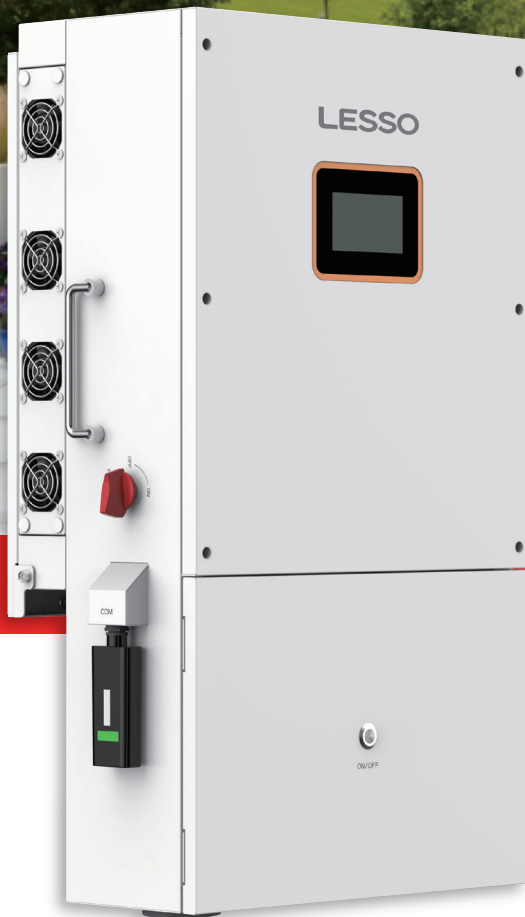


LESSO



Residential Hybrid Inverter

Split-Phase Hybrid Inverter

Battery Low Voltage

Key strengths

- Plug & Play.
- Capable of supporting 100% unbalanced loads.
- 3 phase 208Vac & paralel function available.
- 100A pass through.
- AC couple to retrofit existing solar system(on-grid & off-grid).
- Grid & diesel Generator separately connected, support storing energy from diesel generator.

| Type | LSRTH5KTLS-ML01 | LSRTH6KTLS-ML01 | LSRTH7K6TLS-ML01 | LSRTH8KTLS-ML01 | LSRTH10KTLS-ML01 |
|------|-----------------|-----------------|------------------|-----------------|------------------|
|------|-----------------|-----------------|------------------|-----------------|------------------|

PV input

| | | | | | |
|--------------------------------|-----|---|---------|----|----|
| Max.DC input power (kW) | 7.5 | 9 | 12 | 12 | 15 |
| No. of MPPT trackers | | | 4 | | |
| MPPT voltage range (V) | | | 120-500 | | |
| MAX.DC input voltage (V) | | | 500 | | |
| MAX. input current (A) | | | 14 | | |
| MAX. short circuit current (A) | | | 22 | | |

Battery input

| | | | | | |
|--------------------------------------|---------|---------|----------------------|---------|---------|
| Nominal voltage (V) | | | 48 | | |
| MAX.charging/discharging current (A) | 120/120 | 135/135 | 190/190 | 190/190 | 190/210 |
| Battery voltage range (V) | | | 40-60 | | |
| Battery type | | | Lithium /Lead-acid | | |
| Charging strategy for Li4on battery | | | Self-adaption to BMS | | |

| Type | LSRTH5KTLS-ML01 | LSRTH6KTLS-ML01 | LSRTH7K6TLS-ML01 | LSRTH8KTLS-ML01 | LSRTH10KTLS-ML01 |
|---|---|-----------------|------------------|-----------------|------------------|
| AC output(on-grid) | | | | | |
| Nominal output power output to grid (kVA) | 5 | 6 | 7.6 | 8 | 10 |
| MAX. apparent power output to grid (kVA) | 5.5 | 6.6 | 8.4 | 8.8 | 11 |
| Output voltage range (V) | (110~120)/(220~240)split phase, 240V single phase | | | | |
| Output frequency (Hz) | 60(55 to 65) | | | | |
| Nominal AC current output to grid (A) | 20.8 | 25 | 31.7 | 33.3 | 41.7 |
| Max. AC current output to grid (A) | 22.9 | 27.5 | 34.8 | 36.7 | 45.8 |
| Max. grid passthrough current (A) | 100 | | | | |
| Output THDi | <3% | | | | |

| | | | | | |
|--------------------------------------|-----------------------|-----|-----|-----|----|
| AC output(back-up) | | | | | |
| Nominal. apparent power (kVA) | 5 | 6 | 7.6 | 8 | 10 |
| Max. apparent power (kVA) | 5.5 | 6.6 | 8.4 | 8.8 | 11 |
| Nominal output voltage L-N/L1-L2 (V) | 120/240 | | | | |
| Nominal output frequency (Hz) | 60 | | | | |
| Automatic switchover time (ms) | <20 | | | | |
| Output power factor | 0.8leading~0.8lagging | | | | |
| Output THDu | <2% | | | | |

| | | | | | |
|----------------------------------|-----|--|--|--|--|
| Protection | | | | | |
| Grounding detection | Yes | | | | |
| Arc fault protection | Yes | | | | |
| Island protection | Yes | | | | |
| Battery reverse polarity | Yes | | | | |
| Insulation resistor detection | Yes | | | | |
| Residual current monitoring unit | Yes | | | | |
| Output over current protection | Yes | | | | |
| Back-up output short protection | Yes | | | | |
| Output over voltage protection | Yes | | | | |
| Output under voltage protection | Yes | | | | |

| | | | | | |
|-------------------------------------|--|--|--|--|--|
| General data | | | | | |
| Mppt efficiency | 99.9% | | | | |
| Europe efficiency (PV) | 96.5% | | | | |
| PV to grid efficiency (PV) | 97.2% | | | | |
| Battery to load efficiency | 95.2% | | | | |
| PV to battery charging efficiency | 96.1% | | | | |
| Grid to battery charging efficiency | 95.0% | | | | |
| Output conduit (mm) | 25.4 | | | | |
| PV input conduit (mm) | 25.4 | | | | |
| BAT input conduit (mm) | 35.4 | | | | |
| Operating temperature range (C) | -25~+60 | | | | |
| Relative humidity | 0-95% | | | | |
| Operating altitude | 0~4,000m(Derating above 2,000m altitude) | | | | |
| Ingress protection | IP65/NEMA 3R | | | | |
| Built-in breaker | Optional | | | | |
| Weight (kg) | 48kg(50kg with breaker) | | | | |
| Dimensions W*H*D (mm) | 450 x 820 x 240 | | | | |
| Cooling | FAN cooling | | | | |
| Noise emission (dB) | 38 | | | | |
| Display | LCD,Touch panel(optional) | | | | |
| Communication with BMS/Meter/EMS | RS485, CAN | | | | |
| Supported communication interface | RS485, WLAN, 4G (optional) | | | | |
| Self-consumption | <25W | | | | |
| Safety | UL1741SA all options, UL1699B, CSA 22.2 | | | | |
| EMC | FCC part 15 class B | | | | |
| Support diesel generator | YES | | | | |

| | | | | | |
|-----------------------|--|--|--|--|--|
| Other data | | | | | |
| Peak power (off grid) | 105%,60s / 110%,30s / 120%,10s / 150%,20ms | | | | |