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Realize the Value of Light With Innovative Products
Empowering a Better Life

Inverter



Sustainable Smart Energy Solution Provider

Slenergy, was founded in early 2023 by well-known experts in the field of photovoltaics, along with a distinguished top management team. It is committed to becoming a global leading provider of sustainable smart energy solutions by providing more efficient, reliable, economical, and convenient solutions and services. Its core products include standardized solutions applicable for all scenarios (residential, C&I, micro and off-grid, etc.), PV and energy storage inverters, smart junction boxes, portable energy storage products, smart energy management systems, etc. As a visionary player in the new energy industry, the company aims to upgrade the new energy sector with precision manufacturing and create rewarding products with innovative technologies.

Slenergy has inherited excellent "intelligent manufacturing genes" in technology research, product quality, intelligent manufacturing, and other aspects. Slenergy has set up R&D centers in Germany and China, and its production base is in Chuzhou, China. The core team has over 10 years of R&D and technology accumulation in PV products, with over 150 technical staff. The company has set up branches in Hong Kong, Germany, Spain, etc., set up customer service centers and warehouses in Germany & Spain, businesses cover the whole world.

With the country's vision of achieving carbon peak and carbon neutrality and the introduction of stricter net-zero emission reduction plans globally and in various regions, Slenergy responds to the call and expects to help the entire industry achieve upgrading through the introduction of precision manufacturing and smart manufacturing and to transform energy independence into reality by building the capacity of the smart energy ecosystem.

Slenergy, Esay Energy, Easy Life.

Full Series

Efficient and Profitable, Safe and Reliable,
Intelligent and Friendly



All-scenario Solutions

Household, Industrial and Commercial,
Islanded Microgrid and Ground Power Station



Household Scene



Industrial and Commercial Scene






Ground Power Station Scene

New Quality Representative Lean Manufacturing Pioneer


Specialized Research and Development

Intelligent Manufacturing Quality and Efficiency Improvement

Higher Power Density and Smaller Product Volume

-  Adopt new silicon carbide scheme design, with high efficiency and low loss
-  Radiator aluminum extrusion process, chassis mold die casting + drawing integrated molding, all aluminum alloy design, and response to harsh environment
-  Drawer fan design to protect the service life of capacitor





Modularization and Standardization

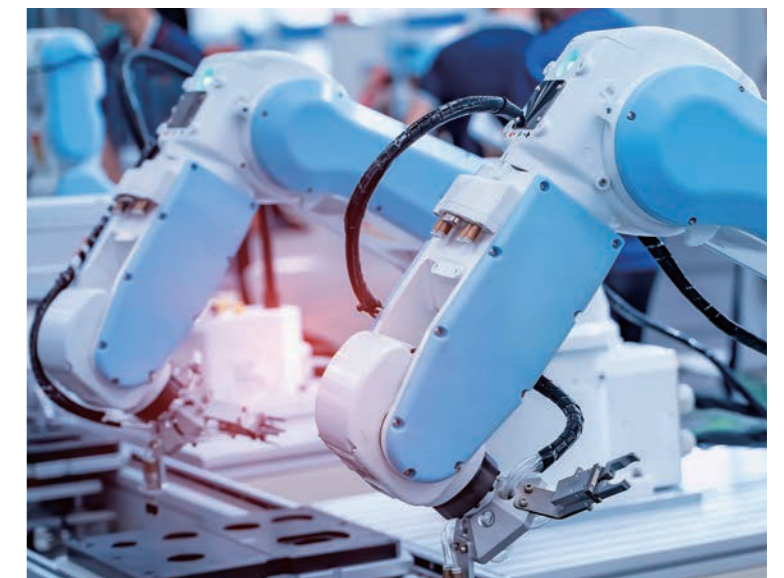
-  Modular and standardized design assists the rapid upgrading of power stations



Vertical Integration

Advantage Integration Shorter Process

-  High level of automation, better production capacity and quality
-  Professional module processing ability, more transparent process and more controllable quality
-  Advanced parts design and processing ability to ensure the best quality of supplied materials and finished products
-  Leading patch and assembly ability, more complete industrial chain process and more guaranteed product quality



Lean Manufacturing

Exquisite Craftsmanship and Precision Manufacturing



High precision, versatile SMT configuration



Supported by multi-field welding technology



Industry-leading automated wire body and test platform



Top-level wiring harness/PCBA manufacturing capability

Intelligent Factory

Intelligent System, Intelligent Control



Life cycle data management

- Life cycle product data query interaction
- Full manufacturing process data recording and tracing



Whole process systematic control

- Dynamic scheduling system
- Intelligent production system

Quality Assurance

Visible Process and Traceable Result



Complete quality management system and comprehensive quality inspection ability



ISO global environment and safety certification, safety certification in various markets, etc

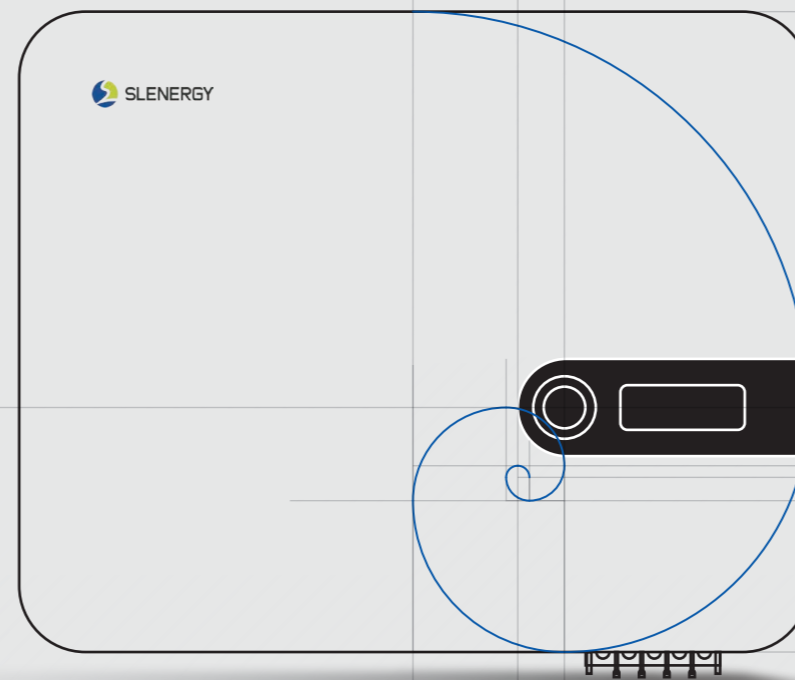


Product traceability can be realized



New Industrial Aesthetics

Industrial Romanticism



Family Brand Design Language

Unified style of appearance and modeling, forming serialized and family product image and improving product recognition



