



Engineered For Solar

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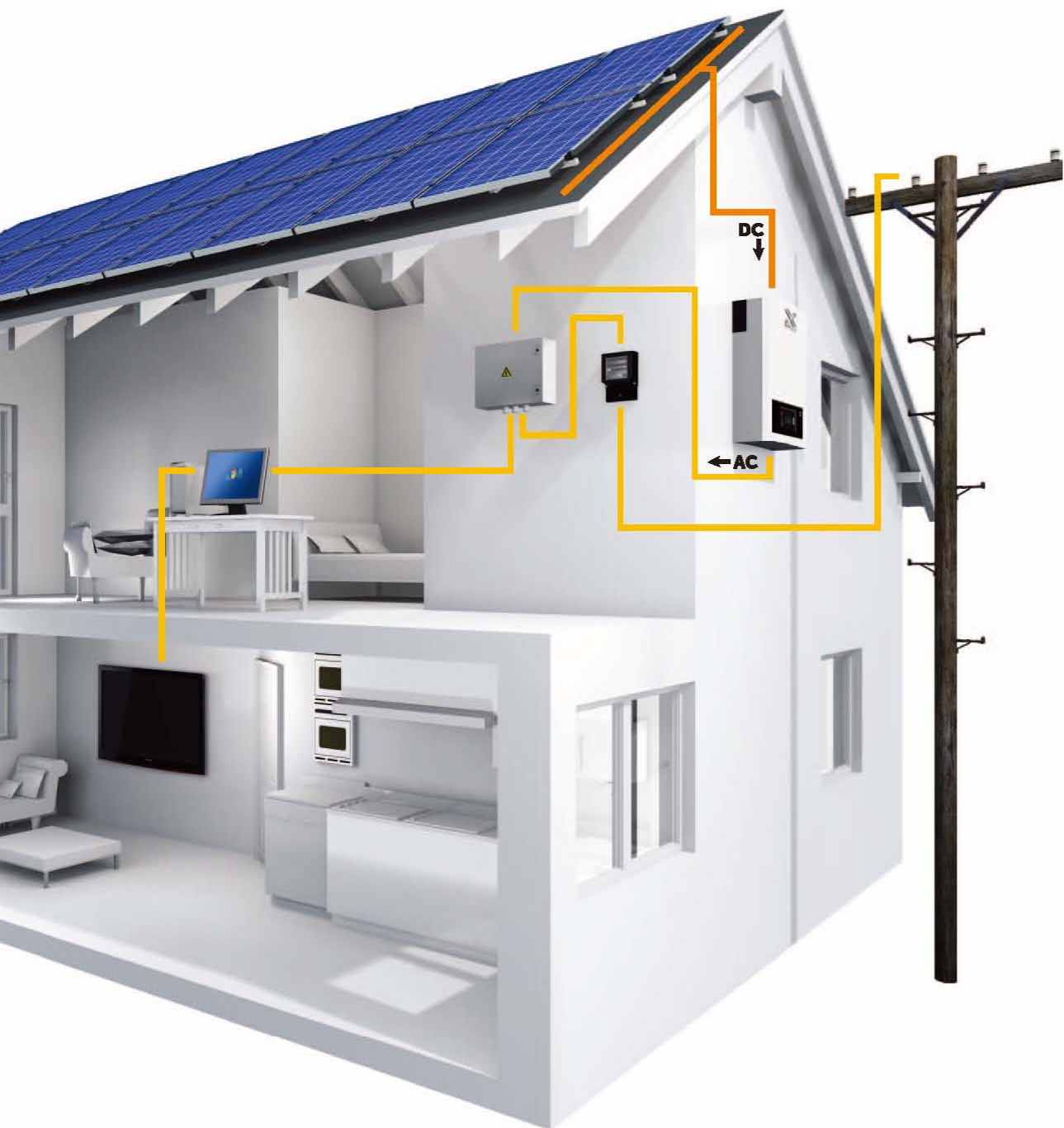
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SolaX Inverter
PRODUCT BROCHURE



THE SOLAX INVERTER

The solar inverter is a critical technological component that is the heart of any PV plant. A solar inverter or PV inverter, converts the variable direct current (DC) output of a photovoltaic (PV) solar panel into a utility frequency alternating current (AC) that can be stored or fed into a commercial electrical grid, allowing the use of ordinary commercial appliances. At SolaX we are creating the inverters for tomorrow.





Our state-of-the-art facilities include an SMT machine, automatic plug in line and our TÜV testing laboratory.

ABOUT SOLAX POWER

A division of the Suntellite Group, our vision is to be a world leader in the development, production and sales of inverters that incorporate innovative technologies and state of the art capabilities, providing our customers the power to harvest green energy.

To create this technology we have employed more than 80 professors and senior engineers at our state of the art 240,000m² production facility, that boasts over USD\$20,000,000 of investment in professional equipment, including our SMT machine, automatic plug in line and our TÜV testing laboratory. A company lead by innovation that is based on research, SolaX Power is proud to be affiliated with the Zhejiang University, currently ranked third amongst the best universities in China and home to the only national key silicon material laboratories

With this level of investment and innovation, SolaX products are designed, tested and manufactured to the highest global standards. Proudly supported by 16 international offices with 24-hour, 7 days per week online service, our products are exported to 47 countries via 200 distribution channels. SolaX products come with international module certifications such as TÜV, CE, SAA, UL, MCS, ROHS and inverter certificates, VDE, SAA, EN50438, G83, G59, C10/11.

As a brand committed to the responsibility of "planting a greener future" for you and your family, we have built a world class production facility with a leading professional research and development team. Our commitment is to supply to our customers a more advanced, reliable, safer and cost-effective range of PV products and energy system solutions, that are engineered to meet the world's growing energy demands.



