

# X-HYBRID From Solax

# SOLAR ENERGY On Demand



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

## 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.



## E SERIES

- > Increase self-consumption to 80%+
- > Save money on energy bills
- > Protect against power outages
- > Limit export/charge from grid
- > Latest battery technology
- > High efficiency
- > 5 year warranty



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## PRODUCT DATA

SK-SU3000E

SK-SU3700E

SK-SU5000E

► Input (DC)			
Max. recommended DC power [W]	3300	4000	5000
Max. DC voltage [V]		550	
Nominal DC operating voltage [V]		360	
MPPT voltage range [V]		125-530	
Max. input current [A]	12	12/12	12/12
Max. short circuit current [A]	15	15/15	15/15
No. of MPP trackers	1	2	2
Strings per MPP tracker	1	1	1
► Output (AC)			
Nominal AC power [W]	3000	3680	4600
Nominal AC voltage, range [V]; Frequency [Hz]		230, 180~270; 50/60	
Nominal AC current [A]	13	16	20
Max. AC current [A]	14.4	16	21.7
Total harmonic distortion (THD) [%]		<3	
Power factor (rated power)		1	
Displacement power factor		0.9 leading to 0.9 lagging	
► Efficiency			
MPPT efficiency [%]	99.9	99.9	99.9
Euro efficiency [%]	97.0	97.0	97.0
Max. efficiency [%]	97.6	97.6	97.6
Standby losses [W]		<7	
► Display			
LCD		Backlight 16*4 character	
Communication interfaces		Ethernet/WiFi/Dry Contact	
LED light		4	
Button		4	
► Battery Charger (Internal)			
Compatible battery type		Lead-acid battery/lithium battery	
Nominal battery voltage [V]		48	
Battery voltage range [V]		40-60	
Max.charging current [A]		50 (adjustable)	
Charging curve		3-stage adaptive with maintenance	
Over-current protection/Over-Temperature protection		YES	
Communication interfaces		Can/RS232	
► Charger			
Max. power [W]		2500	
Max.charge current [A]		50	
► Discharger			
Max. power [W]		2500	
Max.discharge current [A]		50	
Depth of discharge	80-90% for lithium battery (adjustable) / 50% for lead-acid battery (adjustable)		
► Others			
DC switch		Optional	
Max. No. of supported external charger		0	
Operating temperature range [°C]		-10~+50 (derating at 40)	
Storage stability range [°C]		-20~+60	
Altitude [m]		<2000	
Cooling concept		Forced airflow	
Noise emission (typical) [dB]		<40	
Humidity [%]		0~95 (non-condensing)	
Protection class		IP20 (for indoor use)	
Overvoltage category		III (electric supply side), II (PV side)	
EMC standard		IEC61000-6-1/2/3/4	
Topology		Transformer-less	
Warranty [years]		5	
Dimensions WxHxD[mm]		700 x 591x 151	
Weight [kg]		27.7	
Certification	Germany, Australia, Belgium, Netherlands, Denmark, Austria, UK, Italy ,Greece,India,France		
X-Hybrid Inverter (Emergency Power Supply)		SK-SU3000E	SK-SU3700E
► EPS with internal charger			
EPS rated power [VA]	2000	2000	2000
EPS rated voltage [V], Frequency [Hz]		230, 50/60	
EPS rated current [A]	9	9	9
EPS peak power [VA]; Duration [s]	1.5xPrated,10	1.5xPrated,10	1.5xPrated,10
Total harmonic distortion (THD) [%]		<3	
Switch time [s]		<5	