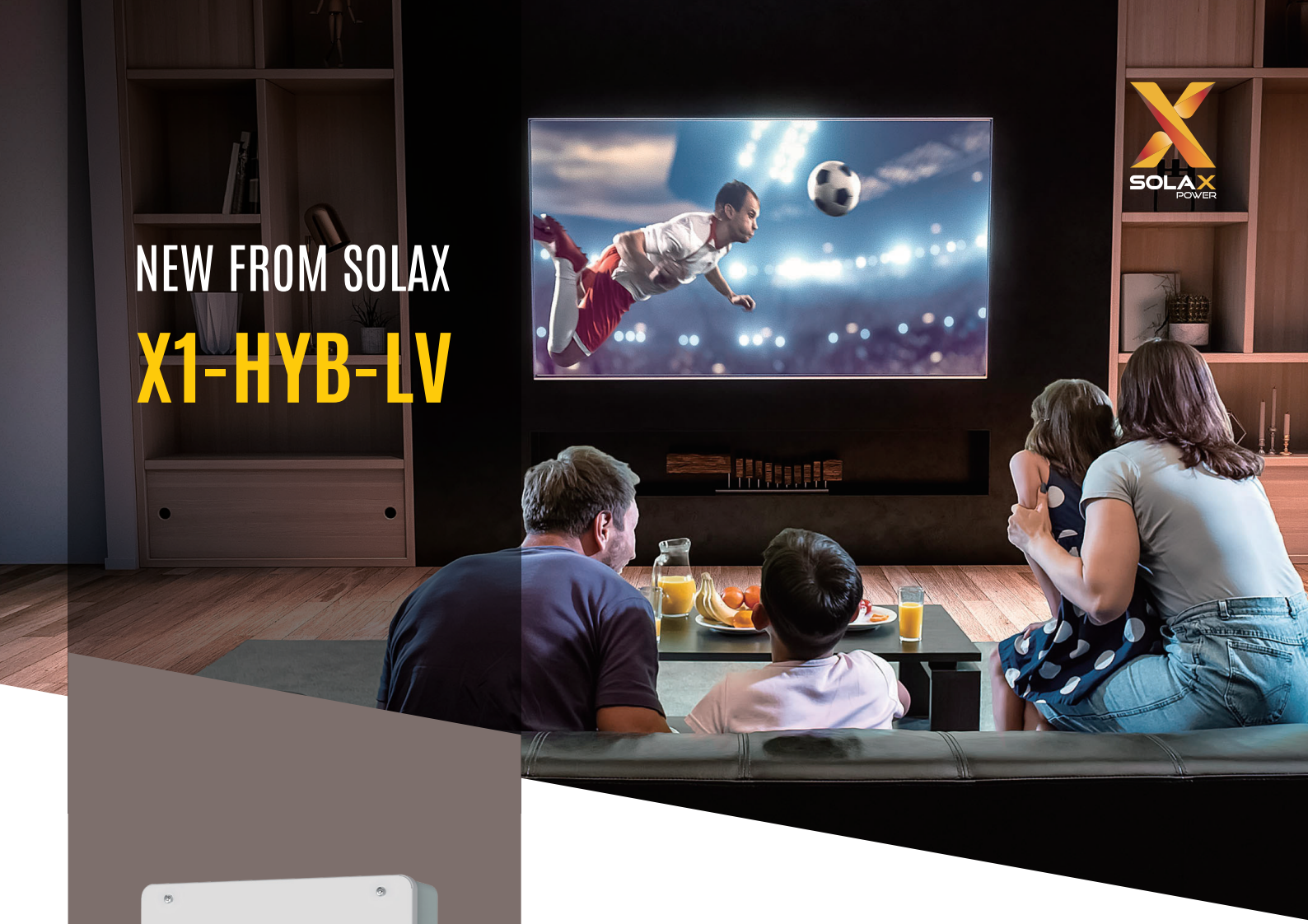
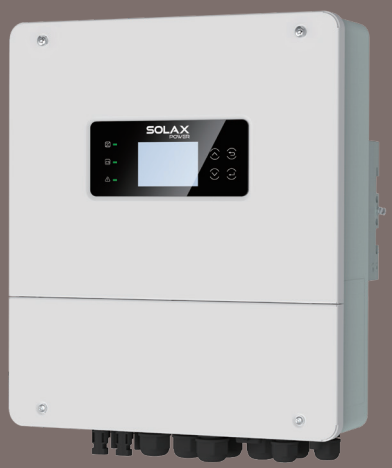


# NEW FROM SOLAX

# 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 overload 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 operation①
- Max. charging / discharging current of 120 A
- Generator compatible②

### Safe

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


info@solaxpower.com
service@solaxpower.com

Contact Us More Information

www.solaxpower.com
Global: +86 571-56260008
AU: +61 1300 476529
UK: +44 2476 586998
DE: +49 6142 4091664
NL: +31 (0) 852 737932

# 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 | Lithium③ / 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]④ | 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 | | | | | |
| **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, WiFi, LAN, 4G (Optional), USB , NTC | | | | | |
| **STANDARD** | | | | | | |
| Safety | IEC62109-1, ICE62109-2 | | | | | |
| EMC | EN / IEC 61000-6-1 / 2 / 3 / 4, EN / IEC 61000-3-2 / 3, EN / IEC 61000-3-11 / 12 | | | | | |
| Certification | NRS 097-2-1, IEC 61727, IEC 62116, INMETRO, PEA, MEA, BIS, EN50549, VDE4105, VDE0126, G98, G99 | | | | | |

① To be released in Q3 2023;
② & ③ To be released in Q4 2023;
④ Depend on PV and battery capacity.

**V1.2. Information may be subject to modify without notice.*