

# X1-MINI

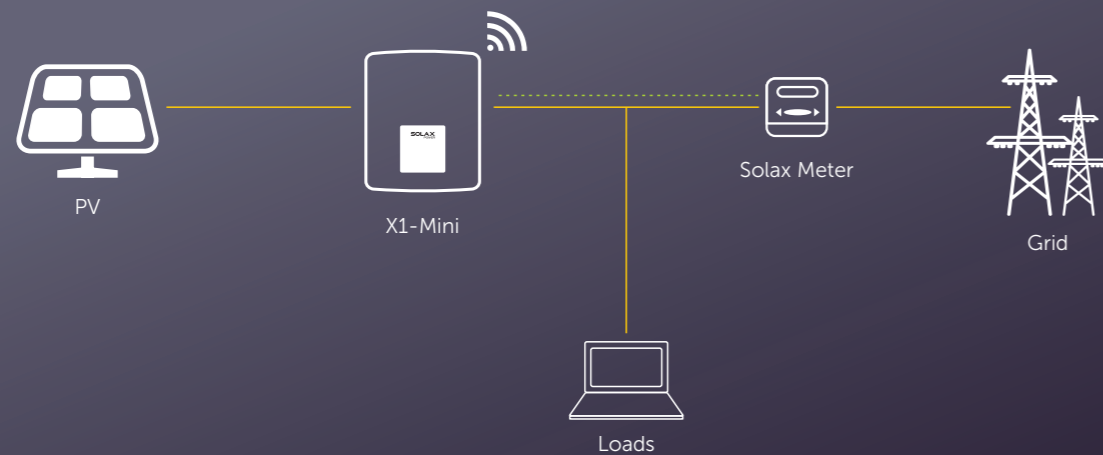
S: Single MPPT      D: With DC switch  
N: Without DC switch    L: With LCD Screen

## SINGLE-PHASE ON-GRID INVERTER 0.6~3.6kW

### Features

- Small and compact size
- 150% oversizing and 110% overloading
- Max. DC input 14A per string
- Low startup voltage and wide MPPT range
- CT/Meter compatibility
- Built-in SPD on both AC and DC side
- Remote upgrade and maintenance

## 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)

	X1-0.6-S-D(L) X1-0.6-S-N(L)	X1-0.7-S-D(L) X1-0.7-S-N(L)	X1-1.1-S-D(L) X1-1.1-S-N(L)	X1-1.5-S-D(L) X1-1.5-S-N(L)	X1-2.0-S-D(L) X1-2.0-S-N(L)	X1-2.5K-S-D(L) X1-2.5K-S-N(L)	X1-3K-S-D(L) X1-3K-S-N(L)	X1-3.3K-S-D(L) X1-3.3K-S-N(L)	X1-3.6K-S-D(L) X1-3.6K-S-N(L)
<b>DC INPUT</b>									
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	70	70	70	70
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. PV input current [A]	14	14	14	14	14	14	14	14	14
Isc PV Array Short Circuit current [A]	18	18	18	18	18	18	18	18	18
<b>AC OUTPUT</b>									
Rated AC output power [W]	600	700	1100	1500	2000	2500	3000	3300	3680
Rated AC output current [A]	2.61	3.04	4.78	6.52	8.7	10.8	13.04	14.3	16
Max. 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 / AC voltage range [V]*	220/230/240; 180~280								
Nominal AC frequency / AC frequency range [Hz]*	50/60; ±5								
Power Factor range	0.8 leading ~ 0.8 lagging								
THDi (Rated power) [%]	<3								
<b>SYSTEM DATA</b>									
Max. efficiency [%]	98								
Euro. efficiency [%]	95.00	95.00	95.50	96.00	96.50	96.50	96.50	96.50	96.50
Standby consumption [W] @Night	0								
Ingress protection	IP66								
Operating ambient temperature range [°C]	-25 ~ +60 (derating at 45)								
Max. operation altitude [m]	≤2000								
Humidity [%]	0~100 (condensation)								
Typical noise emission [dB]	30								
Storage temperature [°C]	-30~+70								
Dimensions (WxHxD) [mm]	267 x 328 x 126								
Net weight [kg]	6	6	6	6	6	8.3	8.3	8.3	8.3
Cooling concept	Natural cooling								
Communication interfaces	RS485 / DRM/USB, Optional: CT / Meter								
Optional monitoring dongle	Pocket WiFi / LAN / 4G								
Display	2 x LED + LCD (16 x 2) / APP								
<b>PROTECTION</b>									
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 temperature protection	YES								
SPD	YES								
<b>STANDARD</b>									
Safety	EN/IEC62109-1/-2								
EMC	EN61000-6-1/2/3/4; EN61000-3-2/3/11/12								
Certification	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, RD1699, UNE 206007-1, VFR								

\* The AC voltage and the frequency range may vary from different country codes

V3.4. Information may be subject to modify without notice.650.00020.00