

# 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 use their stored energy in the event of a power outage.



X1-Hybrid HV



X3-Hybrid HV

### Get in touch now:

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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
<b>INPUT (DC)</b>								
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
Nominal 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	350-800
No. of MPP trackers	2	2	2	2	2	2	2	2
Strings per MPP tracker	1	1	1	1	1	1	1	1
<b>OUTPUT AC</b>								
Nominal AC power [VA]	3000	3660	4600	4999	5000	6000	8000	10000
Max. AC power [VA]	3000	3660	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
Nominal 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)							
<b>OUTPUT DC (BATTERY)</b>								
Battery voltage range [V]	85-400							
Recommended battery voltage [V]	300							
Max.charging/discharging power [W]	6000							
Max.charging/discharging current [A]	20							
Communication interfaces	CAN/RS485							
Reverse connect protection	Yes							
<b>EPS OUTPUT (WITH BATTERY)</b>								
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							
Total harmonic distortion(THD, linear load) [%]	<2							
Parallel operation	Yes							
<b>EFFICIENCY</b>								
MPP 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
<b>POWER CONSUMPTION</b>								
Standby consumption(night) [W]	<7							
Idle mode	YES							
<b>STANDARD</b>								
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/CEI0-21/VDE2510	VDE0126-1-1 A1:2012/VDE-AR-N4105/G59-3/AS4777/EN50438/CEI0-21/IEC62040/IEC61619/ISO3849-2/SN29500/IEC615086						
<b>ENVIRONMENT LIMIT</b>								
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)							
<b>DIMENSION AND WEIGHT</b>								
Dimensions(WxHxD) [mm]	460*477*181.5							
Weight[kg]	26.9							
Cooling concept	Forced-cooling							
Topology	Transformerless							
Communication	Ethernet, Meter, WiFi (optional), DRM, USB, ISO alarm, Parallel operation							
LCD display	Backlight 20*4 character							
Standard warranty [years]	5-10							

\*Can be modified without notice.(V2)