

AKAI

ENERGY



5 kW Home Battery



10 Year
Warranty



High
Efficiency



Back up
Capability



Online
Monitoring

AFTER SALES SUPPORT 1300 886 605

PROTECT YOUR WARRANTY

This unit must be installed by a registered, licensed installer as required by Government regulations.

Technical Specifications

1800 886 605
After Sales Support

Performance

| | |
|--|-------------------------------|
| Model Number | AKE-5KW-HB |
| Total Energy Capacity (kWh) | 5.120 |
| Usable Energy Capacity (kWh) | 4.096, 80% DOD |
| Nominal Voltage (V) | 51.2 |
| Voltage Range (V) | 40 to 58.4 |
| Battery Capacity (Ah) | 100 |
| Charge Voltage (V) | 58.4 |
| Charge/Discharge Current (A) | 50 (Recommended) 100 (Max) |
| Peak Current (A) | 200 for 3 seconds |
| Max. Charge/Discharge Power (kW) | 4.8 |
| Rated DC Power (kW) | 2.5 |
| Peak Power (kW) | 9.6 for 3 seconds |
| Battery Pack Round Trip Efficiency (%) | 98 |
| Internal Resistance (mΩ) | ≤30 |
| Cycle Life | >6000 , 25 °C |
| DC Disconnect | Contactors |
| Short Circuit Current | 400 |
| Rated Discharge/Charge Power (kW) | 2.5 |

General

| | |
|---|---------------------------------------|
| Battery Type | LiFePO4 (LFP) |
| Dimensions (W x D x H, mm) | 445 x 197 x 610 |
| Weight (kg) | 52.68 |
| Installation | Wall-mounted |
| Environment | Indoor only |
| Ingress Rating | IP65 |
| Operating Temperature Range (°C) | -10 to 50 |
| Transport or Storage Temperature Range (°C) | -20 to 45 |
| Humidity (%) | <85 (No Condensing) |
| Altitude (m) | Max. 2000 |
| Transportation | UN38.3 |
| Cooling Strategy | Natural convection |
| Standards | AS IEC 62691 & AS/NZS 6236 & EN 61000 |
| Warranty | 10 Years |

BMS (Battery Management System)

| | |
|-------------------------|--|
| Communication Interface | CAN / RS-485 / RS-232 |
| SOC | Intelligent algorithm |
| Power Consumption (W) | <2 (Work), <0.1 (Sleep) |
| Monitoring Parameters | System Voltage, Current, Cell Voltage, Cell Temperature, Module Temperature |