Integration of Technology and Value

Standard LED & LCD screen for man-machine interaction

Different states are indicated according to the color and flashing of the lamp

Display information such as power generation through LCD screen, which is full of sense of technology as a whole



Simple and Affiliative Modern Aesthetics

Screw-free face cover design, simple and elegant

Fresh color matching design, simple and elegant



Ornament and Golden Section

Pure white background with Slenergy logo, pure background, looking forward to blue and green vision

The golden section of the display screen and control panel is just right, and it is within reach of your eyes



Know the Light and Know More About Your Needs.

Self-Cultivation of Inverter



Efficient Income

- Max. 16A string current access, with strong component adaptability
- Max. 160% DC side over-distribution to increase power generation
- SiC scheme is introduced to improve the efficiency of the whole machine, with unique heat flow design and minimum volume of the whole machine
- Wide range of MPPT and more flexible component configuration to improve power generation efficiency

Safe and Reliable

- Intelligent arc-pulling monitoring to ensure the safety of power stations
- AC/DC secondary lightning protection design to make the system safer
- IP66 protection degree for better environmental adaptability
- The bus capacitor is designed with thin film capacitor to improve reliability

Intelligent and Friendly

- Intelligent I-V curve scanning for accurate fault position
- Support Bluetooth/RS485/4G/WIFI and other communication modes
- Support rapid upgrade of USB/RS485 field software
- Screw-free face cover design, simple and elegant
- Model & LCD design, more friendly display

New Experience of Household Energy

Matching Product

Three-phase grid-tied inverter

3~15kW

17~25kW

30~50kW

Hybrid Inverter

Single phase 3.6~6kW

Single phase 3~8kW

Three phase 5~12kW



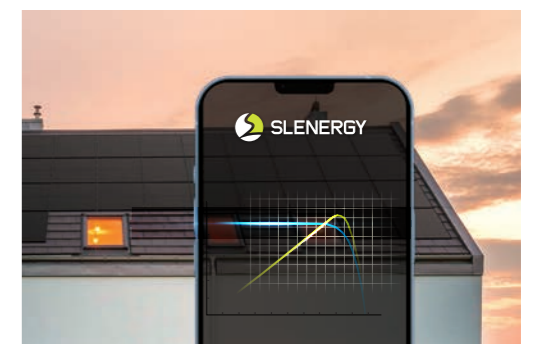
IP66 Protection Degree for Stronger Environmental Adaptability

The protection degree higher than the average makes the SLENERGY household inverter can be used in a wider area, and the SLENERGY household inverter can respond calmly to both humid and rainy tropical rainforest climate and temperate monsoon climate.



Intelligent Security Protection For a New Reliable Energy Experience

Intelligent I-V curve scanning can find the hidden string fault in time and accurately guide the maintenance work; Built-in real-time inspection of arc voltage to prevent fire; APP remote intelligent monitoring makes the operating state of inverter clear at a glance.



SL3-15KRG-W

Three Phase Grid-tied Inverter



High Yield & Efficiency

- Max. Efficiency of inverter is up to 98.6%;
- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16 A input current per string to compatible with bifacial and large PV modules;
- Low start-up voltage and wide MPP voltage for more power generation time.



Safe & Reliable

- Type II AC&DC Surge Protection;
- Adapt film bus capacitors to improve reliability of system;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;
- Built in RS485, supports WiFi and 4G, firmware update remotely or by USB interface;
- LED indicators for different status, LCD display for realtime data read.



Aesthetic & Compact

- Screw free cover design, Integrated molding box without welding, good aesthetic & product stability and consistency;
- Light weight, small volume and compact size;
- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;
- Fanless design, natural heat dissipation, low noise.



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer.