GREENER FUTURE
GLOBAL STANDARDS
INNOVATIVE TECHNOLOGIES



SOLAX SOLAR INVERTER

SL-TL1500 / 2200 / 2800 / 3000 / 3600

High efficiency and long time working

SINGLE PHASE

High performance

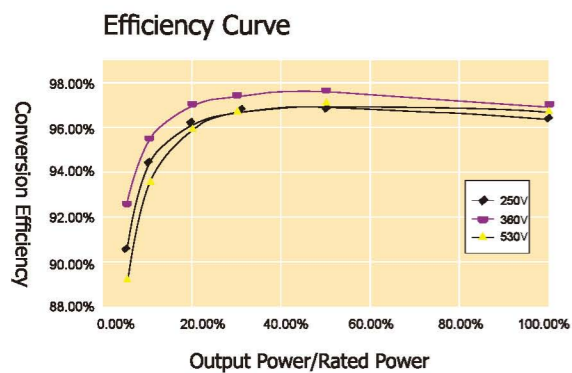
- MPPT efficiency up to 99.9%
- Maximum efficiency up to 97.6%
- Maximum DC input voltage at 580V
- Wide MPPT voltage range allows more energy harvesting

Flexibility and reliability

- Lower starting voltage and longer working time
- Fanless, quiet and low maintenance cost
- High protection class IP65 (indoor/outdoor use)
- Multiple protections: RCD, isolation, over voltage, and earth protection, etc

User-friendly

- Multi-lingual display
- Backlight 16 x 2 character LCD
- RS485, WIFI and 3G (optional) communication for monitoring
- "Plug and play" connection for easy installation and maintenance



Technical Data

| Inverter Model | SL-TL1500 | SL-TL2200 | SL-TL2800 | SL-TL3000 | SL-TL3600(UK Only) |
|---|-------------------------------|-----------|-----------|-----------|--------------------|
| ► Input(DC) | | | | | |
| Max.recommended DC power[W] | 1700 | 2300 | 3000 | 3200 | 4000 |
| Max. starting DC voltage [V] | 580 | 580 | 580 | 580 | 580 |
| Max. input current [A] | 10 | 12 | 13.8 | 15 | 17 |
| MPPT voltage range [V] | 125-530 | 125-530 | 125-530 | 125-530 | 125-530 |
| Shut down input voltage/start input voltage [V] | 70/100 | 70/100 | 70/100 | 70/100 | 70/100 |
| No. of MPP trackers/strings per MPP tracker | 1/1 | 1/1 | 1/2 | 1/2 | 1/2 |
| ► Output(AC) | | | | | |
| Nominal AC power [W] | 1500 | 2000 | 2600 | 3000 | 3600 |
| Max. AC power [W] | 1650 | 2200 | 2800 | 3000 | 3600 |
| Nominal AC voltage; range [V] | 220/230/240; 180-280 | | | | 207-264(G83/2) |
| AC grid frequency; range [Hz] | 50/60; ±5 | | | | 47-50.5(G83/2) |
| Max. AC current [A] | 7.5 | 10 | 13 | 13.2 | 16 |
| Power factor (full load) | >0.99 | >0.99 | >0.99 | >0.99 | >0.99 |
| Total harmonic distortion (THD) | <3% | <3% | <3% | <3% | <3% |
| ► Efficiency | | | | | |
| MPPT efficiency | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |
| Euro-efficiency | 96.5% | 96.8% | 96.9% | 96.9% | 96.9% |
| Max. efficiency | 97.4% | 97.5% | 97.6% | 97.6% | 97.6% |
| ► Power consumption | | | | | |
| Input standby power [W] | <3.5 | <3.5 | <3.5 | <3.5 | <3.5 |
| Internal consumption (night) [W] | 0 | 0 | 0 | 0 | 0 |
| ► Safety and protection | | | | | |
| Internal overvoltage protection | Yes | | | | |
| DC insulation monitoring | Yes | | | | |
| Grid monitoring | Yes | | | | |
| Earth fault current monitoring | Yes | | | | |
| DC current monitoring | Yes | | | | |
| Islanding protection | Yes | | | | |
| RCD protection | Yes | | | | |
| ► Environment limits | | | | | |
| Protection class | IP65 | | | | |
| Operating temperature range [°C] | -20~60 (derating at 45) | | | | |
| Humidity [%] | 0~95 (non-condensing) | | | | |
| Altitude [m] | 2000 | | | | |
| Storage temperature [°C] | -20~60 | | | | |
| Noise emission (typical) [dB] | <30 | | | | |
| ► Dimensions and weight | | | | | |
| Dimensions (WxHxD) [mm] | 376 x 437 x 143 | | | | |
| Weight [kg] | 16 | 16 | 16.5 | 16.5 | 16.5 |
| Cooling concept | Natural cooling | | | | |
| Topology | Transformer-less | | | | |
| Communication interfaces | RS485/RS232 (WIFI standard) | | | | |
| LCD display | Backlight, 16x2 character LCD | | | | |
| Standard warranty [years] | 5 (10 optional) | | | | |



X1



SOLAX SOLAR INVERTER

SL-TL3300T / 3600T / 4400T / 5000T

High efficiency and wider usage

SINGLE PHASE DUAL MPPT

High performance

- MPPT efficiency up to 99.9%
- Maximum efficiency up to 97.6%
- Maximum DC input voltage at 580V
- Dual MPP trackers and wide MPPT voltage range for more flexibility
- Configuration and higher yield

Flexibility and reliability

- Lower starting voltage and longer working time
- Fanless, quiet and low maintenance cost
- High protection class IP65 (indoor/outdoor use)
- Multiple protections: RCD, isolation, over voltage, and earth protection, etc

User-friendly

- Multi-lingual display
- Backlight 16 x 2 character LCD
- RS485, WIFI and 3G (optional) communication for monitoring
- "Plug and play" connection for easy installation and maintenance



