

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-3.0T / X1-HYBRID-3.7T X1-HYBRID-4.6T / X1-HYBRID-5.0T

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.



Version: E,C,I

E:with EPS function C:without EPS function

I:internal EPS function device

	X1-HYBRID-3.0T			X1-HYBRID-3.7T			X1-HYBRID-4.6T			X1-HYBRID-5.0T		
INPUT (DC)	C Version	E Version	I Version	C Version	E Version	I Version	C Version	E Version	I Version	C Version	E Version	I Version
Max.PV array power [Wp]		4500			5550			6900			7500	
Max.recommended DC power[W]		A:3000 B:3000			A:3000 B:3000			A:3000 B:3000			A:3000 B:3000	
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]		12/12			12/12			12/12			12/12	
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 / Strings per MPP tracker		2(1/1)			2(1/1)			2(1/1)			2(1/1)	
INPUT AC												
Max. apparent AC power[VA]	3000	3000	7000	3680	3680	7680	4600	4600	9600	4999	4999	9999
Max. AC current[A]	14.4	14.4	30.4	16.0	16.0	33.4	21.0	21.0	41.7	21.7	21.7	42.7
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]	3300			4048(3680 for G98)			5060			5500 (4999 for AS4777;4600 for VDE4105)		
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			23.9 (20 for VDE4105;21.7 for AS4777)		
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]	8000 10			8000 10			8000 10			8000 10		
Changeover time [ms]	<20 for I version / <500 for E version											
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]	<15 for hot standby, <3 for cold standby											
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 / EN50549/ 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 [%]	0~100 (non-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]	5-10											

Three Phase
Hybrid Inverter

X3-Hybrid

High Voltage



**Simple.
Reliable.
Efficient**



3-phase
Unbalance Output



High
Efficiency



IP65
Rated



Remote
Monitoring

5kW

6kW

X3-HYBRID-5.0T / X3-HYBRID-6.0T X3-HYBRID-8.0T / X3-HYBRID-10.0T

The new X-Hybrid 3-phase inverter from SolaX is the latest incarnation of the market leading range of hybrid inverters, offering a flexible and scalable solution for both domestic and commercial applications. The 3-phase series includes inverters ranging in size from 5 to 10kW, and with the ability to install multiple inverters in parallel, scalable battery storage for commercial applications is now a reality. The Inverter is equipped with EPS (Emergency Power Supply) function only when supported by extra changeover devices, had multiple communication options and can be controlled remotely.





X3-HYBRID (THREE PHASE)

X3-HYBRID-5.0T

X3-HYBRID-6.0T

X3-HYBRID-8.0T

X3-HYBRID-10.0T

INPUT (DC)

Max.PV array power [Wp]	7500	9000	12000	15000
Max.recommended DC power[W]	A:3000/B:3000	A:4000/B:4000	A:6000/B:4000	A:8000/B:5000
Max.DC voltage [V]	1000	1000	1000	1000
Nominal DC operating voltage [V]	720	720	720	720
Max. input current (input A/input B) [A]	12/12	12/12	24/12	24/12
Max. short circuit current (input A/input B) [A]	14/14	14/14	23/14	23/14
MPPT voltage range[V]	180-950	180-950	180-950	180-950
Start operating voltage[V]	180	180	180	180
No. of MPP trackers / Strings per MPP tracker	2(1/1)	2(1/1)	2(2/1)	2(2/1)

INPUT AC

Max. apparent AC power[VA]	5500	6000	8000	10000
Max. AC current[A]	8,0	9,6	12,8	15,9
Nominal grid voltage(AC voltage range)[V]	400/230;380/220	400/230;380/220	400/230;380/220	400/230;380/220
Nominal grid Frequency/range[Hz]	50/60	50/60	50/60	50/60

OUTPUT AC

Nominal AC power [VA]	5000	6000	8000	10000
Max. apparent AC power [VA]	5500	6600	8800	11000
Nominal grid voltage(AC voltage range) [V]	400/230;380/220			
Nominal grid frequency/range [Hz]	50/60			
Nominal AC current [A]	7,2	8,7	11,6	14,5
Max. AC current [A]	8,0	9,6	12,8	15,9
Displacement power factor	0.8 leading ... 0.8 lagging			
THDi, rated power [%]	<3			

OUTPUT DC (BATTERY)

Battery voltage range [V]	160-800			
Max.continuous charge/discharge current [A]	25			
Communication interfaces	CAN/RS485			
Reverse connect protection	Yes			

EPS OUTPUT (WITH BATTERY)

EPS MAX. continuous apparent power [VA]	5000	6000	8000	10000
EPS rated voltage[V],Frequency [Hz]	400/230VAC;380/220VAC; 50/60			
EPS MAX.continuous current [A]	7,2	8,7	11,6	14,5
EPS peak apparent power [VA] Duration[s]	<10000 60	<12000 60	<14000 60	<15000 60
Changeover time [s]	<1,5			
THDv, linear Load [%]	<2			

EFFICIENCY

MPPT efficiency [%]	99,9			
Euro efficiency [%]	97,0			
Max. efficiency [%]	97,8			
Battery charge/discharge efficiency [%]	97,0/96,0	97,0/96,0	97,5/96,5	97,5/96,5

POWER CONSUMPTION

Standby consumption (Night) [W]	<25 for hot standby, <3 in cold standby			
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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 / G98 / AS4777 / EN50549 / CEI 0-21 / 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 [%]	0-100 (non-condersing)			
Storage temperature [°C]	-20~+60			
Typical noise emission [dB]	40			

DIMENSION AND WEIGHT

Dimensions(WxHxD) [mm]	457*654*228			
Weight[kg]	45			
Cooling concept	Natural			
Topology	Non-isolated			
Communication interfaces	Ethernet/Meter/Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/DRM/USB/ISO alarm/CAN/BMS/NTC			
LCD display	Backlight 20*4 character			
Standard warranty [years]	5-10			