SL3-15KRG-W Technical Parameter Table

| MODEL | SL3KRG-W | SL4KRG-W | SL5KRG-W | SL6KRG-W | SL7KRG-W | SL8KRG-W | SL9KRG-W | SL10KRG-W | SL11KRG-W | SL12KRG-W | SL13KRG-W | SL15KRG-W | |
|---|---|----------|----------|----------|----------|----------------|------------|-----------|-----------|----------------|-----------|-------------------------|-------|
| Input Data (DC) | | | | | | | | | | | | | |
| Max. Input Power | 4.5 kW | 6 kW | 7.5 kW | 9 kW | 10.5 kW | 12 kW | 13.5 kW | 15 kW | 16.5 kW | 18 kW | 19.5 kW | 22.5 kW | |
| Max. DC Voltage | | | | | | | 1100 V | | | | | | |
| Start-up Voltage | | | | | | | 180 V | | | | | | |
| Nominal Voltage | | | | | | | 600 V | | | | | | |
| MPPT Voltage Range | | | | | | | 140-1000 V | | | | | | |
| No. of MPP Trackers | | | | | | | 2 | | | | | | |
| No. of PV Strings per MPP Tracker | | | | | | | 1 / 1 | | | 1 / 2 | | | |
| Max. Input Current per MPP Tracker | | | | | | | 16A / 16A | | | 16A / 32A | | | |
| Max. Input Short-circuit Current per MPPT | | | | | | | 20A / 20 A | | | 20A / 40 A | | | |
| Output Data (AC) | | | | | | | | | | | | | |
| Nominal Output Power | 3 kW | 4 kW | 5 kW | 6 kW | 7 kW | 8 kW | 9 kW | 10 kW | 11 kW | 12 kW | 13 kW | 15 kW | |
| Max. AC Apparent Power | 3.3 kVA | 4.4 kVA | 5.5 kVA | 6.6 kVA | 7.7 kVA | 8.8 kVA | 9.9 kVA | 11 kVA | 12.1 kVA | 13.2 kVA | 14.3 kVA | 16.5 kVA | |
| Nominal AC Voltage | 230/400 V, 3L/N/PE | | | | | | | | | | | | |
| AC Grid Frequency | 50/60 Hz | | | | | | | | | | | | |
| Frequency Range | (45-55)/(55-65) Hz | | | | | | | | | | | | |
| Max. Output Current (PF=0.9) | 4.8 A | 6.4 A | 8.0 A | 9.6 A | 11.2 A | 12.8 A | 14.3 A | 15.9 A | 17.5 A | 19.1 A | 20.7 A | 23.9 A | |
| Power Factor | >0.99 | | | | | | | | | | | | |
| Adjustable Power Factor Range | 0.8leading...0.8lagging | | | | | | | | | | | | |
| Max. Total Harmonic Distortion | <3% (Rated Power) | | | | | | | | | | | | |
| Efficiency | | | | | | | | | | | | | |
| Max. Efficiency | | | | | | | 98.4% | | | 98.5% | | | 98.6% |
| European Efficiency | | | | | | | 97.5% | | | 98.0% | | | 98.1% |
| MPPT Efficiency | 99.9% | | | | | | | | | | | | |
| Protection | | | | | | | | | | | | | |
| Anti-flow Protection | Optional | | | | | | | | | | | | |
| DC Reverse Polarity Protection | Yes | | | | | | | | | | | | |
| DC Switch | Yes | | | | | | | | | | | | |
| DC Surge Protection | Type II | | | | | | | | | | | | |
| Insulation Resistance Monitoring | Yes | | | | | | | | | | | | |
| Residual-current Monitoring Unit (GFCI) | Yes | | | | | | | | | | | | |
| AC Short-circuit Protection | Yes | | | | | | | | | | | | |
| AC Surge Protection | Type II | | | | | | | | | | | | |
| Grid Monitoring | Yes | | | | | | | | | | | | |
| Anti-islanding Protection | Yes | | | | | | | | | | | | |
| String Fault Monitoring | | | | | | | / | | | Optional | | | |
| AFCI Protection | Optional | | | | | | | | | | | | |
| General Data | | | | | | | | | | | | | |
| Dimensions (W×H×D) | 440×370×140 mm | | | | | 440×370×186 mm | | | | 440×370×186 mm | | | |
| Weight | 13 kg | | | | | 16 kg | | | | 17 kg | | | |
| Operating Temperature Range | -25°C~+60°C (> 45°C derating) | | | | | | | | | | | | |
| Relative Humidity | 0-100% | | | | | | | | | | | | |
| Altitude | 4000 m (> 2000 m derating) | | | | | | | | | | | | |
| Self-consumption at Night | <1 W | | | | | | | | | | | | |
| Topology | Transformerless | | | | | | | | | | | | |
| Cooling | Natural convection | | | | | | | | | | | Intelligent Air Cooling | |
| Protection Rating | IP66 | | | | | | | | | | | | |
| Guarantee Period | 5 Years / 10 Years (Optional) | | | | | | | | | | | | |
| Display | LED & LCD | | | | | | | | | | | | |
| Communication | Yes: RS485/USB, Optional: 4G/WiFi | | | | | | | | | | | | |
| Standards Compliance | | | | | | | | | | | | | |
| Grid Connection | NB/T 32004, G98/G99, VDE 0126, VDE 4105, VDE 0124, EN 50549-1/2, CEIO-21/CEIO-16, AS 4777.2, IEC 61727, IEC 62116, PEA, MEA | | | | | | | | | | | | |
| Safety Standards | IEC 62109-1/2 | | | | | | | | | | | | |
| Others | EN 61000-6-1/2/3/4, IEC 61683, IEC 60068 (1,2,14,30) | | | | | | | | | | | | |

SL17-25KRG-W

Three Phase Grid-tied Inverter



High Yield & Efficiency

- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16 A input current per string to compatible with bifacial and large PV modules;
- Intergrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;
- Low start-up voltage and wide MPP voltage for more power generation time.



Safe & Reliable

- Type II AC&DC Surge Protection;
- Adapt film bus capacitors to improve reliability of system;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;
- Built in RS485, supports WiFi and 4G, firmware update remotely or by USB interface;
- LED indicators for different status, LCD display for realtime data read.



Aesthetic & Compact

- Screw free cover design, Integrated molding box without welding, good aesthetic & product stability and consistency;
- Light weight, small volume and compact size;
- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment.



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer.

