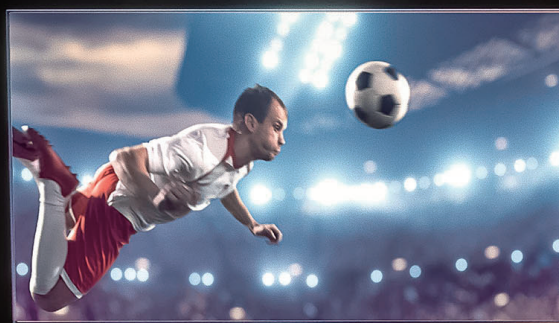




NEW FROM SOLAX

X1-HYB-LV



X1-HYB-LV

3.0kW/3.7kW/4.0kW
4.6kW/5.0kW/6.0kW

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 < 10 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 120 A
- Generator compatible^②

Safe

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

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X1-HYB-LV

X1-HYB-3.0-LV X1-HYB-3.7-LV X1-HYB-4.0-LV X1-HYB-4.6-LV X1-HYB-5.0-LV X1-HYB-6.0-LV

DC INPUT

Max. PV array power [Wp]	6000	7360	8000	9200	10000	12000
Max. PV input power (PV1+PV2) [Wp]	4500	5500	6000	6900	7500	9000
Max. PV input voltage [V]	550					
Start output voltage [V]	110					
Nominal input voltage [V]	360					
MPPT voltage range [V]	80 ~ 520					
No. of independent MPPT / strings per MPPT	2 / PV1: 1 ; PV2: 1					
Max. input current [A]	16 / 16					
Max. short circuit current [A]	20 / 20					

AC INPUT & OUTPUT

Nominal AC output power [W]	3000	3680	4000	4600	5000	6000
Max. AC output apparent power [VA]	3300	3680	4400	4600 (Germany 4600)	5000	6000
Max. AC output current [A]	15	16	20	20.9 (Germany 20)	22.7	27.3
Max. AC input apparent power [VA]	6000	7360	8000	9200	9200	9200
Max. AC input current [A]	26.1	32	34.8	40	40	40
Nominal voltage [V], frequency [Hz]	220 / 230 / 240, 50 / 60					
Displacement power factor	0.8 leading ~ 0.8 lagging					
THDi (rated power) [%]	< 3					

BATTERY DATA

Battery type	Lithium [®] / Lead-Acid	
Max. charging / discharging current [A]	75	120
Battery voltage range [V]	40 ~ 60	
Nominal battery voltage [V]	48	

EPS OUTPUT (WITH BATTERY)

Nominal output apparent power [VA]	3000	3680	4000	4600	5000	6000
Peak apparent power [VA, s] ^①	6000, 10	7360, 10	8000, 10	9200, 10	10000, 10	12000, 10
Nominal output current [A]	13	16	17.4	20	21.7	26.1
Nominal voltage [V], frequency [Hz]	230, 50 / 60					
Switch time [ms]	< 10					

Efficiency

MPPT Efficiency [%]	> 99.9					
Max. efficiency [%]	97.6					
Euro. efficiency [%]	97.0					

POWER CONSUMPTION

Self consumption (night) [W]	Standby < 40, Shutdown < 10					
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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		
Noise emission(typical) [dB]	< 39		< 50
Storage temperature [°C]	-25 ~ +70		

GENERAL

Dimensions (WxHxD) [mm]	397 x 490 x 201	
Net weight [kg]	16.5	17.3
Cooling concept	Natural	Smart cooling
Topology	Transformerless for PV side / HF for battery side	
HMI Interface	LED + LCD	
Communication interfaces	CAN, RS485, CT, Meter, USB, NTC, WiFi, LAN, 4G (Optional), WiFi+Lan (Optional), WiFi+4GM (Optional)	
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 Q3 2023;

② & ③ To be released in Q4 2023;

④ Depend on PV and battery capacity.