Technical Data

| Inverter Model | SL-TL3300T | SL-TL3600T | SL-TL4400T | SL-TL5000T |
|---|-------------------------------|------------|----------------------|----------------------|
| ► Input (DC) | | | | |
| Max. recommended DC power [W] | 3480 | 4000 | 4580 | 5200 |
| Max. starting DC voltage [V] | 580 | 580 | 580 | 580 |
| Max. input current [A] | 17/17 | 17/17 | 18/18 | 20/20 |
| MPPT voltage range [V] | 125-530 | 125-530 | 125-530 | 125-530 |
| Shut down input voltage/start input voltage [V] | 70/100 | 70/100 | 70/100 | 70/100 |
| No. of MPP trackers/strings per MPP tracker | 2/A:1 B:1 | 2/A:1 B:1 | 2/A:1 B:1 | 2/A:1 B:1 |
| ► Output (AC) | | | | |
| Nominal AC power [W] | 3000 | 3680 | 4000 | 4600 |
| Max. AC power [W] | 3300 | 3680 | 4400 | 5000 |
| Nominal AC voltage; range [V] | 220/230/240; 180-280 | 207-264 | 220/230/240; 180-280 | 220/230/240; 180-280 |
| AC grid frequency; range [Hz] | 50/60; ±5 | 47-50.5 | 50/60; ±5 | 50/60; ±5 |
| Max. AC current [A] | 15 | 16 | 20 | 23 |
| Power factor (full load) | >0.99 | >0.99 | >0.99 | >0.99 |
| Total harmonic distortion (THD) | <3% | <3% | <3% | <3% |
| ► Efficiency | | | | |
| MPPT efficiency | 99.9% | 99.9% | 99.9% | 99.9% |
| Euro-efficiency | 97.1% | 97.1% | 97.2% | 97.2% |
| Max. efficiency | 97.6% | 97.6% | 97.6% | 97.6% |
| ► Power consumption | | | | |
| Input standby power [W] | <3.5 | <3.5 | <3.5 | <3.5 |
| Internal consumption (night) [W] | 0 | 0 | 0 | 0 |
| ► Safety and protection | | | | |
| Internal overvoltage protection | Yes | | | |
| DC insulation monitoring | Yes | | | |
| Grid monitoring | Yes | | | |
| Earth fault current monitoring | Yes | | | |
| DC current monitoring | Yes | | | |
| Islanding protection | Yes | | | |
| RCD protection | Yes | | | |
| ► Environment limits | | | | |
| Protection class | IP65 | | | |
| Operating temperature range [°C] | -20~60(derating at 45) | | | |
| Humidity [%] | 0~95 (non-condensing) | | | |
| Altitude [m] | 2000 | | | |
| Storage temperature [°C] | -20~60 | | | |
| Noise emission (typical) [dB] | <30 | | | |
| ► Dimensions and weight | | | | |
| Dimensions (WxHxD) [mm] | 435x595x145 | | | |
| Weight [kg] | 21.5 | 22 | 22 | 22 |
| Cooling concept | Natural cooling | | | |
| Topology | Transformer-less | | | |
| Communication interfaces | RS485/RS232 (WIFI standard) | | | |
| LCD display | Backlight, 16x2 character LCD | | | |
| Standard warranty [years] | 5 (10 optional) | | | |



**X1
NEW**



SOLAX SOLAR INVERTER

X1-LX 3600 / 4600 / 5200

Export Control & Cable Monitoring

SINGLE PHASE DUAL MPPT

High performance

- High MPPT efficiency up to 99.9%
- Max DC to AC efficiency up to 97.6%
- Dual MPP trackers can work either independently or parallel.
- Wide MPPT working range.

Flexibility and reliability

- Fanless design, quiet, low maintenance cost and long life span.
- High protection class IP65 for indoor and outdoor use.
- Easy installation, hang and fix, no need to align to the hole.
- Power factor adjustable.
- Export control, no impact to the grid
- Load control function (with an optional I/O card and sockets) reducing the energy cost.

User-friendly

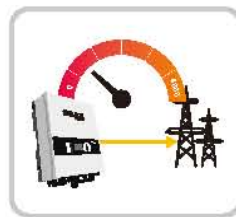
- Integrated DC switch.
- Integrated WIFI and cabling function with free monitoring system.
- Professional settings with multilayer password management.
- Easy upgrading via the ethernet port.



Load Remote Control



Internal WIFI & Remote Monitoring



Export Control to the Grid



Easy Upgrading via Ethernet Port

Technical Data

| Model | X1-LX 3600 | X1-LX 4600 | X1-LX 5200 |
|---|------------|---|------------|
| ► Input(DC) | | | |
| Max. DC input power [W] | 4000 | 4600 | 5200 |
| Max. PV voltage [V] | | 550 | |
| Rated input voltage [V] | | 360 | |
| Max. DC input current per string [A] | 12/12 | 12/12 | 12/12 |
| Max. DC short-circuit per input [A] | 15/15 | 15/15 | 15/15 |
| MPPT voltage range [V] | 125-530 | 125-530 | 125-530 |
| Start input voltage [V] | 100 | 100 | 100 |
| Start output voltage [V] | 150 | 150 | 150 |
| Shut down voltage [V] | 70 | 70 | 70 |
| No. of MPPT inputs | 2 | 2 | 2 |
| No. of strings per MPPT input | 1 | 1 | 1 |
| DC switch | | Optional | |
| ► Output (AC) | | | |
| Rated output power [W] | 3680 | 4200 | 4600 |
| Rated grid voltage (Range) [V] | | 220/230/240 (180 to 280) | |
| Rated grid frequency (Range) [Hz] | | 50 (45 to 55) / 60 (55 to 65) | |
| Nominal AC current [A] | 16 | 18 | 20 |
| Max. output current [A] | 16 | 20 | 22 |
| Total harmonic distortion [THD] | | <3% | |
| Maximum output overcurrent protection [A] | | 25 | |
| Displacement power factor, adjustable | | 0.9 leading to 0.9 lagging | |
| Feed in phase | | Single-phase | |
| Over voltage category | | III (electric supply side), II (PV side) | |
| ► 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% |
| ► Safety and Protection | | | |
| Over voltage/under voltage protection | | Yes | |
| DC isolation impedance monitoring | | Yes | |
| Grid monitoring | | Yes | |
| Ground fault current monitoring | | Yes | |
| DC injection monitoring | | Yes | |
| Residual current detection | | Yes | |
| Anti-islanding protection | | Yes | |
| Overload protection | | Yes | |
| Overheat protection | | Yes | |
| ► Others | | | |
| Dimension (W/H/D) [mm] | | 384 x 462 x 152.5 | |
| Dimension of packing (W/H/D) [mm] | | 504 x 614 x 234 | |
| Weight [kg] | | 17 | |
| Gross weight [kg] | | 20 | |
| Cooling concept | | Natural cooling | |
| Noise emission [dB] | | <25 | |
| Operating temperature range [°C] | | -20~+60 (derating at 45) | |
| Store temperature [°C] | | -20~+60 | |
| Max. permissible relative humidity (non-condensing) | | 0%~90% | |
| Altitude [m] | | <2000 | |
| Degree of protection | | IP65 | |
| Topology | | Transformer-less | |
| Internal consumption [W] | | <3 | |
| LCD display | | Backlight 16*4 character | |
| Communication interface | | Ethernet / WIFI / Dry contact / I/O(Optional)/Smart meter(Optional) | |
| Standard warranty | | Standard 5 years | |