SL17-25KRG-W Technical Parameter Table

| MODEL | SL17KRG-W | SL20KRG-W | SL22KRG-W | SL25KRG-W |
|---|-----------|-----------|---|-----------|
| Input Data (DC) | | | | |
| Max. Input Power | 25.5 kW | 30 kW | 33 kW | 37.5 kW |
| Max. DC Voltage | | | 1100 V | |
| Start-up Voltage | | | 180 V | |
| Nominal Voltage | | | 600 V | |
| MPPT Voltage Range | | | 160-1000 V | |
| No. of MPP Trackers | | | 2 | |
| No. of PV Strings per MPP Tracker | | | 2 | |
| Max. Input Current per MPP Tracker | | | 32 A | |
| Max. Input Short-circuit Current per MPPT | | | 40 A | |
| Output Data (AC) | | | | |
| Nominal Output Power | 17 kW | 20 kW | 22 kW | 25 kW |
| Max. AC Apparent Power | 18.7 kVA | 22 kVA | 24.2 kVA | 27.5 kVA |
| Nominal AC Voltage | | | 230/400 V, 3L/N/PE or 3L/PE | |
| AC Grid Frequency | | | 50/60 Hz | |
| Frequency Range | | | (45-55)/(55-65) Hz | |
| Max. Output Current (PF=0.9) | 28.4 A | 33.4 A | 36.8 A | 41.8 A |
| Power Factor | | | > 0.99 | |
| Adjustable Power Factor Range | | | 0.8 leading...0.8 lagging | |
| Max. Total Harmonic Distortion | | | <3% (Rated Power) | |
| Efficiency | | | | |
| Max. Efficiency | | | 98.5% | |
| European Efficiency | | | 98.0% | |
| MPPT Efficiency | | | 99.9% | |
| Protection | | | | |
| Anti-flow Protection | | | Yes | |
| DC Reverse Polarity Protection | | | Yes | |
| DC Switch | | | Yes | |
| DC Surge Protection | | | Type II | |
| Insulation Resistance Monitoring | | | Yes | |
| Residual-current Monitoring Unit (GFCI) | | | Yes | |
| AC Short-circuit Protection | | | Yes | |
| AC Surge Protection | | | Type II | |
| Grid Monitoring | | | Yes | |
| Anti-islanding Protection | | | Yes | |
| Anti-PID Function | | | Yes | |
| AFCI Protection | | | Optional | |
| General Data | | | | |
| Dimensions (W×H×D) | | | 520×420×242 mm | |
| Weight | | | 27 kg | |
| Operating Temperature Range | | | -25°C~+60°C (> 45°C derating) | |
| Relative Humidity | | | 0-100% | |
| Altitude | | | 4000 m (> 2000 m derating) | |
| Self-consumption at Night | | | <1 W | |
| Topology | | | Transformerless | |
| Cooling | | | Intelligent Air Cooling | |
| Protection Degree | | | IP66 | |
| Guarantee Period | | | 5 Years / 10 Years (Optional) | |
| Display | | | LED & LCD | |
| Communication | | | Yes: RS485/USB, Optional: 4G/WiFi | |
| Standards Compliance | | | | |
| Grid Connection | | | NB/T 32004, G98/G99, VDE 0126, VDE 4105, VDE 0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727, IEC 62116, PEA, MEA | |
| Safety Standards | | | IEC 62109-1/2 | |
| Others | | | EN 61000-6-1/2/3/4, IEC 61683, IEC 60068(1,2,14,30) | |



Hybrid Inverter SL3.6-6KLV-W

Optimal Power & Storage | Strong Load & Back-up |
Convenient Installation & Operation | Smart Management |



1 Optimal Power & Storage

- 97.6% Max. Efficiency;
- DC 16A current input, compatible with high power PV module;
- 90-135A charge/discharge current;
- UPS switching time.

2 Strong Load & Back-up

- 130% max. back-up output overloading @60s;
- 110% continuous AC output overloading;
- DC/AC ratio up to 1.3;
- Support diesel generator to charge battery directly, compatible with Li-ion and lead-acid batteries.

3 Convenient Installation & Operation

- Touch free commissioning with smartphone;
- Color LCD touch screen and App for setting and data management;
- Compact size and elegant appearance.

4 Smart Management

- Remote firmware update and customizable settings;
- Free online monitoring to enhance energy management for end user, installer and retailer;
- Programmable supply priority for PV, Battery or Grid.

SL3.6-6KLV-W Technical Parameter Table

| MODEL | SL3.6KLV-W | SL5KLV-W | SL6KLV-W |
|--------------------------------------|--|-----------------------------|-----------|
| PV (DC) | | | |
| Recommended Max. PV Input Power | 4680 Wp | 6500 Wp | 7800 Wp |
| Max. Input Voltage | | 500 V | |
| Start-up Voltage | | 125 V | |
| Rated Input Voltage | | 370 V | |
| MPPT Input Voltage Range | | 150- 430 V | |
| MPPT Max. Input Current | | 16 A | |
| MPPT Short-circuit Current | | 20 A | |
| No. of MPPT | | 2 | |
| No. of Strings per MPPT | | 1 | |
| Grid (AC) | | | |
| Max. Input Apparent Power | 7590 VA | 7590 VA | 9200 VA |
| Rated Output Power | 3600 W | 5000 W | 6000 W |
| Max. Output Apparent Power | 3960 VA | 5500 VA | 6600 VA |
| Rated AC Voltage | | L/N/PE, 220 / 230 / 240 V | |
| Input/Output Voltage Range | | 180-300 V | |
| Rated Output Voltage Frequency | | 50/60 Hz | |
| Input/Output Voltage Frequency Range | | (45-55)/(55-65) Hz | |
| Rated Output Current | 15.7 A | 21.7 A | 26.1 A |
| Max. Input/Output Current | 33/17.2 A | 33/23.9 A | 40/28.7 A |
| Power Factor (Rated) | | >0.99 | |
| Adjustable Power Factor Range | | 0.8 leading ... 0.8 lagging | |
| Total Harmonic Distortion | | <3% (Rated Power) | |
| Grid Connection Mode | | L/N/PE | |
| AC Load Output (Off-grid) | | | |
| Rated Output Power | 3600 W | 5000 W | 6000 W |
| Max. Output Apparent Power | 3960 VA | 5500 VA | 6600 VA |
| Rated Output Voltage | | L/N/PE, 220 / 230 / 240 V | |
| Output Voltage Range | | 200-240 V | |
| Rated Output Frequency | | 50/60 Hz | |
| Rated Output Current | 15.7 A | 21.7 A | 26.1 A |
| Max. Output Current | 17.2 A | 23.9 A | 28.7 A |
| Total Harmonic Distortion | | < 3% (R Load) | |
| On-grid/Off-grid Switching Time | | < 10 ms | |
| Battery (DC) | | | |
| Rated Output Power | 3600 W | 5000 W | 6000 W |
| Max.Charge/Discharge Power | 3600 W | 5000 W | 6000 W |
| Rated Voltage | | 48 V _{bc} | |
| Battery Voltage Range | | 40-60 V _{bc} | |
| Max. Charge/Discharge Current | 90 A | 120 A | 135 A |
| Communication Port | | CAN/RS485 | |
| Efficiency | | | |
| Max. Efficiency | | 97.6% | |
| Max. MPPT Efficiency | | 99.9% | |
| Max. European Efficiency | | 96.5% | |
| Protection | | | |
| Integrated Protection | Anti-flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, GFCI Leakage Current Monitoring, Output Shorted Protection, Output Over Current Protection, Grid Monitoring, Anti-islanding Protection, Residual Current Monitoring, Off-grid Overload Protection. | | |
| Surge Protection | DC Type II, AC Type II | | |
| Display and Communication | | | |
| Display | LCD+LED+APP | | |
| Communication | RS485, 4G (Optional), WiFi (Optional) | | |
| General Data | | | |
| Dimensions (W×H×D) | 580×330×232 mm | | |
| Weight | 20.5 kg | | |
| Operating Temperature Range | -25-60°C | | |
| Noise | <35 dB | | |
| Cooling | Smart Cooling | | |
| Installation Style | Wall-mounted | | |
| Protection Rating | IP65 | | |
| Warranty | 5 Years | | |
| Standards Compliance | | | |
| Grid Connection | IEC 62116, IEC 61727, NRS 097-2-1, EN 50549, EN 50438, C 10/11, CEI 0-21, AS 4777.2, UNE 206006/206007, VDE 4105 | | |
| Safety Regulation | EN/IEC 62109-1/2 | | |
| Others | EN/IEC 61000-6-1/3, IEC 60068, IEC 61683 | | |



