



NEW FROM SOLAX

X1-HYBRID G4



Features

High-efficient

- 200% PV oversized and up to 110% AC overload output
- Higher efficiency on charging and discharging, up to 97.0%
- Built-in shadow tracking function

Economic

- 16A DC input current, support high power solar panel
- Up to 150% PV input
- Store the surplus energy from PV to battery
- Low start output voltage makes inverter longer working time
- Less energy loss on battery to inverter

Intelligent

- Up to 120% EPS output for 1h
- Switchover time <10ms
- Quick configuration with U-disk
- Lithium-ion & Lead-acid battery compatible
- CT compatible, loads respond within 0.3s
- Intelligent loads management (e.g., Heat pump)
- On & Off-grid parallel function, up to 15kW
- 5 work modes, 2 charging periods available
- VPP ready, ancillary service in power market

Safe

- IP65 protection level
- Integrated SPD

X1-Hybrid G4

3.0kW/3.7kW/4.6kW/
5.0kW/6.0kW/7.5kW

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X1-HYBRID G4 (SINGLE-PHASE)

X1-HYBRID-3.0-D X1-HYBRID-3.7-D X1-HYBRID-4.6-D X1-HYBRID-5.0-D X1-HYBRID-6.0-D X1-HYBRID-7.5-D
X1-HYBRID-3.0-M X1-HYBRID-3.7-M X1-HYBRID-4.6-M X1-HYBRID-5.0-M X1-HYBRID-6.0-M X1-HYBRID-7.5-M

DC INPUT

| | | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| Max. PV array power [Wp] | 6000 | 7400 | 9200 | 10000 | 12000 | 15000 |
| Max. PV input power ^① (PV1+PV2) [Wp] | 4500 | 5500 | 6900 | 7500 | 9000 | 10000 |
| Max. PV input voltage [V] | 600 | 600 | 600 | 600 | 600 | 600 |
| Start output voltage [V] | 90 | 90 | 90 | 90 | 90 | 90 |
| Nominal input voltage [V] | 360 | 360 | 360 | 360 | 360 | 360 |
| MPPT voltage range [V] | 70 ~ 550 | 70 ~ 550 | 70 ~ 550 | 70 ~ 550 | 70 ~ 550 | 70 ~ 550 |
| No. of MPPT trackers / Strings per MPP tracker | 2 (1/1) | 2 (1/1) | 2 (1/1) | 2 (1/1) | 2 (1/1) | 2 (1/1) |
| Max. input current (input PV1 / input PV 2) [A] | 16 / 16 | 16 / 16 | 16 / 16 | 16 / 16 | 16 / 16 | 16 / 16 |
| Max. short circuit current (input PV1 / input PV 2) [A] | 20 / 20 | 20 / 20 | 20 / 20 | 20 / 20 | 20 / 20 | 20 / 20 |

AC INPUT & OUTPUT

| | | | | | | |
|------------------------------------|---------------------------|------|---------------------------------------|--|------|------|
| Nominal AC output power [W] | 3000 | 3680 | 4600 | 5000 <small>(Germany 4600, AU 4999)</small> | 6000 | 7500 |
| Max. AC output apparent power [VA] | 3300 | 3680 | 4999 <small>(Germany 4600)</small> | 5500 (4600 for VDE4105, 4999 for AS4777) | 6600 | 7500 |
| Max. AC output current [A] | 14.4 | 16 | 21.7 <small>(Germany 20)</small> | 23.9 <small>(Germany 20, AU 21.7)</small> | 28.6 | 32.6 |
| Max. AC input apparent power [VA] | 6300 | 7360 | 9200 | 9200 | 9200 | 9200 |
| Max. AC input current [A] | 27.4 | 32 | 40 | 40 | 40 | 40 |
| Nominal AC voltage [V] | 230 / 240 | | | | | |
| Nominal grid frequency [Hz] | 50 / 60 | | | | | |
| Displacement power factor | 0.8 leading ~ 0.8 lagging | | | | | |
| THDi (rated power) [%] | <2 | | | | | |

BATTERY DATA

| | | | | | | |
|--|---|--|--|--|--|--|
| Battery type | Lithium-ion battery / Lead-acid Battery | | | | | |
| Battery voltage range [V] | 80 ~ 480 | | | | | |
| Max. continuous charge / discharge current [A] | 30 | | | | | |

EPS (OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)

| | | | | | | |
|-------------------------------------|--------------|----------|----------|----------|-------------|------|
| Nominal output power [W] | 3000 | 3680 | 4600 | 5000 | 6000 | 7500 |
| Peak apparent power [VA] | 3600, 1h | 4416, 1h | 5520, 1h | 6000, 1h | 7200, 10min | 7500 |
| Max. continuous current [A] | 13 | 16 | 21.7 | 21.7 | 26.1 | 32.6 |
| Nominal voltage [V]; Frequency [Hz] | 230; 50 / 60 | | | | | |
| Switch time [ms] | <10 | | | | | |
| Parallel operation | YES | | | | | |

SYSTEM DATA

| | | | | | | |
|--|--------------------------------|--|--|--|--|--|
| Max. efficiency [%] | 97.6 | | | | | |
| Euro. efficiency [%] | 97.0 | | | | | |
| Battery charge / discharge efficiency [%] ^② | 97.0 / 97.0 | | | | | |
| Degree of protection | IP65 | | | | | |
| Operating temperature range [°C] | -35 ~ +60 (Derating above +45) | | | | | |
| Max. operation altitude [m] | <3000 | | | | | |
| Relative humidity [%] | 0 ~ 100 | | | | | |
| Typical noise emission [dB] | <30 | | | | | |
| Storage temperature [°C] | -40 ~ +65 | | | | | |
| Dimensions (WxHxD) [mm] | 482x417x181 | | | | | |
| Net weight [kg] | 24 | | | | | |
| Cooling concept | Nature cooling | | | | | |
| Communication interfaces | Smart cooling | | | | | |

POWER CONSUMPTION

| | | | | | | |
|----------------------------------|----------------------------------|--|--|--|--|--|
| Internal consumption (night) [W] | <17W for standby, <2.7W for idle | | | | | |
|----------------------------------|----------------------------------|--|--|--|--|--|

STANDARD

| | | | | | | |
|---------------|---|--|--|--|--|--|
| Safety | EN/IEC62109-1/-2 | | | | | |
| EMC | EN61000-6-1/2/3/4; EN61000-3-2/3/11/12 | | | | | |
| Certification | VDE4105, G99, G98, AS4777, EN50549, CEI 0-21, IEC61727, RD1699, NRS 097-2-1, PEA/MEA, VFR2019, C10/11 | | | | | |

①: Indicates that all model single PV1 & PV2 input power upper limit is 5000 W. ["Max. PV input power^① (PV1+PV2)" restriction takes precedence].

②: PV to BAT Max. efficiency 97.0%, BAT to AC Max. efficiency 97.0%.