SOLAX SOLAR INVERTER

ZDNY-TL10000 / 12000 / 15000 / 17000 / 20000

Optimised three phase inverter

THREE PHASE DUAL MPPT

High performance

- MPPT efficiency up to 99.9%
- Maximum efficiency up to 98.2%
- Maximum DC input voltage at 1000V
- Photon Double Rated
- Dual MPP trackers and wide MPPT voltage range for more flexibility
- Configuration and higher yield

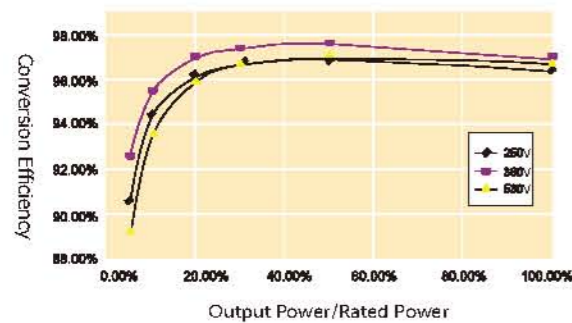
Flexibility and reliability

- Integrated DC switch
- Temperature controlled fan
- High protection class IP65 (indoor/outdoor use)
- Multiple protections: RCD, isolation, over voltage, and earth protection, etc

User-friendly

- Multi-lingual display
- Graphic LCD display
- RS485, WIFI(Optional) and 3G (optional) communication for monitoring
- "Plug and play" connection for easy installation and maintenance

Efficiency Curve



Technical Data

| Inverter Model | ZDNY-TL10000 | ZDNY-TL12000 | ZDNY-TL15000 | ZDNY-TL17000 | ZDNY-TL20000 |
|--|--|--------------|--------------|--------------|--------------|
| ► Input (DC) | | | | | |
| Max. DC input power [W] | 10260 | 12300 | 15370 | 17420 | 20500 |
| Max. DC input voltage [V] | 1000 | 1000 | 1000 | 1000 | 1000 |
| Max. input current [A] | A:22/B:11 | A:22/B:11 | A:22/B:22 | A:22/B:22 | A:22/B:22 |
| MPPT voltage range [V] | 320-800 | 380-800 | 350-800 | 400-800 | 480-800 |
| Min. DC voltage/starting voltage [V] | 220/250 | 220/250 | 220/250 | 220/250 | 220/250 |
| No. of MPP trackers/strings per MPP tracker | 2/A:3 B:1 | 2/A:3 B:1 | 2/A:3 B:3 | 2/A:3 B:3 | 2/A:3 B:3 |
| ► Output (AC) | | | | | |
| Nominal AC power [W] | 10000 | 12000 | 15000 | 17000 | 20000 |
| Max. AC power [W] | 10000 | 12000 | 15000 | 17000 | 20000 |
| Nominal AC voltage; range [V] | 3/N/PE~230/400; 160-280 | | | | |
| AC grid frequency; range [Hz] | 50; 44-55 | | | | |
| Max. AC current [A] | 16 | 20 | 24 | 25 | 29 |
| Power factor (Full load) | 0.9 leading to 0.9 lagging | | | | |
| Total harmonic distortion (THD) | <3% | <3% | <3% | <3% | <3% |
| ► Efficiency | | | | | |
| MPPT efficiency | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |
| Euro-efficiency | 97.6% | 97.6% | 97.6% | 97.6% | 97.6% |
| Max. efficiency | 98.2% | 98.2% | 98.2% | 98.2% | 98.2% |
| ► Power consumption | | | | | |
| Input standby power [W] | <10 | <10 | <10 | <10 | <10 |
| Internal consumption (night) [W] | <1 | <1 | <1 | <1 | <1 |
| ► Safety and protection | | | | | |
| DC disconnect device | Yes | | | | |
| Internal overvoltage protection | Yes | | | | |
| DC current/insulation monitoring | Yes/Yes | | | | |
| Grid monitoring/Earth fault monitoring | Yes/Yes | | | | |
| Islanding protection | Yes | | | | |
| RCD protection | Yes | | | | |
| Protection class(IEC62103)/overvoltage category (IEC60664-1) | I/III | | | | |
| ► Environment limits | | | | | |
| Protection class | IP65 (IP54 for fan) | | | | |
| Operating temperature range [°C] | -20~60 (derating at 45) | | | | |
| Humidity [%] | 0~95 (non-condensing) | | | | |
| Altitude [m] | 2000 | | | | |
| Storage temperature [°C] | -20~60 | | | | |
| Noise emission (typical) [dB] | <50 | | | | |
| ► Dimensions and weight | | | | | |
| Dimensions (WxHxD) [mm] | 513 x 651.5 x 207 | | | | |
| Weight [kg] | 48 | 48 | 50.5 | 50.5 | 51 |
| Cooling concept | Temperature controlled fan | | | | |
| Topology | Transformer-less | | | | |
| Communication interfaces | RS485/RS232/Dry contact (WIFI,3G optional) | | | | |
| LCD display | Graphic LCD | | | | |
| Standard warranty [years] | 5 (10 optional) | | | | |



USE ENERGY, STORE IT, OR FEED IT INTO THE GRID, IT IS NOW POSSIBLE WITH X-HYBRID.

Achieve your independence from traditional power providers considering the intelligent SolaX Hybrid Series with charger.

As we know, Solar panels generate the most energy during the day when the sun is shining and when you and your family tend to use the least energy or have the lowest consumption levels.

With ongoing increases in energy prices and the continual decrease of the feed-in tariff, you must make the most out of your solar energy. Our X-Hybrid Energy Storage System is the perfect solution to solve this problem and to get the most out of your solar energy both today and into the future. Our Hybrid solution makes 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.

Main Features:

- An enlarged internal charger, multiple external charger size for choice
- EPS (Emergency Power Supply) function
- Low consumption mode at night
- Support external alarm system
- Anti-battery polarity reverse and anti-current surge
- Battery awakening function
- Battery temperature protection
- WIFI/Cable monitoring
- Firmware upgrading via ethernet port



SK-TL3000/SK-TL3700/SK-TL5000 (E) WITH EXTERNAL CHARGER

X-Hybrid Ready Inverter

SK-TL3000 / SK-TL3700 / SK-TL5000 (E)

Prepare for energy independence by using this premium quality hybrid ready inverter. This unit gives you the opportunity to monitor property loads over time and evaluate your energy usage patterns.



