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

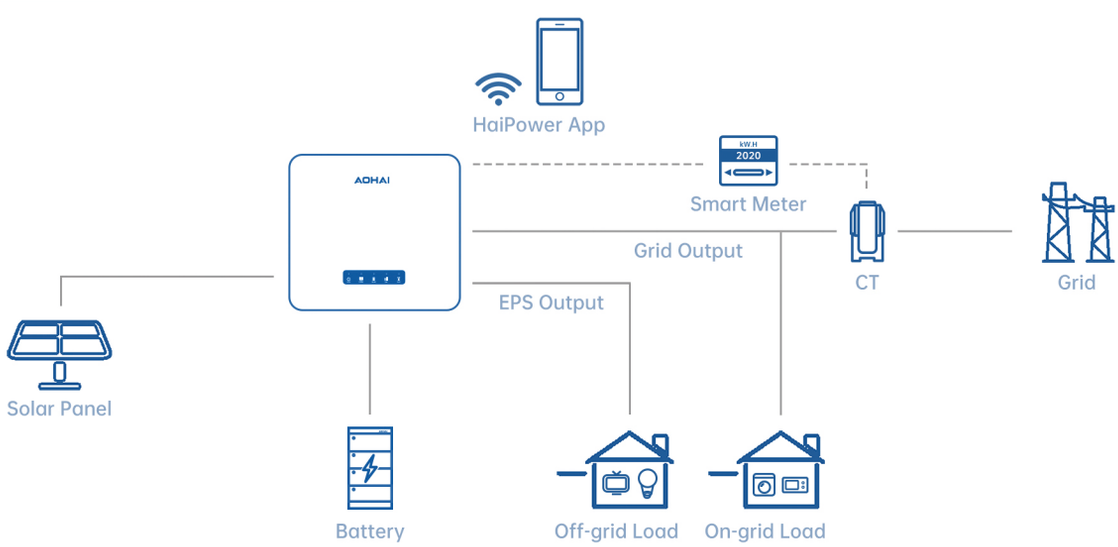
16A
Max. PV Input Current Per String
String current of up to 16A

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 ⩽ 25dB

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℃ (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					