X1-BOOST

T: Dual MPPT
D: With DC switch N: Without DC switch

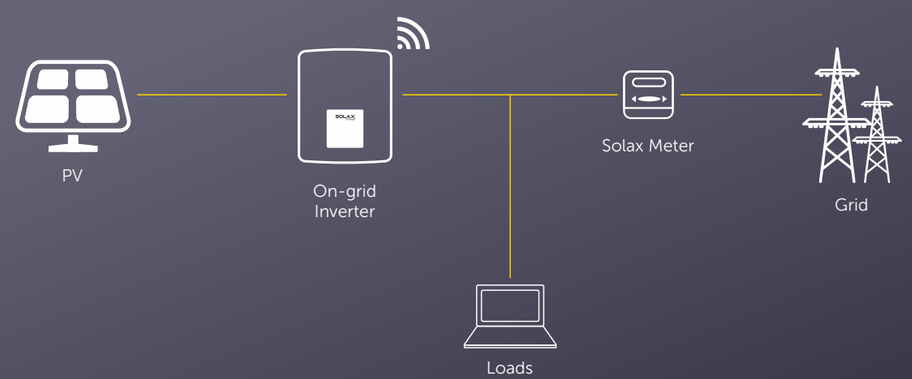
SINGLE PHASE
ON-GRID INVERTER

3.0~6.0kW

Features

- Remote upgrade and control
- 150% oversized PV power
- Max. DC input 14A per string
- AC built in SPD
- CT compatibility
- Zero injection supported

SOLUTION DESIGN



X1-BOOST

SINGLE PHASE

	X1-3.0-T-D X1-3.0-T-N	X1-3.3-T-D X1-3.3-T-N	X1-3.6-T-D X1-3.6-T-N	X1-4.2-T-D X1-4.2-T-N	X1-4.6-T-D X1-4.6-T-N	X1-5.0-T-D X1-5.0-T-N	X1-5.5K-T-D X1-5.5K-T-N	X1-6.0K-T-D X1-6.0K-T-N
DC INPUT								
Max. PV array input power [Wp]	4500	4950	5400	6300	6900	7500	7500	9000
Max. PV input voltage [V]	600	600	600	600	600	600	600	600
Start startup voltage [V]	80	80	80	80	80	80	80	80
Nominal input voltage [V]	360	360	360	360	360	360	360	360
MPP tracker voltage range [V]	70~580	70~580	70~580	70~580	70~580	70~580	70~580	70~580
No. of MPP trackers/Strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Max. input current(input A/input B) [A]	14/14	14/14	14/14	14/14	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	16/16	16/16	16/16	16/16
AC OUTPUT								
Nominal AC output power [W]	3000	3300	3680	4200	4600	5000 (4600 for VDE4105)	5500	6000
Nominal AC output current [A]	13	14.3	16	18.3	20	21.7 (20 for VDE4105)	23.9	26.1
Max. AC output apparent power [VA]	3300	3630	4048	4620	5060	5500 (4600 for VDE4105)	6050	6600 (4600 for VDE4105)
Max. AC output current [A]	14.3	15.8	17.6(16AforG98)	20.1	22	23.9 (20 for VDE4105)	26.3	28.7
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 [%]	<2							
SYSTEM DATA								
Max. efficient [%]	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00
Euro. efficient [%]	97.00	97.00	97.00	97.00	97.00	97.00	97.00	97.00	97.00
Standby consumption [W] @Night	<2							
Degree of protection	IP66							
Operating temperature range [°C]	-25~+60 (derating at 45°C)							
Max. operation altitude [m]	≤3000							
Humidity [%]	0~100 (Condensing)							
Typical noise emission [dB]	<25							
Storage temperature [°C]	-30~+70							
Dimensions[W×H×D] [mm]	430*341.5*143							
Weight [kg]	13.5							
Cooling concept	Natural							
Communication interfaces	Pocket Wi-Fi/LAN/GPRS(optional)/RS485/DRM/USB-Upgrade/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/G99/ AS/NZS 4777.2/VDE4105/EN50549/CEI 0-21RD1699/UNE 206007-1/VFR and so on							