Hybrid Inverter SL3-8KLH-W

Flexible Design & Use | Energy Independence |
Convenient Installation & Operation | Smart Management

1

Flexible Design & Use

- DC 16A current input, compatible with high power PV module.
- 32A charge/discharge current.
- Supports application in retrofit scenario.
- UPS switching time <10ms.

2

Energy Independence

- Fast charging / discharging to meet the demand of higher consumption.
- 10kW power of off-grid overloading@600s.
- DC/AC ratio up to 2.6.

3

Convenient Installation & Operation

- Unique push-in connectors for time-saving installation.
- Touch free commissioning with smartphone.
- Compact size and elegant appearance.

4

Smart Management

- Remote firmware update and customizable settings.
- Free online monitoring to enhance energy management for end user, installer and retailer.
- Programmable supply priority for PV, Battery or Grid.

SL3-8KLH-W Technical Parameter Table

| MODEL | SL3KLH-W | SL3.6KLH-W | SL4.6KLH-W | SL5KLH-W | SL6KLH-W | SL8KLH-W |
|--------------------------------------|--|------------|------------|-------------|-----------|-------------|
| PV (DC) | | | | | | |
| Max. PV Input Power* | 7000 Wp | 7000W Wp | 12600 Wp | 13000 Wp | 14000 Wp | 16000 Wp |
| Max. Input Voltage** | 600 V | | | | | |
| Start-up Voltage | 120 V | | | | | |
| Rated Input Voltage | 370 V | | | | | |
| MPPT Input Voltage Range** | 100-550 V | | | | | |
| MPPT Max. Input Current | 16 A | | | 16 A / 16 A | | 16 A / 32 A |
| MPPT Short-circuit Current | 20 A | | | 20 A / 20 A | | 20 A / 40 A |
| No. of MPPT | 1 | | | | 2 | |
| No. of Strings per MPPT | 1 | | | 1 / 1 | | 1 / 2 |
| Grid (AC) | | | | | | |
| Max. Input Apparent Power*** | 10350 VA | | | | | |
| Rated Output Power | 3000 W | 3680 W | 4600 W | 5000 W | 6000 W | 8000 W |
| Max. Output Apparent Power | 3000 VA | 3680 VA | 4600 VA | 5000 VA | 6000 VA | 8000 VA |
| Rated AC Voltage | L/N/PE, 220/230/240 V | | | | | |
| Input/Output Voltage Range | 154-276 V | | | | | |
| Rated Output Voltage Frequency | 50/60 Hz | | | | | |
| Input/Output Voltage Frequency Range | (45-55)/(55-65) Hz | | | | | |
| Rated Output Current | 13.04 A | 16.00 A | 20.00 A | 21.74 A | 26.09 A | 34.78 A |
| Max. Input/Output Current*** | 45 / 16 A | 45 / 18 A | 45 / 23 A | 45 / 25 A | 45 / 28 A | 55 / 36 A |
| Power Factor (Rated) | >0.99 | | | | | |
| Adjustable Power Factor Range | 0.8 leading ... 0.8 lagging | | | | | |
| Total Harmonic Distortion | <3% (Rated Power) | | | | | |
| Grid Connection Mode | L/N/PE | | | | | |
| AC Load Output (Off-grid) | | | | | | |
| Rated Output Power | 3000 W | 3680 W | 4600 W | 5000 W | 6000 W | 8000 W |
| Max. Output Apparent Power | 10000 VA@600s | | | | | |
| Rated Output Voltage | L/N/PE, 220/230/240 V | | | | | |
| Output Voltage Range | 154-276 V | | | | | |
| Rated Output Frequency | 50/60 Hz | | | | | |
| Rated Output Current | 13.04 A | 16.00 A | 20.00 A | 21.74 A | 26.09 A | 34.78 A |
| Max. Output Current | 45 A | | | | | |
| Total Harmonic Distortion | < 3% (R Load) | | | | | |
| On-grid/Off-grid Switching Time | <10 ms | | | | | |
| Battery (DC) | | | | | | |
| Max.Charge/Discharge Power | 8000 W / 8000 W | | | | | |
| Battery Voltage Range | 85-460 V _{dc} | | | | | |
| Max. Charge/Discharge Current | 32A / 32 A | | | | | |
| Communication Port | CAN/RS485 | | | | | |
| Efficiency | | | | | | |
| Max. Efficiency | 97.6% | | | | | |
| Max. MPPT Efficiency | 99.9% | | | | | |
| Max. European Efficiency | 97.0% | | | | | |
| Protection | | | | | | |
| Integrated Protection | Anti-flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, GFCI Leakage Current Monitoring, Output Shorted Protection, Output Over Current Protection, Grid Monitoring, Anti-islanding Protection, Residual Current Monitoring, BAT reverse Polarity Protection, BAT Shorted Protection, Off-grid Overload Protection | | | | | |
| Surge Protection | DC Type II, AC Type II | | | | | |
| Display and Communication | | | | | | |
| Display | LED+APP | | | | | |
| Communication | RS485 / WiFi, 4G (Optional) | | | | | |
| General Data | | | | | | |
| Dimensions (W×H×D) | 516×442×222 mm | | | | | |
| Weight | 22.5 kg | | | | | |
| Operating Temperature Range | -30~60 °C | | | | | |
| Noise | <30 dB | | | | | |
| Cooling | Natural Convection | | | | | |
| Installation Style | Wall-mounted | | | | | |
| Protection Rating | IP66 | | | | | |
| Warranty | 10 Years | | | | | |
| Standards Compliance | | | | | | |
| Grid Connection | CEI 0-21, UNE 217001, UNE 217002, NTS Type A, VDE 4105, VDE 0126, EN 50438, G98, G99, EN50549, AS 4772.2 | | | | | |
| Safety Regulation | EN/IEC 62109-1/2 | | | | | |
| Others | EN/IEC 61000-6-1/3 | | | | | |

