



AO-3~6KSL-G2

Off-grid Hybrid Inverter 「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: 10ms



Remote Monitoring

Built-in WiFi module for HaiPower App monitoring



Efficient Battery Charge/Discharge

Max. 120A charge current

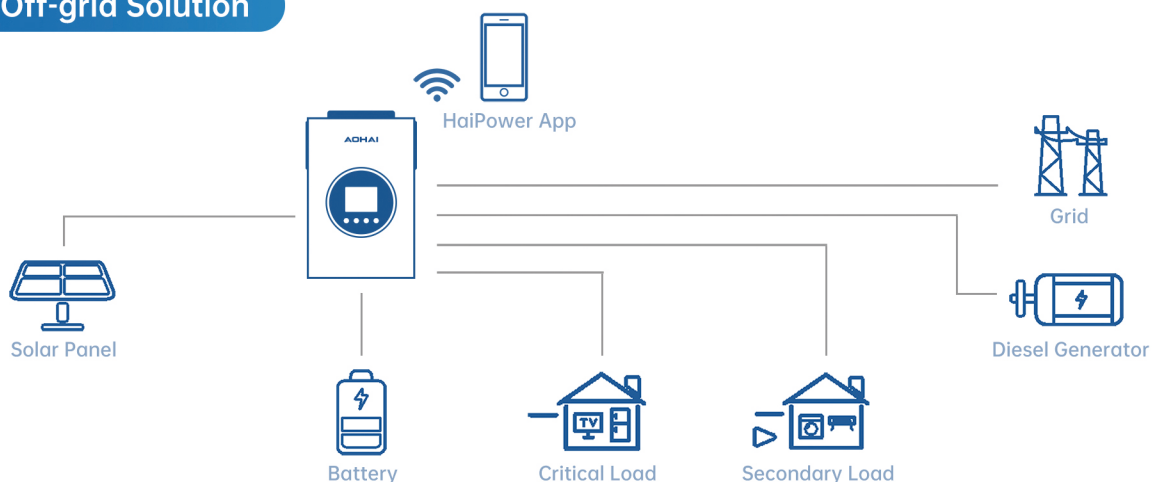
Max. 137A discharge current



Stylish Design

Larger screen with touch keys and LED ring lights

Off-grid Solution



*Wi-Fi, generator and parallel functions are optional based on end-user's demand.

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); 170~280Vac (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	10ms			
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