SK-SU3000/SK-SU3700/SK-SU5000 (E) BUILT-IN CHARGER

X-Hybrid Inverter

SK-SU3000 / SK-SU3700 / SK-SU5000 (E)

The SU series of hybrid inverter includes 1 built-in battery manager unit and solar MPPT. This intelligent hybrid inverter provides a full solution for energy consumers to maximize the use of their generated solar energy and minimize their energy bills.

Emergency Power Supply
Power your home during grid outage

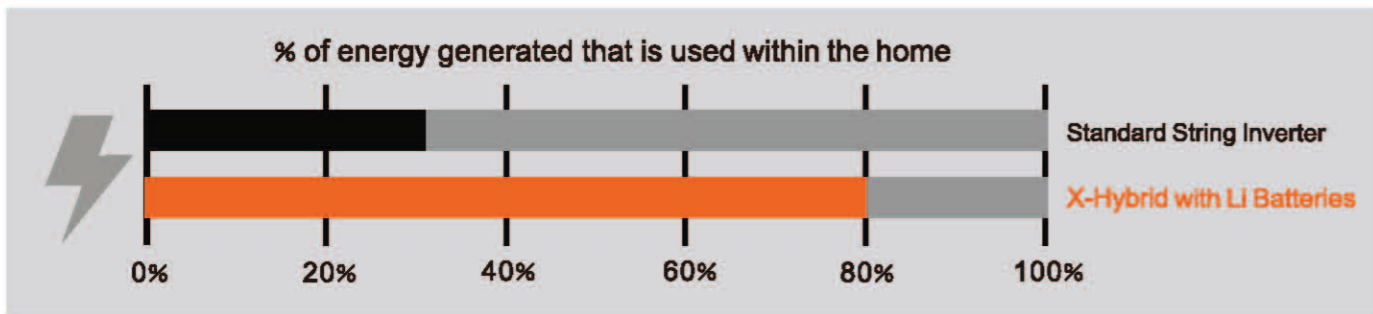
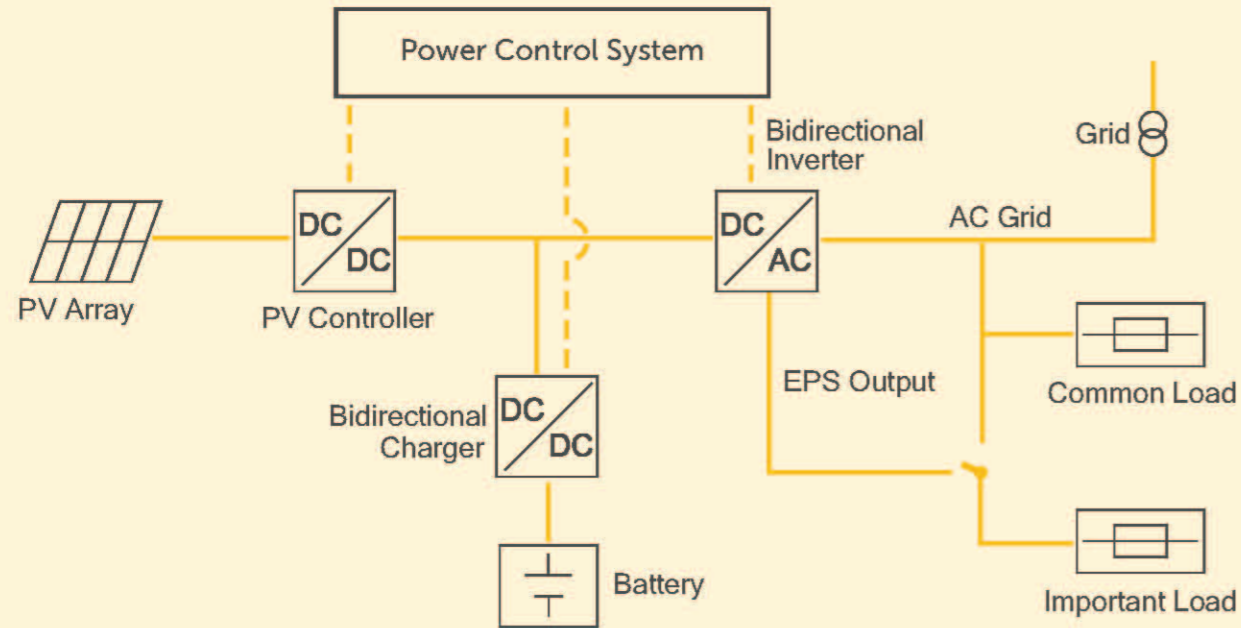


HYBRID WORKING THEORY

X-Hybrid Self-use Energy Storage System converts DC electricity generated by solar panels to AC electricity for grid and load to DC for the battery.

The electricity will be provided for load first, and the excessive electricity will be stored in the battery,

after the battery is fully charged, the electricity will be fed into the grid. Once the power goes down, the inverter will activate the Emergency Power Supply (EPS) to ensure the energy from the panels and batteries can be used to power the home.



X-HYBRID ADVANTAGES

COMPARED TO TRADITIONAL GRID-TIED SOLAR SYSTEM

- Save money on your power bills by increasing the proportion of self-use electricity generated by your solar system from 30% to more than 80%.
- Save money by becoming independent from ever increasing energy prices.
- Reduce stress on the grid by reducing your solar power feed.
- Manage property consumption and generation remotely via built-in WIFI monitoring solution.

COMPARED TO OTHER BRANDS

- Reliable**
 - European and American and Japanese made key components.
- Efficient**
 - Highly effective solar power utilisation and long battery life by intelligent designed charging module.
- User-friendly**
 - Intelligent man-machine interaction mode.

