

LESSO



Residential Off-grid Inverter With MPPT (Single Phase Power Frequency)

>> Models:

LSOTH2KL

LSOTH3KL

LSOTH4KL

LSOTH5KL

LSOTH6KL

LSOTH8KL

LSOTH10KL

LSOTH12KL



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| Product Model | | LSOTH2KL | LSOTH3KL | LSOTH4KL | LSOTH5KL | LSOTH6KL | LSOTH8KL | LSOTH10KL | LSOTH12KL |
|--|--------------------------------------|---|-----------|----------|----------|---------------|----------|-----------|-----------|
| Rated Power | | 2kW | 3kW | 4kW | 5kW | 6kW | 8kW | 10kW | 12kW |
| Max. Power | | 6kW | 9kW | 12kW | 15kW | 18kW | 24kW | 30kW | 36kW |
| Rated Battery Voltage | | 12/24/48V | 12/24/48V | 24/48V | 24/48V | 24/48V | 48V | 48V | 48V |
| MPPT Control Module | Charge Current | 60A | 60A | 60A | 60A | 60A | 60A | 60A | 60A |
| | PV Module Input | 1 circuit (60A) | | | | | | | |
| | PV Input Operating Voltage | 15V-180V (12V System) ;30V-180V (24V System) ; 60V-180V (48V System) | | | | | | | |
| | Maximum PV Array Power | 60A : 720W(12V System) 1440W(24V System) ; 2880W (48V System) ; | | | | | | | |
| | Max. Charge Current (Adjustable) | OFF/30A/60A | | | | | | | |
| | Control Module Efficiency | ≈99% | | | | | | | |
| | Unattended mode | MPPT Control Module continues to charge battery from PV module even when device is switched off | | | | | | | |
| Input | DC Input Voltage Range | 10.5VDC-15VDC (12V voltage unit) | | | | | | | |
| | Mains AC Input Voltage Range | 110Vac : (80-130)Vac ; 220Vac : (160-260)Vac/(130-280)Vac (Adjustable) | | | | | | | |
| | Mains AC Input Frequency | 45HZ-65HZ automatic match | | | | | | | |
| | Mains AC Charge Current (Adjustable) | ON/OFF (Adjustable) | | | | | | | |
| Output | Inverter output voltage waveform | Pure sine wave | | | | | | | |
| | Inverter output Efficiency | ≈90% | | | | | | | |
| | Inverter output voltage | 200V/210V/220V/230V/240V (Adjustable) | | | | | | | |
| | Inverter output Frequency | 50Hz/60Hz (Adjustable) | | | | | | | |
| | AC output voltage | 110VAC±10%/220VAC±10% | | | | | | | |
| | AC output Frequency | Automatic tracking | | | | | | | |
| | Energy loss under power saving mode | 5W | | | | | | | |
| Operating Mode | Inverter operating mode | Mains AC priority mode, battery priority mode, ECO mode, unattended mode, power generation mode | | | | | | | |
| Battery Parameter | Supported battery type | Lead acid battery / LiFePO ₄ battery / NiCoMn battery / Gel battery / Customer self-defined | | | | | | | |
| | Battery defining parameter | Constant-voltage charging setting, float-voltage charging setting, battery recovery voltage setting, mains AC recovery voltage setting, low voltage alarm setting, low voltage protection setting | | | | | | | |
| | Battery charging mode | Lead acid battery: constant current, constant voltage, float charging LiFePO ₄ battery: constant current, constant voltage | | | | | | | |
| | Lithium type battery selection | LiFePO ₄ battery: 3.2V per unit NiCoMn battery: 3.7V per unit | | | | | | | |
| Protection | System Protection | Battery low voltage protection / Battery high voltage protection / Overload protection / Over heating protection,etc | | | | | | | |
| Display | LCD display | Mains AC status, DC-AC status, charging status, alarm | | | | | | | |
| | Operating display | Operating status, Input & output voltage, PV module operating information, Inverter operating information and etc. | | | | | | | |
| | Language | English/Chinese (Adjustable) | | | | | | | |
| Switch Time | | < 5ms | | | | | | | |
| Cooling Method | | Smart temperature control system | | | | | | | |
| Communication | | RS232/RS485 | | | | | | | |
| Operating Temperature | | (-10°C~40°C) | | | | | | | |
| Operating Altitude | | ≤3000m | | | | | | | |
| Product Dimensions | | 495*320*220mm | | | | 560*390*200mm | | | |
| Package Dimensions | | 600*380*290mm | | | | 715*420*316mm | | | |
| Net Weight (kg) (Approx) | | 16.5kg | 19.5kg | 22kg | 25kg | 28kg | 31.5kg | 36kg | 40kg |
| Gross Weight (kg) (with wooden crate) (Approx) | | 19.5kg | 22kg | 25kg | 28kg | 31kg | 36kg | 41kg | 45kg |

Remarks: Specifications are subject to change without notice; Special voltage and power requirements can be customized designed