



AH-3~6KSL-G2

Single-phase Hybrid Inverter 「3/3.6/4/4.6/5/6kW」

Features

1.8

Oversizing Ratio

DC/AC ratio up to 180%

2

MPPT Channels

Flexible PV input with 2 MPPTs

16A

Max. PV Input Current Per String

String current of up to 16A

550V

Max. Input Voltage

Input voltage of up to 550V

120A

Max. Charge/Discharge Current

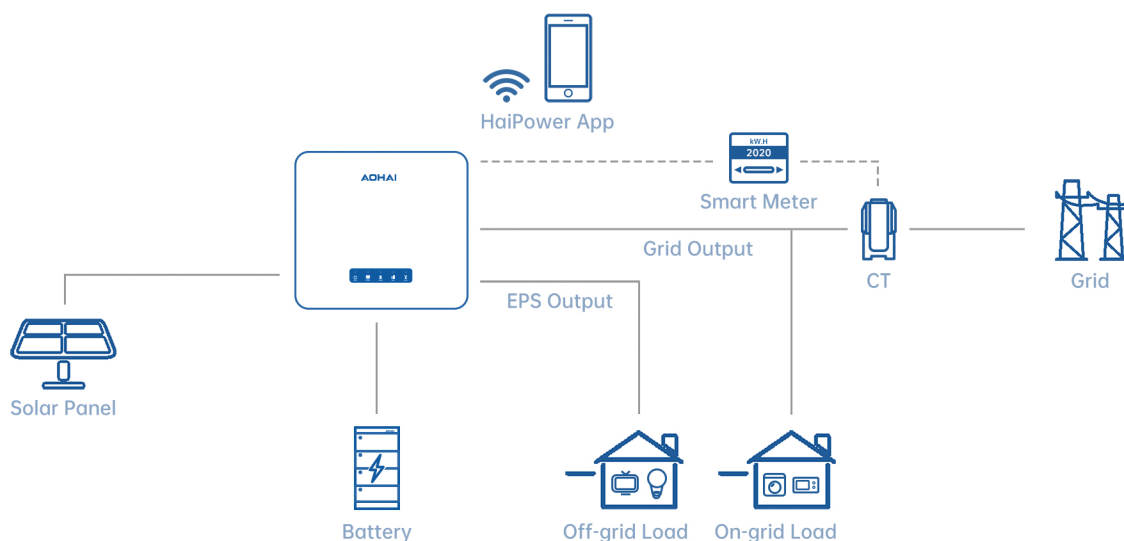
Battery charge/discharge current of up to 120A

25dB

Noise Level

Silent performance with noise level $\leq 25\text{dB}$

Energy Storage Solution



Specifications

Technical Data

AH-3KSL-G2

AH-3.6KSL-G2

AH-4KSL-G2

AH-4.6KSL-G2

AH-5KSL-G2

AH-6KSL-G2

Solar Input Data

Max. PV Input Power	6000W	7200W	8000W	9200W	10000W	10800W
Max. Input Voltage	550V					
Start-up Voltage	120V					
Nominal Input Voltage	360V					
MPPT Operating Voltage Range	90~550V					
Max. Input Current per MPPT	16+16A					
Max. Short Circuit Current per MPPT	20+20A					
Number of MPPT	2					
Number of Strings per MPPT	1+1					

AC Input Data

Nominal Input Voltage	230V,L/N/PE					
Max. AC Current	16A		22A		27A	
Max. Apparent Power	3000VA	3600VA	4000VA	4600VA	5000VA	6000VA
AC Frequency Range	50/45~55Hz, 60/55~65Hz					

Battery Data

Battery Type	Li-Ion/Lead-acid					
Nominal Battery Voltage	52V					
Battery Voltage Range	42~59V					
Max. Charge/Discharge Current	66.7A	80A	87A	100A	100A	120A
Max. Charge/Discharge Power	3000W	3600W	4000W	4600W	5000W	6000W

AC Output Data(On-Grid)

Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Max. Apparent Output Power	3000VA	3600VA	4000VA	4600VA	5000VA	6000VA
Nominal Output Voltage	230V,L/N/PE					
Nominal Grid Frequency/Range	50/45~55Hz, 60/55~65Hz					
Nominal Output Current	16A		22A		27A	
Max. Output Current	16A		22A		27A	
Power Factor	~1(Adjustable from 0.8 leading to 0.8 lagging)					
THDi(nominal power)	< 3%					

AC Output Data(Back-UP)

Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Max. Apparent Power	3600VA	4320VA	4800VA	5520VA	6000VA	6000VA
Nominal AC Voltage	230V					
Nominal Grid Frequency	50/60Hz					
Nominal Output Current	16A		22A		27A	
THDv (@linear load)	< 3%					

Efficiency

Max. Efficiency	97.2%	97.2%	97.3%	97.4%	97.5%	97.6%
European Efficiency	97.0%	97.0%	97.1%	97.1%	97.2%	97.2%
MPPT Efficiency	≥99.5%					

Protection

PV Reverse Polarity Protection	Yes
Anti-islanding Protection	Yes
Output Short Protection	Yes
Ground Fault Monitoring	Yes
Insulation Resistance Monitoring	Yes
Over-current Protection	Yes
Over-temperature Protection	Yes
AC/DC Surge Protection	Yes
DC Switch	Yes
Residual Current Monitoring	Yes
Grid Monitoring	Yes

General Data

Dimension (W*H*D)	550*500*186mm
Weight	30kg
Relative Humidity	0%~95%
Operating Temperature Range	-25~+60°C (Derating above > 45°C)
Noise Emission	<25dB
Altitude	4000m
Cooling Method	Natural
Ingress Protection	IP65
Communication	RS485/USB/CAN/WiFi, GPRS(Optional)
Display	LED&APP
PV Connector	MC4
Battery Connector	Connector
AC Connector	Connector