



Off-Grid Inverter

AO-3~6KSL-G2

「3/4/5/6kW」



Features



Support Independent Grid / Generator Input

Dual AC inputs and integrated grid-generator switching system



Parallel Connection

Parallel connection with up to 9 units



Smart Load Management

Dual AC outputs design



Faster On / Off-grid Switching

UPS-level switching time:4ms



Remote Monitoring

Built-in WiFi module for HaiPower App monitoring



Efficient Battery Charge / Discharge

Max. 120A charge current

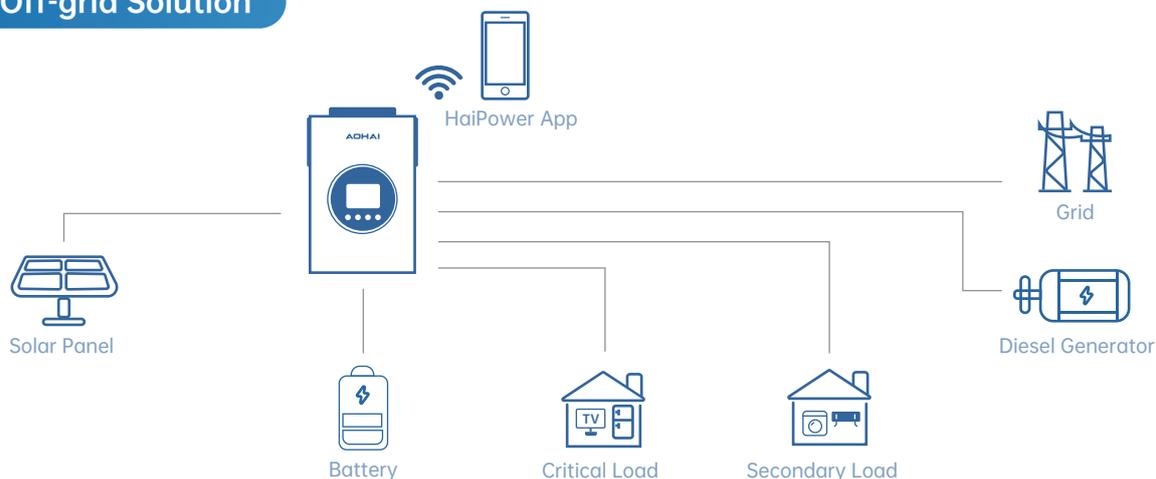
Max. 137A discharge current



Stylish Design

Larger screen with touch keys and LED ring lights

Off-grid Solution



Specifications

| Technical Data | AO-3KSL-G2 | AO-4KSL-G2 | AO-5KSL-G2 | AO-6KSL-G2 |
|---------------------------------------------|-----------------------------------------------------------|------------|------------|------------|
| Solar Input Data | | | | |
| Max. PV Input Power | 3300W | 4400W | 6000W | 7800W |
| Max. Input Voltage | 500V | | 550V | |
| Start-up Voltage | 120V | | | |
| MPPT Voltage Range | 90V~450V | | 90V~500V | |
| Max. Input Current per MPPT | 18A | | 27A | |
| Max. Short Circuit Current per MPPT | 23A | | 32A | |
| Number of MPPT | 1 | | | |
| AC Input Data (Grid & Generator) | | | | |
| Nominal Input Voltage | 230Vac, L / N / PE | | | |
| Input Voltage Range | 90~280Vac (APL); 170~265Vac (UPS) | | | |
| Max. Input Current | 35A | | | |
| Nominal Input Power | 8050W | | | |
| AC Frequency Range | 40~65Hz | | | |
| Battery Data | | | | |
| Battery Type | Li-Ion / Lead-acid | | | |
| Nominal Battery Voltage | 24V | | | 48V |
| Battery Voltage Range | 20~30V | | 42~60V | |
| Max. Discharge Current | 137A | 137A | 115A | 137A |
| Max. Charge / Discharge Power | 3000W | 3300W | 5000W | 6000W |
| Li-Ion Battery Activation | Yes | | | |
| Li-Ion Battery Communication | CAN / RS485 | | | |
| Max. Solar Charge Current | 120A | 120A | 100A | 120A |
| Max. AC Charge Current | 100A | 100A | 80A | 100A |
| Max. Charge Current (PV+AC) | 120A | 120A | 100A | 120A |
| Inverter Output Data | | | | |
| Nominal Output Power | 3000W | 4000W | 5000W | 6000W |
| Peak Apparent AC Power | 6000VA | 8000VA | 10000VA | 12000VA |
| Nominal AC Voltage | 230V | | | |
| Nominal Grid Frequency | 50 / 60Hz (Auto Sensing) | | | |
| Voltage Waveform | Pure Sine Wave | | | |
| Transfer Time | 4ms | | | |
| Max. Output Current | 14A | 18A | 22A | 27A |
| Overload Protection | 30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load | | | |
| THDv (@linear load) | <3% | | | |
| Efficiency | | | | |
| Peak Efficiency | 94% | | | |
| MPPT Efficiency | ≥99.9% | | | |
| Protect | | | | |
| DC Surge Protection | Yes | | | |
| AC Surge Protection | Yes | | | |
| AC Short Circuit Protection | Yes | | | |
| System Parameters | | | | |
| Dimension (W*H*D) | 333*505*120mm | | | |
| Weight | 10.6kg | | | |
| Relative Humidity | 5%~95% (Non-condensing) | | | |
| Operating Temperature Range | -10°C~50°C | | | |
| Noise Emission | ≤50dB | | | |
| Altitude | 4000m | | | |
| Cooling Method | Fan Cooling | | | |
| Ingress Protection | IP21 | | | |
| Characteristic | | | | |
| Number of AC Output | 2 | | | |
| Display | LCD & LED & APP | | | |
| Communication Interface | RS485 / USB / CAN / Wi-Fi | | | |
| Parallel Capability | - | - | 9 | 9 |