



Single Phase
Hybrid Inverter

X1-Hybrid

High Voltage

**Simple.
Reliable.
Efficient**



6000W Charger/
Discharger Rate



3 Inverter
Models



IP65
Rated



Remote
Monitoring

3kW

3.7kW

X1-HYBRID-3.0-N-I / X1-HYBRID-3.7-N-I X1-HYBRID-4.6-N-I / X1-HYBRID-5.0-N-I

SolaX Power is delighted to announce the launch of the eagerly anticipated third generation of our market-leading solar battery storage product Hybrid inverter. The X-Hybrid battery storage inverter is compatible with the leading lithium-ion battery solutions available on the market today making it the most popular energy storage solution.



I: internal EPS function device



X1-HYBRID HV (SINGLE PHASE) !internal EPS function device

X1-HYBRID-3.0-N-I X1-HYBRID-3.7-N-I X1-HYBRID-4.6-N-I X1-HYBRID-5.0-N-I

INPUT (DC)	X1-HYBRID-3.0-N-I	X1-HYBRID-3.7-N-I	X1-HYBRID-4.6-N-I	X1-HYBRID-5.0-N-I
Max.PV array power [Wp]	4500	5520	6900	7499
Max.DC voltage [V]	600	600	600	600
Nominal DC operating voltage [V]	360	360	360	360
Max. input current (input A/input B) [A]	10/10	10/10	10/10	10/10
Max. short circuit current (input A/input B) [A]	14/14	14/14	14/14	14/14
MPPT voltage range[V]	125-550	125-550	125-550	125-550
Start operating voltage[V]	150	150	150	150
No. of MPP trackers	2	2	2	2
Strings per MPP tracker	1	1	1	1
INPUT AC				
Max. apparent AC power[VA]	3000+4000(bypass)	3680+4000(bypass)	4600+5000(bypass)	4999+5000(bypass)
Max. AC current[A]	14.4+21.7(bypass)	16+21.7(bypass)	21+26(bypass)	21.7+26.0(bypass)
Nominal grid voltage(AC voltage range)[V]	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)
Nominal grid Frequency/range[Hz]	50/60	50/60	50/60	50/60
OUTPUT AC				
Nominal AC power [VA]	3000	3680	4600	4999
Max. apparent AC power [VA]	3000	3680	4600	4999
Nominal grid voltage(AC voltage range) [V]	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)
Nominal grid frequency/range [Hz]	50/60	50/60	50/60	50/60
Nominal AC current [A]	13	16	20	21.7
Max. AC current [A]	14.4	16	21	21.7
Displacement power factor	0.8 leading ... 0.8 lagging			
THDi, rated power [%]	<2			
OUTPUT DC (BATTERY)				
Battery voltage range [V]	85-400			
Recommended battery voltage[V]	300			
Max.continuous charge/discharge current [A]	20			
Communication interfaces	CAN/RS485			
Reverse connect protection	Yes			
EPS OUTPUT (WITH BATTERY)				
EPS MAX. continuous apparent power [VA]	4000	4000	5000	5000
EPS rated voltage[V],Frequency [Hz]	230, 50/60	230, 50/60	230, 50/60	230, 50/60
EPS MAX.continuous current [A]	21.7	21.7	26.0	26.0
EPS peak apparent power [VA] Duration [s]	6000 10	6000 10	8000 10	8000 10
Changeover time [ms]	<500			
THDv, linear Load [%]	<2			
EFFICIENCY				
MPPT efficiency [%]	99.9			
Euro efficiency [%]	97.0			
Max. efficiency [%]	97.8			
Battery charge/discharge efficiency [%]	98.5 (PV-BAT) 97.0 (BAT-AC)			
POWER CONSUMPTION				
Standby consumption (Night) [W]	<3			
STANDARD				
Safety	IEC62109-1/-2			
EMC	EN61000-6-1/EN61000-6-2/EN61000-6-3			
Certification	VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 /G99 /G98 / AS4777 / EN50438/ CEI 0-21 /VDE 2510 / and so on			
ENVIRONMENT LIMIT				
Degree of protection(according to IEC60529)	IP65			
Operating temperature range [°C]	-20~+60 (derating at+45)			
Max. operation altitude [m]	2000			
Humidity [%]	4~100 (Condensing)			
Storage temperature [°C]	-20~+60			
Typical noise emission [dB]	40			
DIMENSION AND WEIGHT				
Dimensions(WxHxD) [mm]	476*464*180			
Weight[kg]	24			
Cooling concept	Natural			
Topology	Non-isolated			
Communication interfaces	Ethernet/Meter/Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/DRM/USB/ISO alarm/CT			
LCD display	Backlight 20*4 character			
Standard warranty [years]	5			