

NEW

From Solax

X-HYBRID

X1-HYBRID HV

X3-HYBRID HV



X1-Hybrid HV



X3-Hybrid HV

X1-HYBRID HV/ X3-HYBRID HV

The World's Leading Hybrid Inverter Just Got Better

More than just an inverter, the innovative X-Hybrid is an intelligent energy management system that stores surplus energy in batteries for later use.

The X-Hybrid works by storing surplus energy in batteries for later use, making it possible to utilize solar power time-independently by storing unused capacity. It converts and directs solar power to where it is needed, when it is needed. X-Hybrid is also supplied EPS (Emergency Power Supply) function, allowing the end-user to use their stored energy in the event of a power outage.

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X1-Hybrid HV (SINGLE PHASE)

X3-Hybrid HV (THREE PHASE)

	X1-Hybrid-3.0-N-I	X1-Hybrid-3.7-N-I	X1-Hybrid-4.6-N-I	X1-Hybrid-5.0-N-I	X3-Hybrid-5.0-N-E	X3-Hybrid-6.0-N-E	X3-Hybrid-8.0-N-E	X3-Hybrid-10.0-N-E
	X1-Hybrid-3.0-D-I	X1-Hybrid-3.7-D-I	X1-Hybrid-4.6-D-I	X1-Hybrid-5.0-D-I	X3-Hybrid-5.0-D-E	X3-Hybrid-6.0-D-E	X3-Hybrid-8.0-D-E	X3-Hybrid-10.0-D-E

INPUT (DC)									
Max.recommended DC power[W]	4500	5520	6900	7499	7500	9000	12000	15000	
Max.DC voltage[V]	600	600	600	600	1000	1000	1000	1000	
Nominal DC operating voltage[V]	360	360	360	360	720	720	720	720	
Max.input current[A]	10/10	10/10	10/10	10/10	11/11	11/11	11/11	20/11	
Max. short circuit current[A]	14/14	14/14	14/14	14/14	14/14	14/14	14/14	23/14	
No. of MPP trackers	2	2	2	2	2	2	2	2	
Strings per MPP tracker	1	1	1	1	1	1	1	2/1	
OUTPUT AC									
Nominal AC power [VA]	3000	3680	4600	4999	5000	6000	8000	10000	
Max. apparent AC power [VA]	3000	3680	4600	4999	5000	6000	8000	10000	
Rated grid voltage(AC voltage range) [V]	220/230/240 (180 to 270)					400 (360-440)			
Rated grid frequency [Hz]	50/60			50/60					
Nominal AC current [A]	13	16	20	21.7	7.6	9.1	12.1	15.2	
Displacement power factor	0.8 leading ... 0.8 lagging			0.8 leading ... 0.8 lagging					
Total harmonic distortion(THD, rated power) [%]	<2			<2					
Parallel operation	Yes			Yes					
Load control	Yes (optional)			Yes (optional)					
OUTPUT DC (BATTERY)									
Battery voltage range [V]	85-400			170-500					
Recommended battery voltage [V]	300			200		240		320	400
Max.charging/discharging power [W]	6000			6000		8000		10000	10000
Max.charging/discharging current [A]	20			25					
Communication interfaces	CAN/RS485			CAN/RS485					
Reverse connect protection	Yes			Yes					
EPS OUTPUT (WITH BATTERY)									
EPS rated power [VA]	4000	4000	5000	5000	5000	6000	8000	10000	
EPS rated voltage [V], Frequency [Hz]	230, 50/60	230, 50/60	230, 50/60	230, 50/60	400/380, 50/60	400/380, 50/60	400/380, 50/60	400/380, 50/60	
EPS rated current [A]	17.4	17.4	21.7	21.7	7.2	8.7	11.6	14.5	
EPS peak power[W]:Duration [s]	6000,10	6000,10	8000,10	8000,10	<7500,60	<9000,60	<12000,60	<15000,60	
Switch time[s]	<0.5			<0.5					
Total harmonic distortion(THD, linear load) [%]	<2			<2					
Parallel operation	Yes			Being developed					
EFFICIENCY									
MPPT efficiency [%]	99.90			99.90					
Euro efficiency [%]	97.00			97.00					
Max. efficiency [%]	97.80			97.80					
Battery charge/discharge efficiency [%]	98.50(PV-BAT)		97.00(BAT-AC)		97.0 / 96.0		97.0 / 96.0	97.5/ 96.5	97.5/ 96.5
POWER CONSUMPTION									
Standby consumption(night) [W]	<7			<7					
Idle mode	YES			YES					
STANDARD									
Safety	IEC62109-1-2 / IEC62040				IEC62109-1-2 / IEC62040				
EMC	EN61000-6-1/EN61000-6-2/EN61000-6-3				EN61000-6-1/EN61000-6-2/EN61000-6-3				
Certification	VDE0126-1-1 A1:2012/VDE-AR-N4105/G83/G59/AS4777/EN50438/CEI 0-21/VDE 2510				VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 /G83 / AS4777 / EN50438/ CEI 0-21 /VDE 2510				
ENVIRONMENT LIMIT									
Protection class	IP65			IP65					
Operating temperature range [°C]	-20 to+60 (derating at+45)			-25 to+60 (derating at+45)					
Altitude[m]	<2000			<2000					
Storage temperature[°C]	-20 to+60			-20 to+60					
Noise emission(typical) [dB]	<40			<30					
Over voltage category	III (electric supply side), II (PV side)			III (electric supply side), II (PV side)					
DIMENSION AND WEIGHT									
Dimensions(WxHxD) [mm]	476*464*180			655*456*208					
Weight[kg]	27			40					
Cooling concept	Natural			Natural					
Topology	Transformerless			Transformerless					
Communication	Ethernet, Meter, WIFI (optional), RF(optional), DRM, USB, ISO alarm, Parallel operation				Ethernet, Meter, WIFI (optional), RF(optional), DRM, USB, ISO alarm				
LCD display	Backlight 20*4 character			Backlight 20*4 character					
Standard warranty [years]	5			5					

*Can be modified without notice.(V3)