

X-HYBRID

From Solax

SOLAR ENERGY ON DEMAND

SK-TL / SK-SU



SOLAR ENERGY Day & Night

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 utilise 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 Ready Inverter SK-TL

X1-Hybrid Inverter SK-SU

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X1-Hybrid

X1-Hybrid Ready Inverter

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X1-Hybrid Inverter

SK-TL3000E

SK-TL3700E

SK-TL5000E

SK-SU3000E

SK-SU3700E

SK-SU5000E

INPUT (DC)	SK-TL3000E	SK-TL3700E	SK-TL5000E	SK-SU3000E	SK-SU3700E	SK-SU5000E
Max. recommended DC Power [W]	3300	4000	5000	3300	4000	5000
Max. DC Voltage [V]		550			550	
Nominal DC operating voltage [V]		360			360	
MPPT voltage range [V]		125-530			125-530	
Max. input current [A]		12/12		12	12/12	12/12
Max. short circuit current [A]		15/15		15	15/15	15/15
No. of MPP trackers		2		2	2	2
Strings per MPP tracker		1		1	1	1
OUTPUT AC						
AC Nominal Power (W)	3000	3680	4600	3000	3680	4600
Nominal AC Voltage; Range (V); Frequency [Hz]		230,180~270; 50/60			230,180~270; 50/60	
AC Nominal Current (A)	13	16	20	13	16	20
Max. AC Current (A)	14.4	16	21.7	14.4	16	21.7
Total Harmonic Distortion (THD) [%]		<3			<3	
Power Factor (Rated Power)		1			1	
Displacement power factor		0.8 leading to 0.8 lagging			0.8 leading to 0.8 lagging	
EFFICIENCY						
MPPT efficiency [%]		99.9			99.9	
Euro efficiency [%]		97.0			97.0	
Max. efficiency [%]		97.6			97.6	
Standby Losses [W]		<7			<7	
DISPLAY						
LCD		Backlight 16*4 character			Backlight 16*4 character	
Communications		Ethernet/WiFi/Dry Contact/Meter(optional)			Ethernet/WiFi/ Dry Contact/Meter(optional)	
Led light		4			4	
Button		4			4	
BATTERY CHARGER (INTERNAL)						
Compatible Battery Type		Leading-acid battery/lithium battery			Leading-acid battery/lithium battery	
Nominal Battery Voltage [V]		48			48	
Battery Voltage Range [V]		40-60			40-60	
Max. Charging Current [A]		50(adjustable)			50(adjustable)	
Charging Curve		3-stage adaptive with maintenance			3-stage adaptive with maintenance	
Over Current Protection/Over Temperature Protection		Yes			Yes	
Communication Interfaces		Can/RS232			Can/RS232	
OTHERS						
DC switch		Optional			Optional	
MAX. No. of Supported External Charger		1			0	
Operating Temperature Range [°C]		-10~+50 (derating at 40)			-10~+50 (derating at 40)	
Storage Stability Range [°C]		-20~+60			-20~+60	
Altitude Limit [m]		<2000			<2000	
Cooling Concept		Forced airflow			Forced airflow	
Noise Emission (typical) [dB]		<40			<40	
Humidity [%]		0~95 (non-condensing)			0~95 (non-condensing)	
Protection Class		IP20 (indoor use)			IP20 (indoor use)	
Overvoltage Category		III (electric supply side), II (PV SIDE)			III (electric supply side), II (PV SIDE)	
EMC Standard		IEC61000-6-1/2/3			IEC61000-6-1/2/3	
Topology		Transformer-less			Transformer-less	
Warranty [years]		5-10 (Dependent On Territory)			5-10	
Dimensions W*H*D [mm]		475*591*151			700*591*151	
Weight [kg]		21.5			27.7	
Certification		VDE 4105 / AS/NZS4777.2 / C10 11 / EN50438-NL / EN50438-DK / OVE/ONORME 8001/ G83,G59 / CEI 0-21			VDE 4105 / AS/NZS4777.2 / C10 11 / EN50438-NL / EN50438-DK / OVE/ONORME 8001/ G83,G59 / CEI 0-21	
X-HYBRID INVERTER (EMERGENCY POWER SUPPLY)EPS (WITH INTERNAL CHARGER)						
EPS Rated Power [VA]	2000(50A)/3000(100A)	2000(50A)/3680(100A)	2000(50A)/4000(100A)	2000	2000	2000
EPS rated Voltage[V], Frequency [Hz]		230, 50/60			230,50/60	
EPS Rated Current [A]	8.7/13	8.7/16	8.7/17	8.7	8.7	8.7
EPS Peak Power [A];Duration [s]	1.5xRated, 10	1.5xRated, 10	1.5xRated, 10	1.5xRated, 10	1.5xRated, 10	1.5xRated, 10
Total Harmonic Distortion (THD) [%]		<3			<3	
Switch Time [s]		<5			<5	