

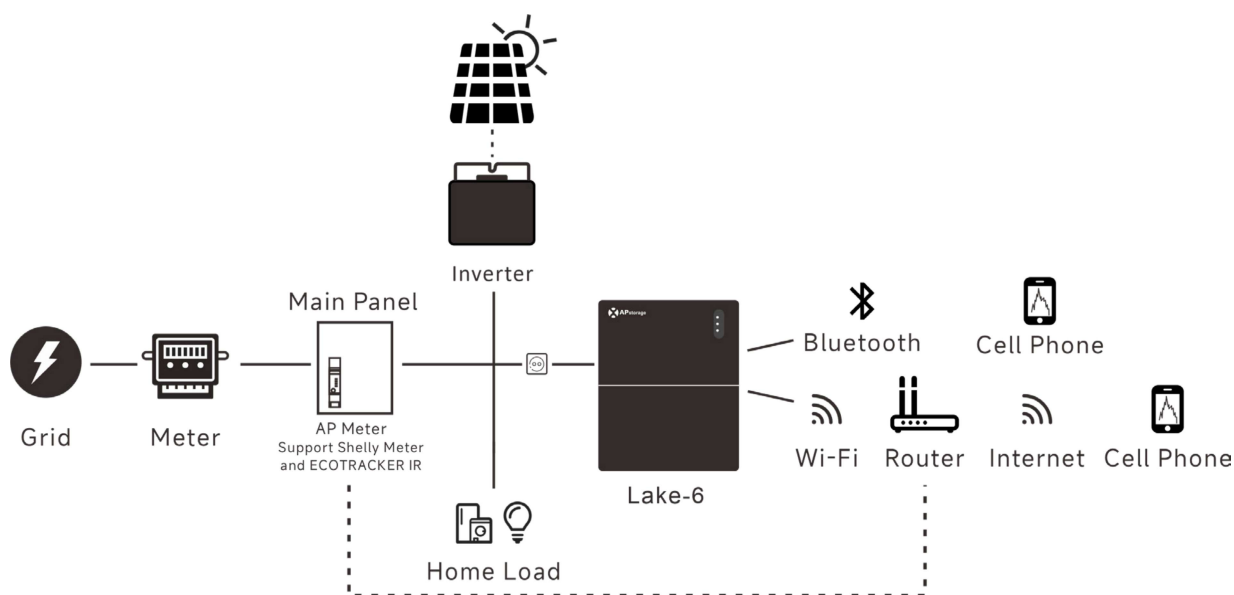


Lake-6

AC-coupled energy storage system

- 2.5kW on-grid input/output, plug-and-play
- 6kWh battery capacity
- 2.5kW backup and off-grid output
- Anti-feed-in, 100% self-consumption (via smart meter)
- RS-485 EMS, peak shaving and valley filling

WIRING SCHEMATIC



Features

Safety

- System-level IP65.
- Intelligent charging technology, protecting battery life.
- High and low voltage isolation topologies, ensuring personal.

Performance

- Fanless design for ultra-quiet operation.
- UPS-level switching time 5ms.
- Cycle life ≥ 8000 cycles.

Flexible

- Multiple connectivity options: Wi-Fi, RS-485, Bluetooth, and LAN.
- 100% compatible with existing PV systems.
- One-touch charge/discharge control.

Intelligent

- 24-hour intelligent energy management system.
- VPP-ready smart dispatch.
- Optimizes PV self-use and peak-valley savings.

Model

Lake-6

Battery Info

Battery Type	LiFePO4
Nominal battery voltage	19.2V
Operating voltage Range	16.8-21.6V
Battery Energy	6.02Kwh
Total Capatcity	314Ah
Maximum continuouscharge/discharge current	150A
Cycle Life	≥8000(25°C)
Depth of Discharge	90%

AC Input and Output (on-grid)

Grid type	Single-phase
Nominal AC voltage ⁽¹⁾	230V
Nominal AC frequency ⁽¹⁾	50Hz
Default output apparent power	800VA
Maximum continuous input/output power	2500VA
Maximum continuous input/output current	10.9A
Power factor range	>0.99(+/- 0.8adj.)
EPS Switch Time	5ms

AC Input and Output (off-grid)

Grid type	Single-phase
Nominal AC voltage	230V
Nominal AC frequency	50Hz
Maximum continuous input/output power	2500VA
Peak output apparent power	3600VA, 10s
Maximum continuous input/output current	10.9A

General Data

Operating Temperature Range (°C)	-20 °C to +60 °C
Ingress Protection(IP) Rating	IP 65
Dimensions(L*W*H)	580mm*210mm*716mm
Weight	68kg
Supported Communication Interface	Wi-Fi / RS-485 / Bluetooth / LAN
Display	LED

(1) The nominal voltage/frequency range may vary based on local requirements.