

NEW

From Solax

X-HYBRID SINGLE / THREE PHASE



X-Hybrid Single Phase
3.0T~5.0T



X-Hybrid Three Phase
5.0T~10.0T

X-HYBRID SINGLE/THREE PHASE

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.

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Eenfase

Driefase

X-Hybrid-3.0T X-Hybrid-3.7T X-Hybrid-4.6T X-Hybrid-5.0T X3-Hybrid-5.0T X3-Hybrid-6.0T X3-Hybrid-8.0T X3-Hybrid-10.0T

INPUT (DC)	X-Hybrid-3.0T		X-Hybrid-3.7T		X-Hybrid-4.6T		X-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	6000	6000	6000	6000	8000	10000	10000	10000	13000		
Max.DC voltage[V]	600	600	600	600	600	600	600	600	1000	1000	1000	1000	1000	1000		
Norminal DC operating voltage[V]	360	360	360	360	360	360	360	360	720	720	720	720	720	720		
Max.input current[A]	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	11/11	11/11	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	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	125-550	125-550	125-550	125-550	230-800	280-800	280-800	370-800	370-800	370-800		
No. of MPP trackers	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Strings per MPP tracker	1	1	1	1	1	1	1	1	1	1	1	1	1	2/1		
OUTPUT AC																
Norminal AC power [VA]	3000	3680	4600	4999	5000	5000	4999	5000	5000	6000	6000	8000	8000	10000		
Max. AC power [VA]	3000	3680	4600	4999	5000	5000	4999	5000	5000	6000	6000	8000	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)	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)	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	50/60	50/60	50/60	50/60	50/60	50/60		
Norminal AC current [A]	13	16	20	21.7	21.7	21.7	21.7	21.7	7.6	9	9	12.2	12.2	15		
Max. AC current [A]	14.4	16	21	21.7	21.7	21.7	21.7	21.7	8.5	10	10	13.5	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]		90-400										200-500				
Recommended battery voltage [V]		300										320				
Max.charging/discharging power [W]		6000										8000				
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	5000	5000	5000	5000	6000	6000	8000	8000	10000		
EPS rated voltage [V], Frequency [Hz]	230VAC, 50/60	230VAC, 50/60	230VAC, 50/60	230VAC, 50/60	230VAC, 50/60	230VAC, 50/60	230VAC, 50/60	230VAC, 50/60	400/380VAC, 50/60	400/380VAC, 50/60	400/380VAC, 50/60	400/380VAC, 50/60	400/380VAC, 50/60	400/380VAC, 50/60		
EPS rated current [A]	17.4	17.4	21.7	21.7	21.7	21.7	21.7	21.7	7.6	9	9	12.2	12.2	15		
EPS peak power[W]:Duration [s]	10000,10	10000,10	10000,10	10000,10	10000,10	10000,10	10000,10	10000,10	10000,60	12000,60	12000,60	16000,60	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	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	97.00	97.00	97.00	97.00	97.00	97.00		
Max. efficiency [%]	97.80	97.80	97.80	97.80	97.80	97.80	97.80	97.80	97.60	97.60	97.60	97.60	97.60	97.60		
Battery charge/discharge efficiency [%]	98.50	98.50	98.50	98.50	98.50	98.50	98.50	98.50	96.00	96.00	96.00	96.00	96.00	96.00		
POWER CONSUMPTION																
Internal consumption(night) [W]		<7										<7				
Idle mode		YES										YES				
STANDARD																
Safety		IEC62109-1-2 / IEC62040/ AS3100										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				
ENVIRONMENT LIMIT																
Protection class		IP65										IP65				
Operating temperature range [°C]		-20 to+60 (derating at+45)										-20 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										576*453*209				
Weight[kg]		26.9										40				
Cooling concept		Natural										Natural				
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										5				