

X1-MINI

S: Single MPPT

D: With DC switch N: Without DC switch

SINGLE-PHASE
ON-GRID INVERTER

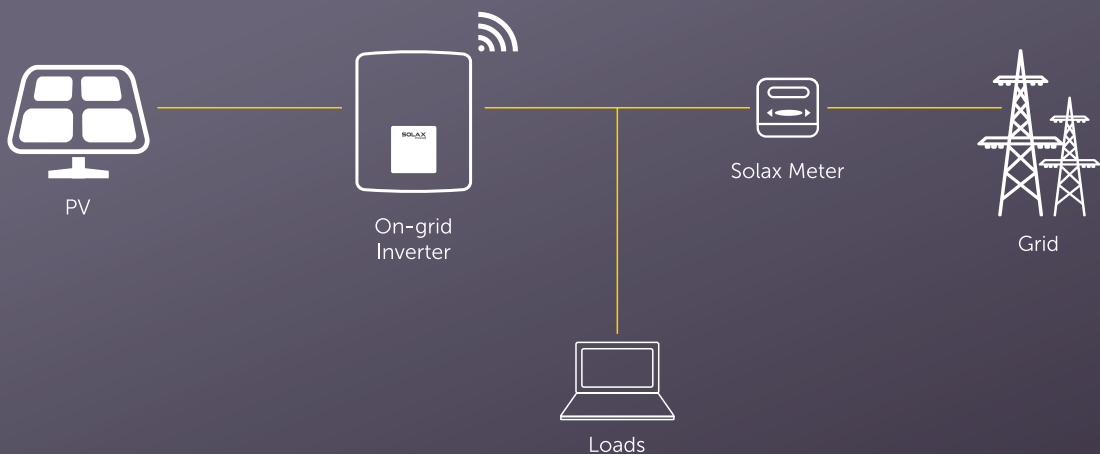
0.6~3.6kW



Features

- Small and light
- Max. DC input 14A
- AC/DC built in SPD
- As low as 45V grid-connected PV voltage
- Remote upgrade and control
- Wider power section
- Zero injection supported

SOLUTION DESIGN



X1-MINI

SINGLE-PHASE

X1-0.6-S-D(L) X1-0.7-S-D(L) X1-1.1-S-D(L) X1-1.5-S-D(L) X1-2.0-S-D(L) X1-2.5K-S-D(L) X1-3K-S-D(L) X1-3.3K-S-D(L) X1-3.6K-S-D(L)
X1-0.6-S-N(L) X1-0.7-S-N(L) X1-1.1-S-N(L) X1-1.5-S-N(L) X1-2.0-S-N(L) X1-2.5K-S-N(L) X1-3K-S-N(L) X1-3.3K-S-N(L) X1-3.6K-S-N(L)

DC INPUT

| | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Max. PV array input power [Wp] | 900 | 1050 | 1650 | 2250 | 3000 | 3750 | 4500 | 4950 | 5400 |
| Max. PV input voltage [V] | 450 | 450 | 450 | 450 | 450 | 550 | 550 | 550 | 550 |
| Startup voltage [V] | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Nominal input voltage [V] | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 |
| MPP tracker voltage range [V] | 45~430 | 45~430 | 45~430 | 50~430 | 50~430 | 55~530 | 55~530 | 55~530 | 55~530 |
| No. of MPP trackers/Strings per MPP tracker | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Max. input current(input A/input B) [A] | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Max. short circuit current(input A/input B) [A] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |

AC OUTPUT

| | | | | | | | | | |
|--|-------------------------|------|------|------|------|-------|-------|------|------|
| Nominal AC output power [W] | 600 | 700 | 1100 | 1500 | 2000 | 2500 | 3000 | 3300 | 3680 |
| Nominal AC output current [A] | 2.61 | 3.04 | 4.78 | 6.52 | 8.70 | 10.80 | 13.04 | 14.3 | 16 |
| Max. AC output apparent power [VA] | 660/600 for VDE4105 | 770 | 1210 | 1650 | 2200 | 2750 | 3300 | 3300 | 3680 |
| Max. AC output current [A] | 2.9 | 3.3 | 5.3 | 7.2 | 9.6 | 11.9 | 14.3 | 14.3 | 16 |
| Nominal AC voltage [V] | 220/230/240;180~280 | | | | | | | | |
| Nominal grid frequency/Grid frequency range [Hz] | 50/60;±5 | | | | | | | | |
| Displacement power factor | 0.8 leading~0.8 lagging | | | | | | | | |
| THDi (rated power) [%] | <3 | | | | | | | | |

SYSTEM DATA

| | | | | | | | | | |
|----------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Max. efficiency [%] | 98.00 | 98.00 | 98.00 | 98.00 | 98.00 | 98.00 | 98.00 | 98.00 | 98.00 |
| Euro. efficiency [%] | 95.00 | 95.00 | 95.50 | 96.00 | 96.50 | 96.50 | 96.50 | 96.50 | 96.50 |
| Standby consumption [W] @Night | <1 | | | | | | | | |
| Ingress protection | IP66 | | | | | | | | |
| Operating temperature range [°C] | -25~+60 (derating at 45) | | | | | | | | |
| Max. operation altitude [m] | ≤2000 | | | | | | | | |
| Humidity [%] | 0~100(condensation) | | | | | | | | |
| Typical noise emission [dB] | <25 | | | | | | | | |
| Storage temperature [°C] | -30~+70 | | | | | | | | |
| Dimensions(WxHxD) [mm] | 267*328*126 | | | | | | | | |
| Weight [kg] | 6 | 6 | 6 | 6 | 6 | 8.3 | 8.3 | 8.3 | 8.3 |
| Cooling concept | Natural | | | | | | | | |
| Communication interfaces | RS485/ DRM/ Pocket Wi-Fi/LAN/GPRS(optional)/USB/CT/Meter (optional) | | | | | | | | |

PROTECTION

| | |
|------------------------------------|-----|
| Over/under voltage protection | YES |
| DC isolation protection | YES |
| Monitoring ground fault protection | YES |
| Grid monitoring | YES |
| DC injection monitoring | YES |
| Back feed current monitoring | YES |
| Residual current detection | YES |
| Anti-islanding protection | YES |
| Over temp protection | YES |
| SPD | YES |

STANDARD

| | |
|---------------|---|
| Safety | EN/IEC62109-1/-2 |
| EMC | EN61000-6-1/2/3/4;EN61000-3-2/3/11/12 |
| Certification | IEC61727/G98/AS/NZS 4777.2/VDE4105/EN50549/CEI 0-21/RD1699/UNE 206007-1/VFR and so on |