*Recommended PV power should be considered by battery capacity and actual household load.

**Max. PV input voltage is 460V when battery input voltage is less than 150V.

***The max. input power & current from grid refers to the ability of the inverter to charge the battery and bearing the load at the same time.



Hybrid Inverter SL5-12KRH-W

Flexible Design & Use | Energy Independence |
Convenient Installation & Operation | Smart Management

1

Flexible Design & Use

- DC 16A current input, compatible with high power PV module.
- Supports application in retrofit scenario.
- UPS switching time <10ms.

2

Energy Independence

- Fast charging / discharging to meet the demand of higher consumption.
- 110% continuous AC output overloading.
- 130% max. AC output overloading@85s.

3

Convenient Installation & Operation

- Unique push-in connectors for time-saving installation.
- Touch free commissioning with smartphone.
- Compact size and elegant appearance.

4

Smart Management

- Remote firmware update and customizable settings.
- Free online monitoring to enhance energy management for end user, installer and retailer.
- Programmable supply priority for PV, Battery or Grid.

SL5-12KRH-W Technical Parameter Table

| MODEL | SL5KRH-W | SL6KRH-W | SL8KRH-W | SL10KRH-W | SL12KRH-W |
|--------------------------------------|--|------------------|------------------|-------------------|-------------------|
| PV (DC) | | | | | |
| Recommended Max. PV Input Power | 7500 Wp | 9000 Wp | 10000 Wp | 15000 Wp | 18000 Wp |
| Max. Input Voltage* | | | 1000 V | | |
| Start-up Voltage | | | 135 V | | |
| Rated Input Voltage | | | 600 V | | |
| MPPT Input Voltage Range* | | | 135-900 V | | |
| MPPT Max. Input Current | 16 A / 16 A | | | | 16 A / 32 A |
| MPPT Short-circuit Current | 20 A / 20 A | | | | 20 A / 40 A |
| No. of MPPT | | | 2 | | |
| No. of Strings per MPPT | 1 / 1 | | | | 1 / 2 |
| Grid (AC) | | | | | |
| Max. Input Apparent Power** | 10000 VA | 12000 VA | 16000 VA | 20000 VA | 24000 VA |
| Rated Output Power | 5000 W | 6000 W | 8000 W | 10000 W | 12000 W |
| Max. Output Apparent Power | 5500 VA | 6600 VA | 8800 VA | 11000 VA | 13200 VA |
| Rated AC Voltage | 3L/N/PE, 220/380 V, 230/400 V, 240/415 V | | | | |
| Input/Output Voltage Range | 180-300 V / 200-253 V | | | | |
| Rated Output Voltage Frequency | 50 / 60 Hz | | | | |
| Input/Output Voltage Frequency Range | (45-55) / (55-65) Hz | | | | |
| Rated Output Current | 7.2 A | 8.7 A | 11.6 A | 14.5 A | 17.4 A |
| Max. Input/Output Current | 15.2 A / 9.8 A | 18.2 A / 11.8 A | 24.2 A / 15.8 A | 30.3 A / 19.7 A | 36.4 A / 23.6 A |
| Power Factor (Rated) | >0.99 | | | | |
| Adjustable Power Factor Range | 0.8 leading ... 0.8 lagging | | | | |
| Total Harmonic Distortion | <3% (Rated Power) | | | | |
| Grid Connection Mode | 3L/N/PE | | | | |
| AC Load Output (Off-grid) | | | | | |
| Rated Output Power | 5000 W | 6000 W | 8000 W | 10000 W | 12000 W |
| Max. Output Apparent Power | 5500 VA | 6600 VA | 8800 VA | 11000 VA | 13200 VA |
| Rated Output Voltage | 3L/N/PE, 220/380 V, 230/400 V, 240/415 V | | | | |
| Output Voltage Range | 200-240 V | | | | |
| Rated Output Frequency | 50/60 Hz | | | | |
| Rated Output Current | 7.2 A | 8.7 A | 11.6 A | 14.5 A | 17.4 A |
| Max. Output Current | 9.8 A | 11.8 A | 15.8 A | 19.7 A | 23.6 A |
| Total Harmonic Distortion | < 3% (R Load) | | | | |
| On-grid/Off-grid Switching Time | < 10 ms | | | | |
| Battery (DC) | | | | | |
| Rated Output Power | 5000 W | 6000 W | 8000 W | 10000 W | 12000 W |
| Max.Charge/Discharge Power | 12500 W / 5500 W | 12500 W / 6600 W | 12500 W / 8800 W | 12500 W / 11000 W | 12500 W / 13200 W |
| Battery Voltage Range | 135-800 V | | | | |
| Max. Charge/Discharge Current | 25 A / 25 A | 25 A / 25 A | 25 A / 25 A | 25 A / 25 A | 25 A / 25 A |
| Communication Port | CAN / RS485 | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 97.6% | | | | |
| Max. MPPT Efficiency | 99.9% | | | | |
| Max. European Efficiency | 97.0% | | | | |
| Protection | | | | | |
| Integrated Protection | Anti-flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, Leakage Current Monitoring, Output Shorted Protection, Output Over Current Protection, Grid Monitoring, Anti-islanding Protection, Residual Current Monitoring, Reverse Polarity Protection, Off-grid Overload Protection. | | | | |
| Surge Protection | DC Type II, AC Type II | | | | |
| Display and Communication | | | | | |
| Display | LED+APP | | | | |
| Communication | Yes: RS485 / USB , Optional: 4G / WiFi | | | | |
| General Data | | | | | |
| Dimensions (W×H×D) | 516×442×222 mm | | | | |
| Weight | 24 kg | | | | |
| Operating Temperature Range | -30~60°C | | | | |
| Noise | <35 dB | | | | |
| Cooling | Smart Cooling | | | | |
| Installation Style | Wall-mounted | | | | |
| Protection Rating | IP66 | | | | |
| Warranty | 10 Years | | | | |
| Standards Compliance | | | | | |
| Grid Connection | EN 50549-1, CEI 0-21, AS 4777.2, G98/G99, EN 50438, VDE 4105, VDE 0126 | | | | |
| Safety Regulation | IEC/EN 62109-1/2 | | | | |
| Others | IEC/EN 61000-6-1/2/3/4 | | | | |

