

LIO II-4810 is Lithium-ion battery module specially designed for energy storage system with 48V system

- Lithium Iron Phosphate (LFP) cell guarantees safety and reliability
- Easy to install on the floor
- Suitable for wide range of inverters with 48V system



LITHIUM BATTERY FOR INVERTER



Compact size and Lightweight

Built-in Lithium Iron Phosphate (LFP) cell with less space and weight.



Fast charging

Battery module can be fully charged in shorter time.



Modular design for easy scalable

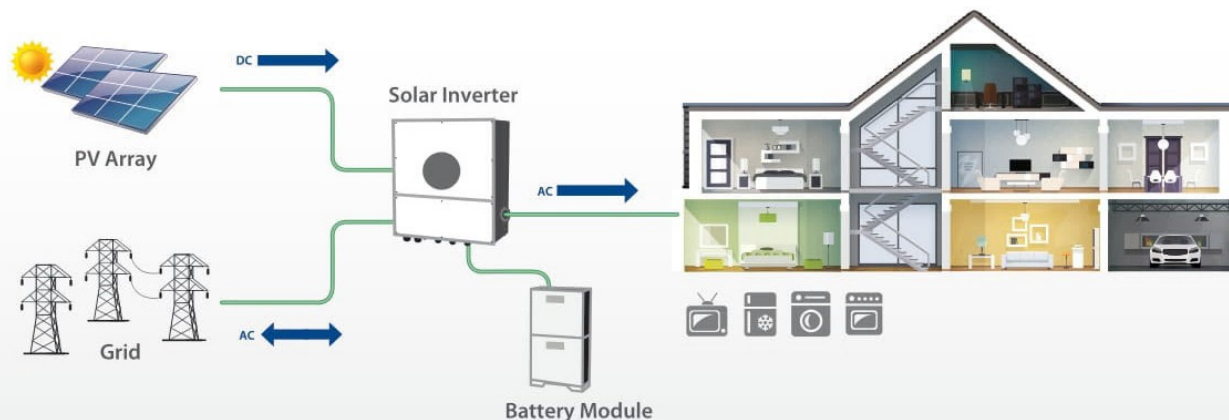
Battery module can be easily stacked and added for energy expansion.

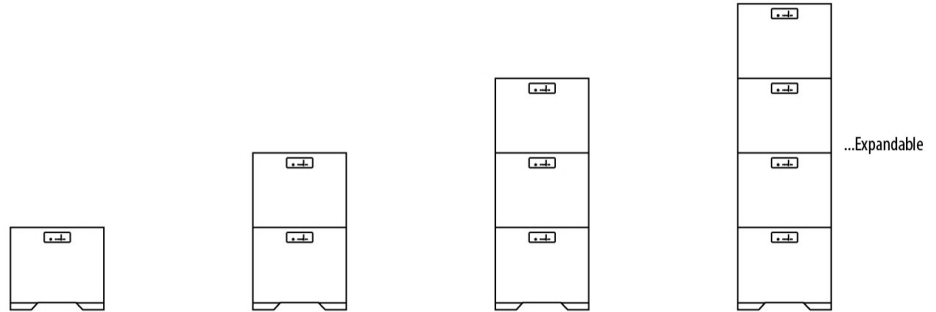


Maximum Lifecycle

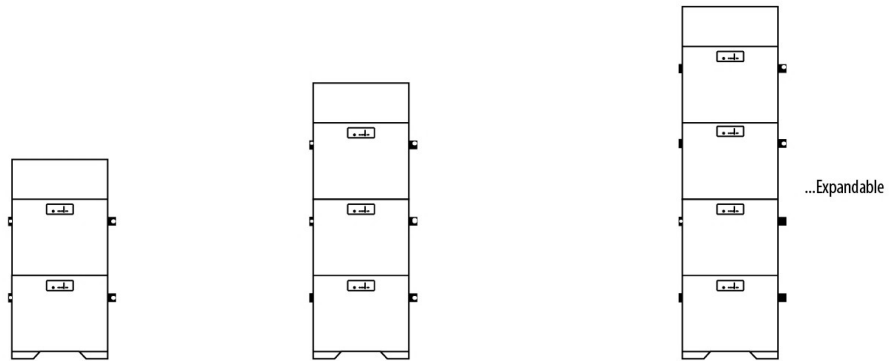
8000 cycles is for 60% DOD with >50% capacity
2000 cycles is for 90% DOD with >80% capacity

System Diagram





| Battery Module | LIO II-4810 (5 kWh, 51.2V) | | | |
|--|----------------------------|-----------------------|-----------------------|-----------------------|
| Battery Cell Technology | Lithium Iron Phosphate | | | |
| Applicable Inverter Rating | ≤ 5.6 kW | | | |
| Number of Module | 1 | 2 | 3 | 4 |
| Usable Energy | 5 kWh | 10 kWh | 15 kWh | 20 kWh |
| Rated Discharging Current | 150 A | 150 A | 150 A | 150 A |
| Peak Discharging Current | 192 A, 1 min | 192 A, 1 min | 192 A, 1 min | 192 A, 1 min |
| Nominal Voltage | 51.2 V | 51.2 V | 51.2 V | 51.2 V |
| Operating Voltage | 38 - 56VDC | 38 - 56VDC | 38 - 56VDC | 38 - 56VDC |
| Charging Current | 100A Max, 30A Default | 100A Max, 30A Default | 100A Max, 30A Default | 100A Max, 30A Default |
| Dimension, D x W x H (mm) without feet | 185 x 540 x 320 | 185 x 540 x 640 | 185 x 540 x 960 | 185 x 540 x 1280 |
| Net Weight (kg) | 48 | 96 | 144 | 192 |



| Battery Module | LIO II-4810 (5 kWh, 51.2V) | | |
|--|----------------------------|-----------------|------------------|
| Battery Cell Technology | Lithium Iron Phosphate | | |
| Applicable Inverter Rating | 6 kW ~ 12 kW | | |
| Number of Module | 2 | 3 | 4 |
| Number of PDU Module | 1 | 1 | 1 |
| Usable Energy | 10 kWh | 15 kWh | 20 kWh |
| Rated Discharging Current | 300 A | 300 A | 300 A |
| Peak Discharging Current | 384 A, 1 min | 384 A, 1 min | 384 A, 1 min |
| Nominal Voltage | 48 V | 51.2 V | 51.2 V |
| Operating Voltage | 38 - 56 VDC | 38 - 56 VDC | 38 - 56 VDC |
| Dimension, D x W x H (mm) without feet | 184 x 540 x 1060 | 185 x 540 x 960 | 185 x 540 x 1280 |
| Net Weight (kg) | 102 | 150 | 198 |

General Specification

| | | |
|---|--|-------------|
| Operation Temperature | Charge | 0°C~50 °C |
| | Discharge | 0°C~50 °C |
| Storage Temperature (At 50% SOC and specified temp, recoverable capacity in % vs time / 50%) | < 18 months: | -20°C~25 °C |
| | < 3 months: | 25°C~45 °C |
| | < 1 months: | 45°C~60 °C |
| | 20°C ± 5 °C is the recommended storage temperature | |
| IP Protection | IP20 | |
| Communication | RS485 port (RJ45), CAN | |
| Certifications | UN38.3, IEC 62619 | |

Product specifications are subject to change without further notice.