

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-3.0T X1-HYBRID-3.7T X1-HYBRID-4.6T X1-HYBRID-5.0T X3-Hybrid-5.0T X3-Hybrid-6.0T X3-Hybrid-8.0T X3-Hybrid-10.0T

INPUT (DC)	X1-HYBRID-3.0T	X1-HYBRID-3.7T	X1-HYBRID-4.6T	X1-HYBRID-5.0T	X3-Hybrid-5.0T	X3-Hybrid-6.0T	X3-Hybrid-8.0T	X3-Hybrid-10.0T
Max.recommended DC power[W]	4000	5000	6000	6000	6000	8000	10000	13000
Max.DC voltage[V]	600	600	600	600	1000	1000	1000	1000
Norminal 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
MPPT voltage range[V]	125-550	125-550	125-550	125-550	230-800	280-800	370-800	330-800
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								
Norminal AC power [VA]	3000	3680	4600	4999	5000	6000	8000	10000
Max. AC power [VA]	3000	3680	4600	4999	5000	6000	8000	10000
Rated grid voltage(AC voltage range) [V]	230(180 to 270)	230(180 to 270)	230(180 to 270)	230(180 to 270)	400(360 to 440)	400(360 to 440)	400(360 to 440)	400(360 to 440)
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Norminal AC current [A]	13	16	20	21.7	7.6	9	12.2	15
Max. AC current [A]	14.4	16	21	21.7	8.5	10	13.5	16
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				320		
Max.charging/discharging power [W]		6000				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]	8000,10	8000,10	8000,10	8000,10	7500,60	9000,60	12000,60	14000,60
Switch time[s]		<0.5				<0.5		
Total harmonic distortion(THD, linear load) [%]		<2				<2		
Parallel operation		Being developed				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 [%]		96.5 (PV-BAT) 97.0 (BAT-AC)				97.8 (PV-BAT) 96.0 (BAT-AC)		
POWER CONSUMPTION								
Standby consumption(night) [W]		<7				<7		
Idle mode		YES				YES		
STANDARD								
Safety		IEC62109-1-2 / IEC62040				IEC62109-1-2 / IEC62040/ AS3100		
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/CEIO-21/VDE2510				VDE0126-1-1 A1:2012/VDE-AR-N4105/G59-3/AS4777/EN50438/CEI 0-21/IEC62040/IEC62619/ISO13849-2/SN29500/IEC615086		
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]		<30				<30		
Over voltage category		III (electric supply side), II (PV side)				III (electric supply side), II (PV side)		
DIMENSION AND WEIGHT								
Dimensions(WxHxD) [mm]		482*464*182				456*655*228		
Weight[kg]		26.9				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, Parallel operation		
LCD display		Backlight 20*4 character				Backlight 20*4 character		
Standard warranty [years]		5-10				5-10		

*Can be modified without notice.(V2)