X-Hybrid Ready Inverter (City Solution)

| Model | SK-TL3000C | SK-TL3700C | SK-TL5000C |
|---|------------|---|------------|
| 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 | 22.1 |
| Total harmonic distortion (THD) | | <3% | |
| Power factor (rated power) | | 1 | |
| Displacement power factor | | 0.9leading to 0.9lagging | |
| 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/Dry contact /WIFI | |
| LED light | | 4 | |
| Button | | 4 | |
| Others | | | |
| DC switch | | Optional | |
| Max. No. of supported external charger | | 1 | |
| 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 | | Standard 5 years | |
| Dimensions (W / H / D) [mm] | | 475 x 591 x 151 | |
| Weight [kg] | | 21 | |
| Certificate | | Germany, Australia, Belgium, Netherlands, Denmark, Austria, UK, Italy | |

X-Hybrid Ready Inverter (Emergency Power Supply)

| Model | SK-TL3000E | SK-TL3700E | SK-TL5000E |
|--|-----------------|-----------------|-----------------|
| EPS with external charger (support 25A/50A/100A charger) | | | |
| EPS rated power [VA] | 1000/2000/3000 | 1000/2000/3680 | 1000/2000/4000 |
| EPS rated voltage [V], Frequency [Hz] | | 230, 50/60 | |
| EPS rated current [A] | 4.5/9/13 | 4.5/9/16 | 4.5/9/17 |
| EPS peak power [VA] | 1.5xPrated, 10s | 1.5xPrated, 10s | 1.5xPrated, 10s |
| Total harmonic distortion (THD) | | <3% | |
| Switch time [S] | | <5 | |



X-Hybrid Inverter (City Solution) (Continued)

| Model | SK-SU3000C | SK-SU3700C | SK-SU5000C |
|---|---|------------|------------|
| ► Battery Charger (Inside) | | | |
| 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 | | |
| ► Charge | | | |
| Max. power [W] | 2500 | | |
| Max. charge current [A] | 50 | | |
| ► Discharge | | | |
| Max. power [W] | 2500 | | |
| Max. discharge current [A] | 50 | | |
| Depth of discharge | 80% for lithium battery (adjustable) 50% for lead-acid battery | | |
| ► 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 | | |
| ► 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 | Standard 5 years | | |
| Dimensions (W / H / D) [mm] | 700 x 591 x 151 | | |
| Weight [kg] | 27.7 | | |
| Certificate | Germany, Australia, Belgium, Netherlands, Denmark, Austria, UK, Italy | | |

X-Hybrid Inverter (City Solution)

| Model | SK-SU3000C | SK-SU3700C | SK-SU5000C |
|---|----------------------------|------------|------------|
| ► 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 | 22.1 |
| Total harmonic distortion (THD) | <3% | | |
| Power factor (Rated Power) | 1 | | |
| Displacement power factor | 0.9leading to 0.9lagging | | |
| ► Display | | | |
| Communication interfaces | Backlight 16*4 character | | |
| LED light | Ethernet/Dry contact /WIFI | | |
| Button | 4 | | |
| LCD | 4 | | |

Table continued overleaf

X-Hybrid Inverter (Emergency Power Supply)

| Model | SK-SU3000E | SK-SU3700E | SK-SU5000E |
|---------------------------------------|-----------------|-----------------|-----------------|
| ► 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] | 1.5xPrated, 10s | 1.5xPrated, 10s | 1.5xPrated, 10s |
| Total harmonic distortion (THD) | <3% | | |
| Switch time [S] | <5 | | |



SOLAX SOLAR CHARGER

SK-BMU1300 / 2500 / 5000

The SolaX battery manager can be used with SK-TL series inverter for extending the battery capability of self use. Three options give more flexibility when build up your own energy storage system.



SK-BMU1300/2500



SK-BMU5000

X-Hybrid Battery Manager Unit

| Model | SK-BMU1300 | SK-BMU2500 | SK-BMU5000 |
|---|---|-----------------|------------|
| ▶ Battery Manager | | | |
| Battery type | Lead-acid battery/lithium battery | | |
| Battery nominal voltage [V] | 48 | | |
| Battery voltage range [V] | 40-60 | | |
| Battery capacity [KWh] (Suggested) | 4.8 | 10 | 20 |
| Max. charging current [A] | 25 | 50 | 100 |
| Charging curve | 3-stage adaptive with maintenance | | |
| Over-current protection/Over-temperature protection | Yes | Yes | Yes |
| Communication interfacess | Can/RS232 | Can/RS232 | Can/RS232 |
| ▶ Charge | | | |
| Max. power [W] | 1300 | 2500 | 4600 |
| Max. charge current [A] | 25 | 50 | 100 |
| ▶ Discharge | | | |
| Max. power [W] | 1300 | 2500 | 4600 |
| Max. discharge current [A] | 25 | 50 | 100 |
| Depth of discharge | 80% for lithium battery 50% for lead-acid battery (adjustable) | | |
| ▶ Others | | | |
| 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) | | |
| EMC standard | IEC61000-6-1/2/3/4 | | |
| Warranty | Standard 5 years | | |
| Dimensions (W / H / D) [mm] | 289 x 595 x 167 | 460 x 595 x 167 | |
| Weight [kg] | 15.7 | 19 | |
| Certificate | Germany, Australia, Belgium, Netherlands, Denmark, Austria, UK, Italy | | |
| Battery reverse polarity protection | Yes | | |
| Battery anti-shock design | Yes | | |



BEST PRODUCT FOR HOME ENERGY STORAGE

Fastest ROI

- Larger charging pipeline consumes all energy generated by PV
- Deeper DoD to save and use more energy
- Superb life cycles ensure the lowest cost per Wh.time

Designed for home usage

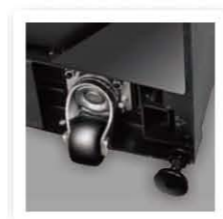
- Smaller footprint, superior aesthetics, minimal maintenance
- Modular design for easy installation and product swap
- Less temperature sensitivity, can be put indoor or outdoor

Designed for safety

- Natural olive structure, hardly catching fire even in severe environment
- Multiple layer protection method to ease any current/voltage/temperature risk Intelligent BMS report and alarm any abnormal status in real time



Material of the cabinet is cold rolled plate



Material for wheels are rubber with stainless stabilizer



• Lithium Battery



• Lithium Battery Cabinet

Lithium Battery

| Basic Parameters | Extra2000 |
|--------------------------------------|----------------------------------|
| Life span (25°C/77°F) | 10 years |
| Life span (40°C/122°F) | 8 years |
| Life cycles (80%DOD, 25°C/77°F) | ≥4000 |
| Maintenance | Free in quality guarantee period |
| Backup duration (Average Power 500W) | ≥5h |
| Storage time (25°C/77°F) | 6 Months power off |
| Operation temperature | -25°C~60°C(-13°F~77°F) |
| Storage temperature | -40°C~80°C(-40°F~176°F) |
| Seismic standard | GR-1089 |
| Transport standard | UN 3090 |
| EMC standard | IEC 61000, EN 55022 |
| Environmental standard | GB/T 2423 |
| The authentication level | TUV, CE, CCC, TLC5 |

