APstorage

# Lake-6 Plug-in AC-coupled ESS

## Your Home Energy Freedom Starts Here




IP65 protection | Multi-layer safety protection | 10-year warranty | 19.2V low-voltage battery | Zero export | VPP-ready | One-click charge/discharge control | Self-heating

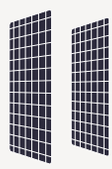
**2500W**
input/output,
ideal for all households

*Supports 100% half-wave loads with output power up to 1250 W

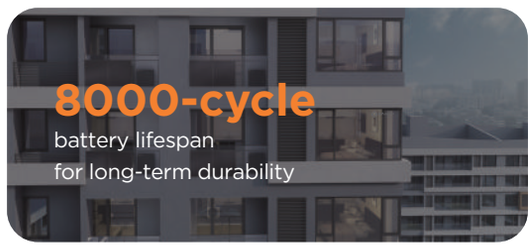



Integrated **6kWh** battery design

**100%** compatible with existing PV systems





**8000-cycle**
battery lifespan
for long-term durability

AI-powered charge/discharge optimization
Save up to **€957** (1) per year

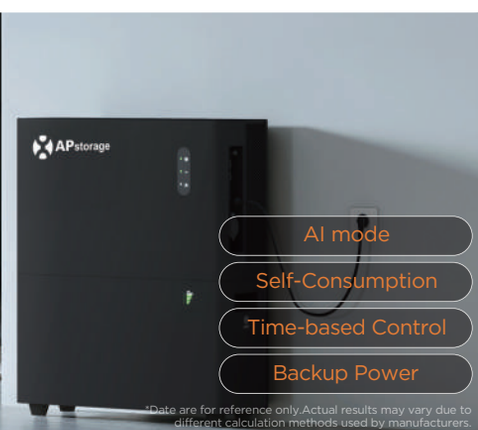
Save up to **1500kWh**
by self-developed light-load energy-saving mode technology

**Plug-and-play**
design for quick installation

Precise battery capacity management
Maximizing battery lifespan

**<20dB** ultra-quiet operation
for enhanced home comfort






*Date are for reference only.Actual results may vary due to different calculation methods used by manufacturers.

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| 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 |
| Maximum output fault current | 94A@3μs |
| Maximum output overcurrent protection | 20A |
| **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 |
| Charging Temperature (°C) | -20°C to +55°C |
| Discharging Temperature (°C) | -20°C to +60°C |
| Ingress Protection(IP) Rating | IP 65 |
| Dimension(L*W*H) | 580mm*210mm*716mm |
| Weight | 68kg |
| Supported Communication Interface | Wi-Fi / RS-485 / Bluetooth / LAN |
| Display | LED |
| Environment category | Outdoor |
| Ingress Protection | Isolated |
| Active anti-islanding method | Power variation |
| Protective Class | Class I |
| Over Voltage Category | III (MAINS), II (Battery) |
| Maximum Altitude | ≤2000m |
| Communication Ports | Ethernet/Bluetooth/RS485/CAN |
| Warranty | 10 Years |

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

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