

X1-HYBRID

D:With DC switch
N:Without DC switch

SINGLE-PHASE
HYBRID INVERTER

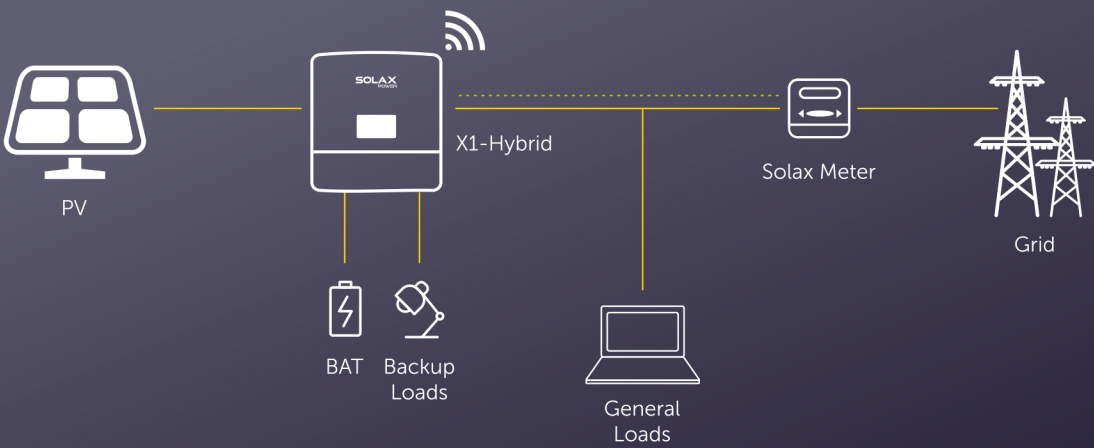
3.0~5.0kW



Features

- VPP function
- IP65 Protection level
- Max. 150% oversized PV power
- Max. 110% nominal apparent AC power
- Working temperature:-20°C to 60°C
- Remote upgrade and control

SOLUTION DESIGN



X1-HYBRID

SINGLE-PHASE

	X1-HYBRID-3.0-D-E(I/C) X1-HYBRID-3.0-N-E(I/C)			X1-HYBRID-3.7-D-E(I/C) X1-HYBRID-3.7-N-E(I/C)			X1-HYBRID-5.0-D-E(I/C) X1-HYBRID-5.0-N-E(I/C)		
	C Version	E Version	I Version	C Version	E Version	I Version	C Version	E Version	I Version
DC INPUT									
Max. PV array input power [Wp]		4500			5550			7500	
Max. PV input voltage [V]		600			600			600	
Start output voltage [V]		150			150			150	
Nominal input voltage [V]		360			360			360	
MPP voltage range [V]		125~550			125~550			125~550	
No. of MPP trackers/Strings per MPP tracker		2(1/1)			2(1/1)			2(1/1)	
Max. input current(input A/input B) [A]		12			12			12	
Max. short circuit current(input A/input B) [A]		14			14			14	
AC INPUT & OUTPUT									
Nominal AC output power [W]		3000			3680			4999	
Max. AC output apparent power [VA]		3300			4048(3680 for G98)			5500(4999 for AS4777;4600 for VDE4105)	
Max. AC output current [A]		14.3			16			23.9 (20 for VDE4105;21.7 for AS4777)	
Max. AC input apparent power [VA]	3000	3000	7000	3680	3680	7680	4999	4999	9999
Max. AC input current [A]	14.4	14.4	36.1	16.0	16.0	37.7	21.7	21.7	47.7
Nominal AC voltage [V]					220/230/240				
Nominal grid frequency/Grid frequency range [Hz]					50/60				
Displacement power factor					0.8 leading~0.8 lagging				
THDi (rated power) [%]					<2				
BATTERY DATA									
Battery type					Li-ion battery/Lead-acid battery				
Battery voltage range [V]					85~400				
Max. continuous charge/discharge current [A]					20				
EPS(OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)									
Nominal output power [W]		4000			4000			5000	
Peak apparent power [VA]		6000, 10s			6000, 10s			8000, 10s	
Max. continous current [A]		21.7			21.7			26.0	
Nominal voltage[V]; Frequency [Hz]					230; 50/60				
Switch time [ms]					<20 for I version / <500 for E version				
Parallel operation					YES				
SYSTEM DATA									
Max. efficiency [%]					97.8				
Euro. efficiency [%]					97.0				
MPPT efficiency [%]					99.9				
Euro battery discharge efficiency [%]					95.1				
Standby consumption [W] @Night					<15 for hot standby, <3 for cold standby				
Degree of protection					IP65				
Operating temperature range [°C]					-20~+60 (derating at 45°C)				
Max. operation altitude [m]					<2000				
Humidity [%]					0~100				
Typical noise emission [dB]					40				
Storage temperature [°C]					-20~60				
Dimensions(WxHxD) [mm]					476*464*180				
Net weight [kg]					24				
Cooling concept					Nature cooling				
Communication interfaces					Ethernet/Meter/Pocket Wi-Fi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/DRM/USB/ISO alarm/CT/NTC				
STANDARD									
Safety					EN/IEC62109-1/-2				
EMC					EN61000-6-1/2/3/4;EN61000-3-2/3/11/12				
Certification					VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 /G99 /G98 / AS4777 / EN50549/ CEI 0-21 /VDE 2510 / and so on				

*1: PV to BAT Max. efficiency 97.0%, BAT to AC Max. efficiency 97.0%