► Nominal Parameters

| | |
|---------------|------|
| Voltage [V] | 48 |
| Capacity [Ah] | 50 |
| Capacity [Wh] | 2400 |

► Structural Parameters

| | |
|-------------|---------|
| Height [mm] | 120(3U) |
| Length [mm] | 422 |
| Width [mm] | 370 |
| Weight [kg] | 28±05 |

► Electrical Parameters

| | |
|-------------------------------|-----------|
| Operating voltage [V] | 42~54 |
| Charge voltage [V] | 53.5~56.5 |
| Maximum discharge current [A] | 25 |

► Communication Parameters

| | |
|-------------------------|------------------|
| Network interface | ZARS232 |
| Communication protocols | YD/T 1363.3-2005 |

Lithium Battery Cabinet

| MODEL | SIZE WxDxH (mm) | CARTON MEASUREMENT WxDxH (mm) | VOLUME/CBM |
|-------------|--------------------|----------------------------------|------------|
| XLB06 (6U) | 600x450x368 | 670x520x430 | 0.15 |
| XLB09 (9U) | 600x450x501 | 670x520x560 | 0.20 |
| XLB12(12U) | 600x450x635 | 670x520x700 | 0.24 |
| XLB18 (18U) | 600x450x901 | 670x520x960 | 0.33 |

Note:

1. U is the standard unit of measure for designating the vertical usable space, or height of racks (metal frame designed to hold hardware devices) and cabinets (enclosures with one or more doors). This unit of measurement refers to the space between shelves on a rack. 1U is equal to 1.75 inches. For example, a rack designated as 20U, has 20 rack spaces for equipment and has 35 (20 x 1.75.) inches of vertical usable space. Rack and cabinet spaces and the equipment which fit into them are all measured in U.
2. Size of battery cabinet depends on the No. of Li batteries. 1 Li battery is 3U, so 22U supports up to 22/3≈7 Li batteries, and so on.

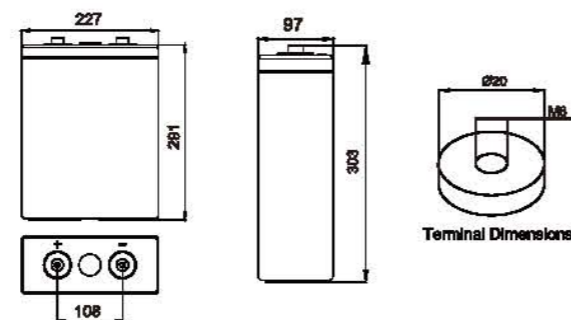


• Lead-acid Battery

LEAD-ACID STORAGE

- Long life design for both cyclic and float application
- Superb security and reliability
- Reasonable design creates robust structure
- Excellent performance of deep discharge recovery and fast recharge
- Extra long back-up time
- More cost effective than nearest equivalent
- Designed for compliance with IEC61427, IEC60896-21/-22, etc.

Dimensions(mm)



Lead-acid Cabinet

| SIZE L x W x H(MM) | NO. OF WHEELS | NO. OF HOLDERS | MAX. LOAD(KG) |
|--------------------|---------------|----------------|---------------|
| 110x45x100 | 0 | 0 | 600 |

Note:

1. Cold rolled plate material.
2. 1 cabinet is designed for 1 group of Lead-acid batteries.



• Lead-acid Battery Cabinet

Technical specifications

| Electrical Data | |
|-----------------------|--|
| Nominal voltage | 2V |
| Number of cells | 1 |
| Rated capacity (25°C) | 200Ah-20A for 10h to 1.80V/cell 240Ah-2A for 120h to 1.85V/cell |
| Life cycles | ≥2600 |
| Internal resistance | 0.55mΩ(acc. to IEC 60896-21) |
| Short circuit current | 3700A (acc. to IEC 60896-21) |
| Self discharge (25°C) | Less than 2% per month |
| Designed life at 25°C | 20 years |

| Mechanical Data | |
|--------------------------|------------------|
| Weight ready for use | 17.5kg (39.7lbs) |
| Length | 227mm (8.94in) |
| Width | 96mm (3.78in) |
| Height of monobloc | 291mm (11.93in) |
| Total height | 303mm (11.93in) |
| Terminal | M8 female |
| Terminal hardware torque | 10-12 Nm |

| Construction | |
|-----------------|--|
| Positive plate | Reinforced grids in a corrosion-resistant pure lead, high tin, low calcium alloy |
| Negative plate | Lead-calcium alloy grid |
| Separator | High density microporous glass mat with low electrical resistance |
| Container & lid | High strength ABS(HB). Optional flame retardant versions available(UL94FV-0 with L.O.I. of 28%) |
| Electrolyte | Sulphuric acid with a density of 1.28g/ml absorbed in AGM |
| Terminal design | Patented leak resistant seal configuration with brass insert |
| Safety valve | Calibrated opening pressure, the valve equipped with flame arrestors for increased operational safety and service life |

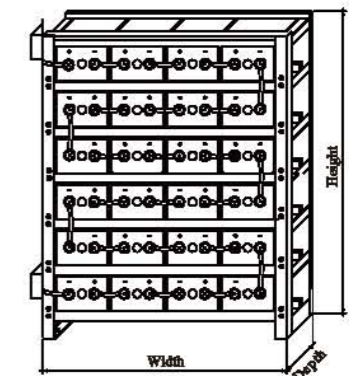
| Installation and operation | |
|---|---|
| Recommended float charge voltage | 2.27V per cell at 25°C |
| Compensation in function of temperature | -3mV/°C/cell |
| Cycle and equalize charge voltage | 2.35V per cell at 25°C |
| Compensation in function of temperature | -5mV/°C/cell |
| CC-CV charge current | Unlimited, otherwise 50A max, if T>25°C |
| Preferred operating temperature range | 15°C to 25°C (68°F to 77°F) |
| Maximum operating temperature range | -40°C to 50°C (-40°F to 122°F) |
| A separate battery room | Not necessary |
| Reduced maintenance | No water addition required |

Racking (optional)

SolaX racks are constructed using strong, easy to assemble, powder-coated steel tubing and come complete with sliding cover terminal (take-off) plates.

