

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



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																															
Total harmonic distortion(THD, rated power) [%]	<2																															
Parallel operation	Yes																															
Load control	Yes (optional)																															
OUTPUT DC (BATTERY)																																
Battery voltage range [V]	90-400																															
Recommended battery voltage [V]	300				300				300				300				200				240				320				400			
Max.charging/discharging power [W]	6000				6000				6000				6000				5000				6000				8000				10000			
Max.charging/discharging current [A]	20				20				20				20				20				25				25				25			
Communication interfaces	CAN/RS485																															
Reverse connect protection	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				400/230, 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																															
EMC	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																															
Operating temperature range [°C]	-20 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)																															
DIMENSION 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																															
LCD display	Backlight 20*4 character																															
Standard warranty [years]	5-10																															