



AO-3~6KSL-G1

Off-grid Hybrid Inverter 「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

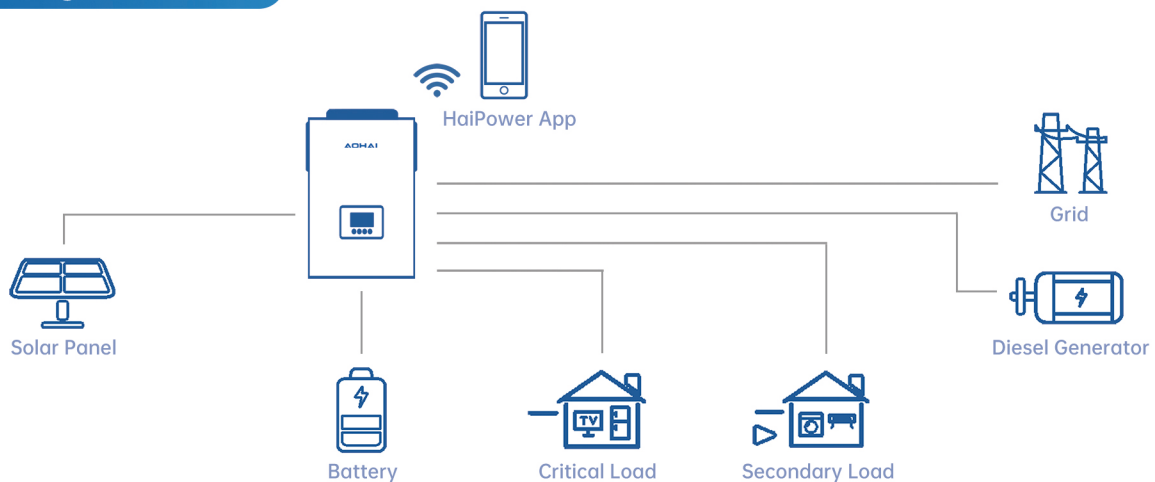


Efficient Battery Charge/Discharge

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		
Coaling 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