

# LESSO



## LSRR51V100AH-LFP Residential Rack Energy Storage

LSRR series battery packs are rack type residential lithium batteries, designed entirely for residential ESS applications. With our battery technology, you can easily combine it with any mainstream inverter in different scenarios to reduce your electrical bill & back-up your power during grid outage or when power is unavailable



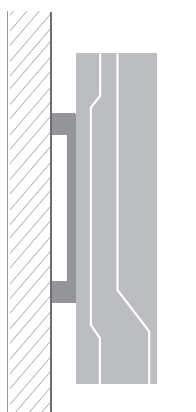
### Modular

Support up to 32 units in parallel, scale from 5 kWh to 160 kWh configuration without external controller

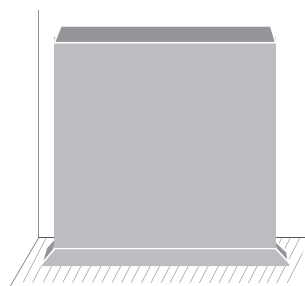


### 4 types of installation

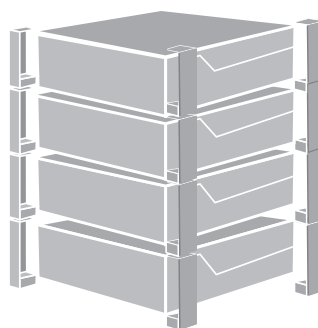
Compact & Flexible. 3U (133mm) standard height design. Optional bracket kits for different installation scenarios.



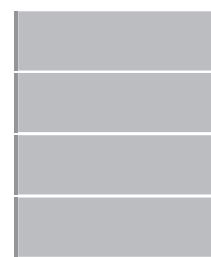
Wall mounted



Floor mounted



Rack mounted



Stack

# LESSO LSRR51V100AH-LFP Residential Rack Energy Storage

| Items                         | LSRR51V100AH-LFP                                    | LSRR51V200AH-LFP | LSRR51V300AH-LFP | LSRR51V400AH-LFP |
|-------------------------------|---|------------------|------------------|------------------|
| Nominal voltage               | 51.2V   | 51.2V            | 51.2V            | 51.2V            |
| Nominal capacity              | 100Ah   | 200Ah            | 300Ah            | 400Ah            |
| Nominal energy                | 5.12kWh   | 10.24kWh         | 15.36kWh         | 20.48kWh         |
| Usable energy                 | 4.92kWh   | 9.84kWh          | 14.76kWh         | 19.68kWh         |
| Operating voltage range       | 44.8V~56.0V   | 44.8V~56.0V      | 44.8V~56.0V      | 44.8V~56.0V      |
| Charge voltage                | 56V   | 56V              | 56V              | 56V              |
| Float voltage                 | 54.6V   | 54.6V            | 54.6V            | 54.6V            |
| Recommended charge current    | 50A   | 50A              | 50A              | 50A              |
| Max. charge current           | 70A   | 70A              | 70A              | 70A              |
| Recommended discharge current | 50A   | 50A              | 50A              | 50A              |
| Max. discharge current        | 100A  | 100A             | 100A             | 100A             |
| Communication                 | RS485 /CAN  |                  |                  |                  |
| Peak discharge current / unit | 101~119A@5mins 120~149A@15S                         |                  |                  |                  |
| IP rating                     | IP20  |                  |                  |                  |
| Cycle life                    | ≥ 6000 cycles @90%DOD                               |                  |                  |                  |
| Net weight / unit             | ≈47kg (103.6lb)                                     |                  |                  |                  |
| Dimension / unit (W*H*D)      | 482*133.5*460mm (18.9*5.2* 18.1 inch)               |                  |                  |                  |
| Cell type                     | Lithium-iron phosphate (LiFePO <sub>4</sub> )       |                  |                  |                  |
| Design life                   | 15 years  |                  |                  |                  |
| Operation temperature         | -10~50°C (14~122°F)                                 |                  |                  |                  |
| Storage temperature           | -10~45°C(14~113°F)                                  |                  |                  |                  |
| Relative humidity             | 5% - 90%, No condensation                           |                  |                  |                  |
| Install altitude              | ≤ 4000m   |                  |                  |                  |
| Install location              | Indoor  |                  |                  |                  |
| Installation                  | Wall mounted / Floor mounted / Stack / Rack mounted |                  |                  |                  |
| Certification                 | CE / IEC62619 / UL1973 / UN38.3                     |                  |                  |                  |

[1] Test conditions: 90% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C

[2] Available energy of the system may be different from various inverter brands

[3] Derating occurs when the operating temperature from -10°C to 10°C & 40°C to 50°C

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