NEW

From Solax

X-HYBRID

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 user their stored energy in the event of a power outage.

X1-Hybrid HV

X3-Hybrid HV

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SOLAX POWER

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)								
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				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				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	400/380, 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	7.6	9	12.2	15
EPS peak power[W];Duration [s]	8000,10	8000,10	8000,10	8000,10	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								
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/CEI0-21/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]	460*477*181.5				655*456*208			
Weight[kg]	26.9				40			
Cooling concept	Forced-cooling				Forced-cooling			
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)