

# X-HYBRID

## SOLAR INVERTER

SOLAR ENERGY – DAY AND 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.

**E** SERIES  
with **EPS**

With a standard inverter, a typical solar powered property will use as little as 25% of the free energy it generates; exporting the rest to the grid. With X-Hybrid, 'self-use' can increase to in excess of 80% providing both financial and practical benefits to the customer.

### Key features

- X** Emergency Power Supply
- X** MPPT efficiency up to 99%
- X** Maximum efficiency up to 97.6%
- X** Maximum DC input voltage of 580V
- X** Dual MPP tracker and wide MPPT voltage range for more flexibility
- X** Manage remotely via built-in CT and WiFi monitoring
- X** Programmable Export Control



SK-SU3000E  
SK-SU3700E  
SK-SU5000E



Monitor your system day and night in real time via the X-Cloud.

All SolaX Hybrid inverters come with WiFi as standard.

# TECHNICAL DATA

## X-HYBRID



| MODEL                              | SK-SU3000E   | SK-SU3700E | SK-SU5000E |
|------------------------------------|--|------------|------------|
| <b>INPUT DC</b>                    |  |            |            |
| 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  |            |            |
| Max. short circuit current [A]     | 15/15  |            |            |
| No. of MPP trackers                | 2  |            |            |
| Strings per MPP tracker            | 1  |            |            |
| <b>OUTPUT AC</b>                   |  |            |            |
| AC Nominal Power (W)               | 3000   | 3680       | 4600       |
| Nominal AC Voltage; Range (V)      | 230VAC 50/60 Hz 180~270VAC   |            |            |
| AC Nominal Current (A)             | 13   | 16         | 20         |
| Max. AC Current (A)                | 14.4   | 16         | 22.1       |
| Total Harmonic Distortion (THD)    | <3%  |            |            |
| Power Factor (Rated Power)         | 1  |            |            |
| <b>EFFICIENCY</b>                  |  |            |            |
| MPPT Efficiency                    | 99.9%  |            |            |
| Euro-Efficiency                    | 97.0%  |            |            |
| Max. Efficiency                    | 97.6%  |            |            |
| Charge Efficiency                  | 94%  |            |            |
| Discharge Efficiency               | 94%  |            |            |
| Standby Losses                     | <7W  |            |            |
| <b>CHARGER (BMU)</b>               |  |            |            |
| Nominal Voltage [V]                | 48   |            |            |
| Voltage Range [V]                  | 40-60  |            |            |
| Battery Type                       | Lithium (LFP)  |            |            |
| Max. Charging Current              | 50   |            |            |
| Over Current Protection            | Yes  |            |            |
| Over Temperature Protection        | Yes  |            |            |
| <b>CHARGE &amp; DISCHARGE</b>      |  |            |            |
| Max. Charge Power [W]              | 2500   |            |            |
| Max. Charge Current [A]            | 50   |            |            |
| Max. Charge Efficiency             | 94%  |            |            |
| Max. Discharge Power [W]           | 2500   |            |            |
| Max. Discharge Charge Current [A]  | 50   |            |            |
| Max. Discharge Charge Efficiency   | 94%  |            |            |
| Depth of Discharge                 | 80% (adjustable)   |            |            |
| <b>OTHERS</b>                      |  |            |            |
| Operating Temperature Range [°C]   | -10~+50 (derating at 40)   |            |            |
| Storage Stability Range [°C]       | -20~+60  |            |            |
| Altitude Limit [m]                 | <2000  |            |            |
| Cooling Concept                    | Forced airflow   |            |            |
| Display                            | LCD (16*4)   |            |            |
| Communications                     | Ethernet/WiFi  |            |            |
| Noise Emission (typical) [dB]      | 40   |            |            |
| Humidity [%]                       | 0~95 (non-condensing)  |            |            |
| Protection                         | IP20 (indoor use)  |            |            |
| EMC Standard                       | IEC61000-6-2, IEC62109-6-3, IEC61000-3-2/-3-12, IEC61000-3-3/-3-11 |            |            |
| Topology                           | Transformerless  |            |            |
| Warranty                           | 5 year   |            |            |
| Dimensions W x H x D [mm]          | 490 x 595 x 167  |            |            |
| Weight [kg]                        | 23.5   |            |            |
| Certification                      | G83/2  | G83/2      | G59/3      |
| <b>EPS (with internal charger)</b> |  |            |            |
| EPS Rated Power [A]                | SK-SU3000E   | SK-SU3700E | SK-SU5000E |
| EPS Rated Power [W]                | 2000   |            |            |
| EPS rated Voltage, Frequency       | 230VAC, 50/60Hz  |            |            |
| EPS Rated Current [A]              | 9  |            |            |
| EPS Peak Power [A]                 | 1.5xRP, 10s  |            |            |
| Total Harmonic Distortion (THD)    | <3%  |            |            |
| Switch Time                        | <5s  |            |            |