

# LKS 300W - 1500W

## Pure Sine Wave Inverter Controller LKS Series

LKS Series 300W - 1500W (1ph in / 1ph out)

### Key Features:

- Suitable for mains power unstable or often off, and important equipment that requires backup power.
- This product adopts high-precision DSP control chip, precise detection circuit, advanced control technology
- Intelligent temperature-regulating fan, efficient heat dissipation, extending system life. Pure sine wave output, Multiple working mode options
- Multiple electronic protections: short circuit protection, overvoltage and under voltage protection, overload protection, Overheat / short circuit automatic restart (automatic restart three times)
- wide frequency and wide voltage input, can be used for diesel / gasoline generator input.
- 3-Stage battery charger with configurable charging current
- 8 Pre-Set battery voltages including Lithium; User-defined option
- Inbuilt Solar PWM Charge Controller (MPPT Controller Optional)



# Technical Specification:

| Model   | LKS 300   | LKS 500 | LKS 700 | LKS 1000 | LKS 1200 | LKS 1500 |
|---|---|---------|---------|----------|----------|----------|
| Rated Power   | 300W  | 500W    | 700W    | 1000W    | 1200W    | 1500W    |
| Peak Power  | 600W  | 1000W   | 1400W   | 2000W    | 2400W    | 3000W    |
| AC Input Voltage Range  | 70V-135VAC / 80V-145V (110VAC / 120VAC)<br>140V-275VAC / 150V-285V (220VAC / 230VAC )   |         |         |          |          |          |
| Input Frequency Range   | 45-65Hz   |         |         |          |          |          |
| Battery Voltage   | 12VDC / 24VDC   |         |         | 24VDC    |          |          |
| Controller Type   | PWM Controller (MPPT Controller Optional)   |         |         |          |          |          |
| DC Voltage  | 12VDC:10.5-15VDC / 24VDC:21-30VDC   |         |         |          |          |          |
| Battery Under Voltage Alarm                                   | 10.5VDC / 21VDC   |         |         |          |          |          |
| Battery Under Voltage Protection                              | 10VDC / 20VDC   |         |         |          |          |          |
| Battery Voer Voltage Protection                               | 17V ±0.5V / 34V±0.5V  |         |         |          |          |          |
| Voltage Over Voltage Alarm                                    | 15V-16VDC / 30V-32VDC   |         |         |          |          |          |
| Overload Protection   | Rated Power of 110% or More   |         |         |          |          |          |
| Temperature Protection  | ≥85°C Alarm, ≥90°C off the Machine  |         |         |          |          |          |
| Inverter Output Voltage                                       | 110VAC / 120VAC / 220VAC / 230VAC ±2%   |         |         |          |          |          |
| Inverter Output Frequency                                     | 50 / 60Hz ±10%  |         |         |          |          |          |
| Inverter Output Waveform                                      | Pure Sine Wave  |         |         |          |          |          |
| AC Output Voltage Range                                       | AVR Output 110VAC / 120VAC / 220VAC / 230VAC ±10%   |         |         |          |          |          |
| Output Frequency Range  | Automatic Tracking  |         |         |          |          |          |
| Conversion Time   | 5ms-10ms  |         |         |          |          |          |
| Cooling method  | Intelligent Fan Control, ≤42°C Fan Slow Working, ≥45°C Fan High Working   |         |         |          |          |          |
| AC Charging Current   | 10A / 20A / 30A   |         |         |          |          |          |
| Working Mode Selection  | <p>Free to Choose(SET)</p> <p>01: AC priority / city power priority: when city power is available, the inverter will work AC output, city power will supply power to appliances. the city power charges power to battery. when city power failed, will use battery power to take the appliances.</p> <p>02: Energy saving mode load power ≤10% off the machine, ≥11% -100% turn on</p> <p>03: Battery priority when it have has battery power, battery supply power to the appliances. When battery voltage ≤10.5V, inverter will automation use city power to take the appliances, When battery voltage reach 13V inverter will use battery power.</p> |         |         |          |          |          |
| Solar Mode Max PV Input Open Circuit(Voc)                     | 12V System: 24VDC; 24V System: 50VDC  |         |         |          |          |          |
| Solar Mode Max Input PV Power                                 | 12V 10A: 120W, 24 10A: 240W / 12V 20A: 240W, 24 20A: 480W / 12V 30A: 360W, 24V 30A: 720W  |         |         |          |          |          |
| Communication Port  | RS485 / WIFI (Optional)   |         |         |          |          |          |
| Temperature   | - 10°C ~ +50°C  |         |         |          |          |          |
| Humidity  | 10% ~ 90%   |         |         |          |          |          |
| External Size(mm) D*W*H                                       | 287*295*135mm   |         |         |          |          |          |
| Packing Size(mm) D*W*H  | 370*380*450(2pcs)   |         |         |          |          |          |
| Net Weight(kg)  | 5   | 6       | 6.5     | 7.5      | 8.5      | 9.5      |
| Cross Weight(kg)(2pcs)  | 11  | 12      | 15      | 18       | 19       | 20       |
| *Product Specifications are Subject to Change Without Notice. |   |         |         |          |          |          |