

NEW

From Solax

X-HYBRID GEN 3 X-HYBRID THREE PHASE



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 with a built-in EPS, allowing the end-user to use their stored energy in the event of a power outage.



X-HYBRID GEN 3



X-HYBRID THREE PHASE

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X-HYBRID GEN 3 (SINGLE PHASE)

X-HYBRID THREE PHASE (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)									
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]	90-400				200-500				
Recommended battery voltage [V]	300				200	240	320	400	
Max.charging/discharging power [W]	6000				5000	6000	8000	10000	
Max.charging/discharging current [A]	20				25				
Communication interfaces	CAN/RS485				CAN/RS485				
Reverse connect protection	Yes				No				
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	400/230, 50/60	400/230, 50/60	400/230, 50/60	400/230, 50/60	
EPS rated current [A]	17.4	17.4	21.7	21.7	7.6	9	12.2	15	
EPS peak power[W];Duration [s]	10000,10	10000,10	10000,10	10000,10	10000,60	12000,60	16000,60	16000,60	
Switch time [s]	<0.5				<0.5				
Total harmonic distortion(THD, linear load) [%]	<2				<2				
Parallel operation	Yes				Yes				
EFFICIENCY									
MPPT efficiency [%]	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	
Euro efficiency [%]	97.00	97.00	97.00	97.00	97.00	97.00	97.00	97.00	
Max. efficiency [%]	97.80	97.80	97.80	97.80	97.60	97.60	97.60	97.60	
Battery charge/discharge efficiency [%]	98.50	98.50	98.50	98.50	96.00	96.00	96.00	96.00	
POWER CONSUMPTION									
Internal 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				
ENVIRONMENTAL PARAMETERS									
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)				
DIMENSIONS AND WEIGHT									
Dimensions (WxHxD) [mm]	460*477*181.5				650*453*222.5				
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 (Dependent On Territory)				5-10				