* Max. DC input voltage is 1000V without battery, 850V with battery. If the voltage is greater than the maximum, the inverter is in standby state.

** Max. grid input power refers to the max. power drawn from the grid, including the supply of off-grid load and battery charging.

New Value of Industrial and Commercial Energy

Matching Product

Three-Phase Grid-tied Inverter

30~50kW

100~136kW

— Support at least 1.5 times over-distribution of DC input and 1.1 times overload of AC output

— Thin film DC-LINK capacitor design with higher reliability and longer life

— SiC MOS tube design is introduced for boosting, which improves efficiency so as to achieve the smallest volume in the industry

SL30-50KRG-W

Three Phase Grid-tied Inverter



High Yield & Efficiency

- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16 A input current per string to compatible with bifacial and large PV modules;
- Intergrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;
- Low start-up voltage and wide MPP voltage for more power generation time.



Safe & Reliable

- Type II AC&DC Surge Protection;
- Adapt film bus capacitors to improve reliability of system;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;
- Built in RS485, supports WiFi and 4G, firmware update remotely or by USB interface;
- LED indicators for different status, LCD display for realtime data read.



Aesthetic & Compact

- Screw free cover design, Integrated molding box without welding, good aesthetic & product stability and consistency;
- Light weight, small volume and compact size;
- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment.



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer.

SL30-50KRG-W Technical Parameter Table

| MODEL | SL30KRG-W | SL33KRG-W | SL36KRG-W | SL40KRG-W | SL50KRG-W |
|---|---|-----------|-----------|-----------|-----------|
| Input Data (DC) | | | | | |
| Max. Input Power | 45 kW | 49.5 kW | 54 kW | 60 kW | 75 kW |
| Max. DC Voltage | 1100 V | | | | |
| Start-up Voltage | 180 V | | | | |
| Nominal Voltage | 600 V | | | | |
| MPPT Voltage Range | 200-1000 V | | | | |
| No. of MPP Trackers | 3 | 3 | 3 | 4 | 4 |
| No. of PV Strings per MPP Tracker | 2 | | | | |
| Max. Input Current per MPP Tracker | 32 A | | | | |
| Max. Input Short-circuit Current per MPPT | 40 A | | | | |
| Output Data (AC) | | | | | |
| Nominal Output Power | 30 kW | 33 kW | 36 kW | 40 kW | 50 kW |
| Max. AC Apparent Power | 33 kVA | 36 kVA | 39.6 kVA | 44 kVA | 55 kVA |
| Nominal AC Voltage | 230/400 V, 3L/N/PE or 3L/PE | | | | |
| AC Grid Frequency | 50/60 Hz | | | | |
| Frequency Range | (45-55)/(55-65) Hz | | | | |
| Max. Output Current (PF=0.9) | 48.3 A | 54.5 A | 60 A | 66.7 A | 84.1 A |
| Power Factor | > 0.99 | | | | |
| Adjustable Power Factor Range | 0.8 leading...0.8 lagging | | | | |
| Max. Total Harmonic Distortion | <3% (Rated Power) | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 98.4% | | | | |
| European Efficiency | 98.2% | | | | |
| MPPT Efficiency | 99.9% | | | | |
| Protection | | | | | |
| Anti-flow Protection | Optional | | | | |
| DC Reverse Polarity Protection | Yes | | | | |
| DC Switch | Yes | | | | |
| DC Surge Protection | Type II | | | | |
| Insulation Resistance Monitoring | Yes | | | | |
| Residual-current Monitoring Unit (GFCI) | Yes | | | | |
| AC Short-circuit Protection | Yes | | | | |
| AC Surge Protection | Type II | | | | |
| Grid Monitoring | Yes | | | | |
| Anti-islanding Protection | Yes | | | | |
| String Fault Monitoring | Yes | | | | |
| AFCI Protection | Optional | | | | |
| General Data | | | | | |
| Dimensions (W×H×D) | 590×480×237 mm | | | | |
| Weight | 32 kg | 32 kg | 32 kg | 34 kg | 35kg |
| Operating Temperature Range | -25°C~+60°C (45°C derating) | | | | |
| Relative Humidity | 0-100% | | | | |
| Altitude | 4000 m (> 2000 m derating) | | | | |
| Self-consumption at Night | <1 W | | | | |
| Topology | Transformerless | | | | |
| Cooling | Intelligent Air Cooling | | | | |
| Protection Rating | IP66 | | | | |
| Guarantee Period | 5 Years / 10 Years (Optional) | | | | |
| Display | LED & LCD | | | | |
| Communication | Yes: RS485/USB, Optional: 4G/WiFi | | | | |
| Standards Compliance | | | | | |
| Grid Connection | NB/T 32004, G98/G99, VDE 0126, VDE 4105, VDE 0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727, IEC 62116, PEA, MEA | | | | |
| Safety Standards | IEC 62109-1/2 | | | | |
| Others | EN 61000-6-1/2/3/4, IEC 61683, IEC 60068(1,2,14,30) | | | | |

