

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 E series also have EPS (Emergency Power Supply) optional function with external EPS box, 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

Get in touch now:

Global: +86 571-56260008

AU: +61 1300 476529

Website: www.solaxpower.com

DE: +49 7231 4180999

UK: +44 2476 586998

Email: info@solaxpower.com





X1-Hybrid

X1-Hybrid Ready Inverter

X1-Hybrid

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 | | 1 | 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 Consumption [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 | | | 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 (EPS=EMERGENCY POWER SUPPLY) | | | | | | |
| 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 | |

*Can be modified without notice.(V2)