| Cell model:REX-200 | Number of cells: 24 | System Voltage: 48 |
|--------------------|---------------------|--------------------|
| Cell Configuration | 4 rows 6 columns | 6 rows 4 columns |
| Rack width(mm) | 1622 | 1048 |
| Rack depth(mm) | 300 | 300 |
| Rack height(mm) | 624 | 886 |
| System weight(kg) | 500 | 490 |

* Please allow 100mm for terminal boxes

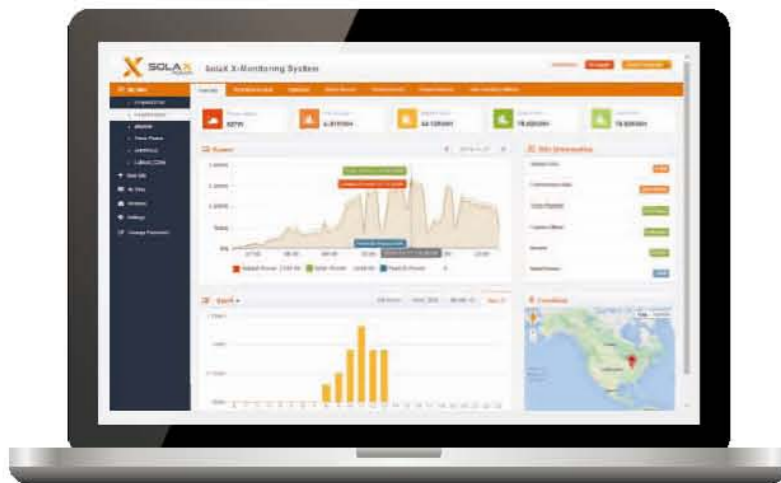




X-MONITORING SYSTEM

X-MONITORING SYSTEM

THEY CAN TALK!



- Special designed for energy storage system
- Multilingual: English, German, Chinese and Italian
- Easy data reading with vivid charts and graphs



- Daily/weekly/monthly report send to designated email address
- Batch inverters monitoring for installers and distributors
- 24 hours monitoring for Windows/Android/Apple devices



COMMON FEATURES FOR ALL MONITORING SYSTEMS

- Remote monitoring via SolaX Portal
- A variety of communication methods available, including Ethernet, WiFi, and 3G
- Quick installation and easy operation with "Plug & Play" function
- Storage of over 25 years
- Graphical display of PV system data on SolaX Portal
- Operational failures can be detected rapidly and transmitted via email
- Report of collected data and performance can be sent via email regularly free standard access to SolaX Portal for the entire service life of the PV system

ZDNY-WE01-D

How it works

1. You install the X app onto your mobile devices.
2. Operating within a 50 meter radius, the X app will then search and connect to the X inverter.
3. Once connected you can then easily monitor the inverter data via our X app and your mobile device.

| | ZDNY-WE01-D |
|---------------------------|---|
| General | |
| Max. number of inverters | 1-64 |
| Inverter communication | RS485/422/232 |
| Remote communication | WiFi(802.11b/g/n)/Ethernet |
| Max. communication range | <1km |
| Data collection intervals | 5 minutes(Default)/1-15 minutes(Optional) |
| Memory | SD Card/EEPROM(Optional) |

WE MAKE IT SIMPLE



ZDNY-WE01

► General

| | |
|---------------------------|---|
| Max. number of inverters | 1-64 |
| Inverter communication | RS485/422/232 |
| Remote communication | WIFI(802.11b/g/n)/Ethernet |
| Max. communication range | <1km |
| Data collection intervals | 5 minutes(Default)/1-15 minutes(Optional) |
| Memory | SD Card/EEPROM(Optional) |

* Xcloud is the brand name for our SolaX Server

ZDNY-WE01

How it works

1. Our inverters upload operational data to the Xcloud* via WIFI.
2. Xcloud collects and processes those data every 5 minutes.
3. You can then monitor the data by simply logging into a registered account via your PC, iPhone or Android device.

NO WIFI @ HOME? WE STILL HAVE 3G!



ZDNY-G01

► General

| | |
|---------------------------|---|
| Max. number of inverters | 1-64 |
| Inverter communication | RS485/422/232 |
| Remote communication | 3G |
| Max. communication range | <1km |
| Data collection intervals | 5 minutes(Default)/1-15 minutes(Optional) |
| Memory | SD Card/EEPROM(Optional) |

* Xcloud is the brand name for our SolaX Server

ZDNY-G01

How it works

1. Our inverters upload operational data to Xcloud via a built-in 3G SIM card.
2. Xcloud collects and processes those data every 5 minutes.
3. You can then monitor the data by simply logging into a registered account via your PC, iPhone or Android device.



PRODUCT CERTIFICATES



| Certificates | CE | Australia | UK | Germany | Greece | Belgium | France | Netherland | Czeche | Danmark | Slovenia | Bulgaria | Spain | Austria | China | Italy | | | | |
|----------------|-----|-----------|-----|---------|--------|---------|---------|------------|--------|-----------|----------|----------|---------|---------|---------|--------|-----------------------|-----|---------|---|
| Module | LVD | EMC | SAA | G83 | G59 | VDE0126 | VDE4105 | VDE0126 | C10/11 | UTE-15712 | EN50438 | EN50438 | EN50438 | EN50438 | VDE0126 | RD1699 | OVEA NORME 8001-4-712 | CQC | CEI-021 | |
| SL-TL1500 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| SL-TL2200 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| SL-TL2500 | | | | | | | | | | | | | | | | | | | | |
| SL-TL2800 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| SL-TL3000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| SL-TL3300T | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| SL-TL3600T | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| SL-TL4400T | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| SL-TL5000T | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| L1-LX3600 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| L1-LX4600 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| L1-LX5200 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| ZDNY-TL10000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| ZDNY-TL12000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| ZDNY-TL15000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| ZDNY-TL17000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| ZDNY-TL20000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| SK-TL3000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| SK-TL3700 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| SK-TL5000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| SK-SU3000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| SK-SU3700 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| SK-SU5000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | |
| SK-TL3000E/C/R | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |
| SK-TL3700E/C/R | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |
| SK-TL5000E/C/R | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |
| SK-SU3000E/C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |
| SK-SU3700E/C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |
| SK-SU5000E/C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |
| SK-BMU1300 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |
| SK-BMU2500 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |
| SK-BMU5000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |



AT SOLAX
WE ARE CREATING THE INVERTERS
OF TOMORROW