



LSHi

5000/6000/8000/10000/12000-HT

- Max. efficiency **98.2%**
- Max. DC/AC Ratio **150%+**
- Smart energy control supports using PV energy preferentially
- BMS system synergeticed supports longer battery life
- Natural cooling design
- Remote configuration and upgrade



* All pictures shown are for reference only, actual appearance may vary.

LINK YOUR SUSTAINABLE LIFE

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DATASHEET

| Models | LSHi-5000HT | LSHi 6000HT | LSHi 8000HT | LSHi 10000HT | LSHi 12000HT |
|---|-------------|-------------|---|--------------|--------------|
| PV INPUT DATA | | | | | |
| Max.PV power[W] | 7500 | 9000 | 12000 | 15000 | 18000 |
| Max.input voltage[V] | | | 1000 | | |
| Start up voltage[V] | | | 100/145 | | |
| Nominal input voltage[V] | | | 620 | | |
| MPPPT voltage range[V] | | | 150-850 | | |
| Max. input current[A] | | | 15/15 | | |
| Max. short current[A] | | | 20/20 | | |
| No. of MPP trackers | | | 2 | | |
| No. of strings per MPP tracker | | | 1/1 | | |
| BATTERY INPUT DATA | | | | | |
| Battery type | | | LFP (LiFePO4) | | |
| Input voltage range[V] | | | 160-800 | | |
| Max.dis-/charging current[A]* ① | | | 25/25 | | |
| Charging strategy for Li-Ion battery | | | Self-adaption to BMS | | |
| AC OUTPUT/INPUT (GRID) | | | | | |
| Nominal AC power[W] | 5000 | 6000 | 8000 | 10000 | 12000 |
| Max. apparent AC power[VA] | 5500 | 6600 | 8800 | 11000 | 13200 |
| Nominal active power from grid [W] | 10000 | 12000 | 15000 | 15000 | 18000 |
| Max. apparent AC power from grid[VA] | 11000 | 13200 | 16500 | 16500 | 20000 |
| Nominal grid voltage[V] | | | 380/400 | | |
| Nominal grid frequency[Hz] | | | 50/60 | | |
| Max. AC output current[A] | 8.5 | 10.0 | 13.5 | 16.0 | 20.0 |
| Max. AC current from grid[A] | 17.0 | 20.0 | 23.0 | 23.0 | 29.0 |
| Displacement power factor | | | > 0.99 @Nominal power (0.8 leading - 0.8 lagging adjustable) | | |
| Total harmonic distortion(THDi, Nominal power) | | | <3% | | |
| Grid connection | | | 3W/N/PE | | |
| AC OUTPUT DATA (BACK-UP) | | | | | |
| Nominal AC output power[W] | 5000 | 6000 | 8000 | 10000 | 12000 |
| Peak apparent output power[VA] | 10000 | 12000 | 15000 | 15000 | 15000 |
| Nominal output voltage[V] | | | 380/400 | | |
| Nominal output frequency[Hz] | | | 50/60 | | |
| Max. output current[A] | 8.5 | 10.0 | 13.5 | 16.0 | 20.0 |
| Switch time[ms] | | | 10ms (typ) / 20ms (max) | | |
| Total harmonic distortion(THDV, @linear load) | | | <3% @100% R Load | | |
| EFFICIENCY | | | | | |
| MPPPT efficiency[%] | | | 99.9% | | |
| Max. efficiency[%] | | 98.00% | | 98.20% | |
| Euro efficiency[%] | | 97.30% | | | 97.40% |
| Charged efficiency@PV-battery | | | 98.50% | | |
| Charged/discharged efficiency@battery<->grid/load | | | 97.60% | | |
| PROTECTION | | | | | |
| Anti-islanding protection | | | Integrated | | |
| DC input reverse polarity protection | | | Integrated | | |
| Insulation resistor detection | | | Integrated | | |
| Residual current monitoring unit | | | Integrated | | |
| Over current protection | | | Integrated | | |
| AC short protection | | | Integrated | | |
| Over voltage protection | | | Integrated | | |
| Surge protection | | | DC Type II, AC Type II | | |
| Battery revers protection | | | IntegNominal | | |
| GENERAL DATA | | | | | |
| Dimensions(W*H*D)[mm] | | | 425*351*200 | | |
| Weight[Kg] | | | 20 | | |
| Noise emission[dB] | | | <40 | | |
| User Interface | | | LED/LCD | | |
| DC connection type for PV | | | MC4 | | |
| Battery connection type | | | Sunclix | | |
| AC connection type | | | Dedicated AC connector | | |
| Communication interface | | | RS485/CAN (Inverter <-> BMS); RS485 (for Meter); WiFi/4G(Opt) (for Cloud) | | |
| Cooling method | | | Natural | | |
| Operating ambient temperature range[°C] | | | -25 ~+60 | | |
| Allowable relative humidity range[%] | | | 0~100 | | |
| Max. operating altitude[m] | | | 2000(>2000 derating) | | |
| Degree of protection | | | IP65 | | |
| Climatic category (IEC 60721-3-4) | | | 4K4H | | |
| Topology | | | No-isolated | | |
| Power consuption at night[W] | | | <13W | | |
| STANDARD | | | | | |
| Safety&EMC | | | IEC62109-1&2, IEC61727, EN 61000-6-1&2&3 | | |
| Grid | | | CEI 0/EN50549/ | | |

① The actual charge and discharge current / power also depends on the battery.

* All specifications are subject to change without notice.

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* Please visit Linsum website for the latest certificates.