ~ 100 (condensing)	
Max. Operation Altitude [m]		< 3000	
Storage Temperature range [C]		-25 ~ +70	
Noise Emission(typical) [dB]		< 45	

### GENERAL

Dimensions(WxHxD) [mm]		631*431*259.8	
Net Weight [kg]		35	
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.  
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