

# 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:

Global: +86 571-56260008

AU: +61 1300 476529

Website: [www.solaxpower.com](http://www.solaxpower.com)

DE: +49 7231 4180999

UK: +44 2476 586998

Email: [info@solaxpower.com](mailto:info@solaxpower.com)





## 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
Normal 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 MPPT trackers	2	2	2	2	2	2	2	2
Strings per MPPT tracker	1	1	1	1	1	1	1	2/1
<b>OUTPUT AC</b>								
Nominal 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
Nominal AC current (A)	13	16	20	21.7	76	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	76	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 times[s]	<0.5							
Total harmonic distortion(THD, linear load) [%]	<2							
Parallel operation	Yes							
<b>EFFICIENCY</b>								
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
<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, AI:2012/VDE-AR-N4105/G83/G59/AS4777/EN50438/CEI 0-21/VDE2510							
<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), RF(optional), DRM, USB, ISO alarm, Parallel operation							
LCD display	Backlight 20*4 character							
Standard warranty [years]	5-10							

\*Can be modified without notice.(V2)