SL100-136KRG-W

Three Phase Grid-tied Inverter



High Yield

- 9-12 MPPT to achieve maximum power output for complex application scenarios;
- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16 A input current per string to compatible with bifacial and large PV modules;
- Intergrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;
- Low start-up voltage and wide MPP voltage for more power generation time.



Safe & Reliable

- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;
- Adapt film bus capacitors to improve reliability of system;
- Type II AC&DC Surge Protection;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire.



User-friendly

- Independent AC terminal box design, save 30% installation time;
- Firmware update remotely or by USB interface;
- Online monitoring by slenergy Smart M app. via RS485/USB/Bluetooth, supports 4G/WiFi;
- Quick & Easy-to-install with basic tools, LED indicators for different status.



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer.

SL100-136KRG-W Technical Parameter Table

| MODEL | SL100KRG-W | SL110KRG-W | SL136KRG-W |
|---|-----------------------------|---|-----------------------------|
| Input Data (DC) | | | |
| Max. Input Power | 150 kW | 165 kW | 204 kW |
| Max. DC Voltage | | 1100 V | |
| Start-up Voltage | | 180 V | |
| Nominal Voltage | 600 V | 600 V | 800 V |
| MPPT Voltage Range | | 200-1000 V | |
| No. of MPP Trackers | 9 | 9 | 12 |
| No. of PV Strings per MPP Tracker | | 2 | |
| Max. Input Current per MPP Tracker | | 32 A | |
| Max. Input Short-circuit Current per MPPT | | 40 A | |
| Output Data (AC) | | | |
| Nominal Output Power | 100 kW | 110 kW | 136 kW |
| Max. AC Apparent Power | 110 kVA | 121 kVA | 149.6 kVA |
| Nominal AC Voltage | 220/380 V, 3L/N/PE or 3L/PE | 230/400 V, 3L/N/PE or 3L/PE | 312/540 V, 3L/N/PE or 3L/PE |
| AC Grid Frequency | | 50/60 Hz | |
| Frequency Range | | (45-55)/(55-65) Hz | |
| Max. Output Current (PF=0.9) | 166.7 A | 175 A | 160 A |
| Power Factor | | > 0.99 (Rated) | |
| Adjustable Power Factor Range | | 0.8 leading...0.8 lagging | |
| Max. Total Harmonic Distortion | | <3% (Rated Power) | |
| Efficiency | | | |
| Max. Efficiency | | 98.5% | |
| European Efficiency | | 98.1% | |
| MPPT Efficiency | | 99.9% | |
| Protection | | | |
| Anti-flow Protection | | Optional | |
| DC Reverse Polarity Protection | | Yes | |
| DC Switch | | Yes | |
| DC Surge Protection | | Type II | |
| Insulation Resistance Monitoring | | Yes | |
| Residual-current Monitoring Unit (GFCI) | | Yes | |
| AC Short-circuit Protection | | Yes | |
| AC Surge Protection | | Type II | |
| Grid Monitoring | | Yes | |
| Anti-islanding Protection | | Yes | |
| String Fault Monitoring | | Yes | |
| AFCI Protection | | Optional | |
| General Data | | | |
| Dimensions (W×H×D) | | 1040×700×350 mm | |
| Weight | | 88 kg | |
| Operating Temperature Range | | -25°C~+60°C (> 45°C derating) | |
| Relative Humidity | | 0-100% | |
| Altitude | | 4000 m (> 3000 m derating) | |
| Self-consumption at Night | | <4 W | |
| Topology | | Transformerless | |
| Cooling | | Intelligent Air Cooling | |
| Protection Rating | | IP66 | |
| Guarantee Period | | 5 Years / 10 Years (Optional) | |
| Display | | LED | |
| Communication | | Yes:RS485/USB/Bluetooth, Optional:4G/WiFi | |
| Standards Compliance | | | |
| Grid Connection | | NB/T 32004, G98/G99, VDE 0126, VDE 4105, VDE 0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727, IEC 62116, PEA, MEA | |
| Safety Standards | | EN/IEC 62109-1/2 | |
| Others | | EN/IEC 61000-6-1/2/3/4, IEC 61683, IEC 60068(1,2,14,30) | |

An aerial photograph of a vast, misty landscape at sunrise. The sun is low on the horizon, casting a warm, golden glow over the scene. The sky is a mix of soft pinks, oranges, and blues. The ground is covered in a thick layer of white mist, which partially obscures the details of the terrain. In the foreground, there are rolling green hills and a narrow dirt road. In the middle ground, there are clusters of trees and a few small buildings. The overall atmosphere is peaceful and serene.

Easy Energy Easy Life