

Off-Grid Inverter

AO-3~6KSL-G1

「3/5/6kW」

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: 10ms



Remote Monitoring

Built-in WiFi module for HaiPower App monitoring

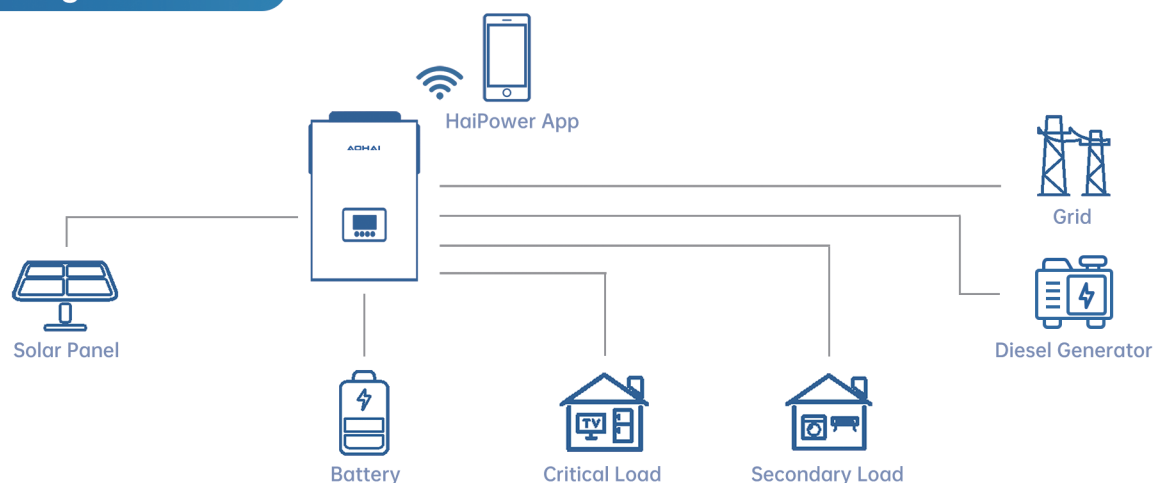


Efficient Battery Charge/Discharge

Max. 120A charge current

Max. 137A discharge current

Off-grid Solution



Specifications

Technical Data

AO-3KSL-G1

AO-5KSL-G1

AO-6KSL-G1

Solar Input Data

Max. PV Input Power	3300W		6000W		7800W
Max. Input Voltage	550V				
Start-up Voltage	120V				
MPPT Voltage Range	90V-500V				
Max. Input Current per Mppt	18A		27A		27A
Max. Short Circuit Current per Mppt	22.5A		33.75A		33.75A
Number of Mppt	1				

AC Input Data (Grid&Generator)

Nominal Input Voltage	230Vac, L/N/PE				
Input Voltage Range	90~280Vac				
Max. Input Current	35A				
Nominal Input Power	8050W				
AC Frequency Range	50/60Hz (Auto sensing)				

Battery Data

Battery Type	Li-Ion/Lead-acid				
Nominal Battery Voltage	48V				
Battery Voltage Range	42~60V				
Max. Discharge Current	80A		115A		137A
Max. Charge/Discharge Power	3000/3840W		5000/5520W		6000/6576W
Li-Ion Battery Activation	Yes				
Li-Ion Battery Communication	CAN/RS485				
Max. Solar Charge Current	80A		100A		120A
Max. AC Charge Current	60A		80A		100A
Max. Charge Current (PV+AC)	80A		100A		120A

Inverter Output Data

Nominal Output Power	3000W		5000W		6000W
Peak Apparent AC Power	6000VA		10000VA		12000VA
Nominal AC Voltage	230V				
Nominal Grid Frequency	50/60Hz				
Voltage Waveform	Pure Sine wave				
Transfer Time	10ms				
Max. Output Current	14A		22A		27A
Overload Protection	3s@130%-150% load; 10s@110%-130% 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*580.5*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	IP20				

Characteristic

Number of AC Output	1		2		2
Display	LCD&APP				
Communication Interface	RS485/ USB /CAN/ Wi-Fi				
Parallel Capability	-		9		9