

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)	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																															
Total harmonic distortion(THD, rated power) [%]	<2																															
Parallel operation	Yes																															
Load control	Yes (optional)																															
OUTPUT DC (BATTERY)																																
Battery voltage range [V]	90-400														200-500																	
Recommended battery voltage [V]	300														200																	
Max.charging/discharging power [W]	6000														5000																	
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																															
Total harmonic distortion(THD, linear load) [%]	<2																															
Parallel operation	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																															
Idle mode	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																															
Operating temperature range [°C]	-20 to+60 (derating at+45)														-25 to+60 (derating at+45)																	
Altitude [m]	<2000																															
Storage temperature [°C]	-20 to+60																															
Noise emission (typical) [dB]	<30																															
Over voltage category	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																															
Topology	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																															
Standard warranty [years]	5-10 (Dependent On Territory)																															