



Single-phase Hybrid Inverter

**AH-3~6KSL-G2**

**「3/3.6/4/4.6/5/6kW」**

**Features**



**Dual MPPTs**

Dual MPPTs with per MPPT current of 16A



**Overload Capacity**

1.2 times the rated power for 10s



**Efficient Battery Charge / Discharge**

Max. battery charge / discharge current of up to 120A



**AC Coupling**

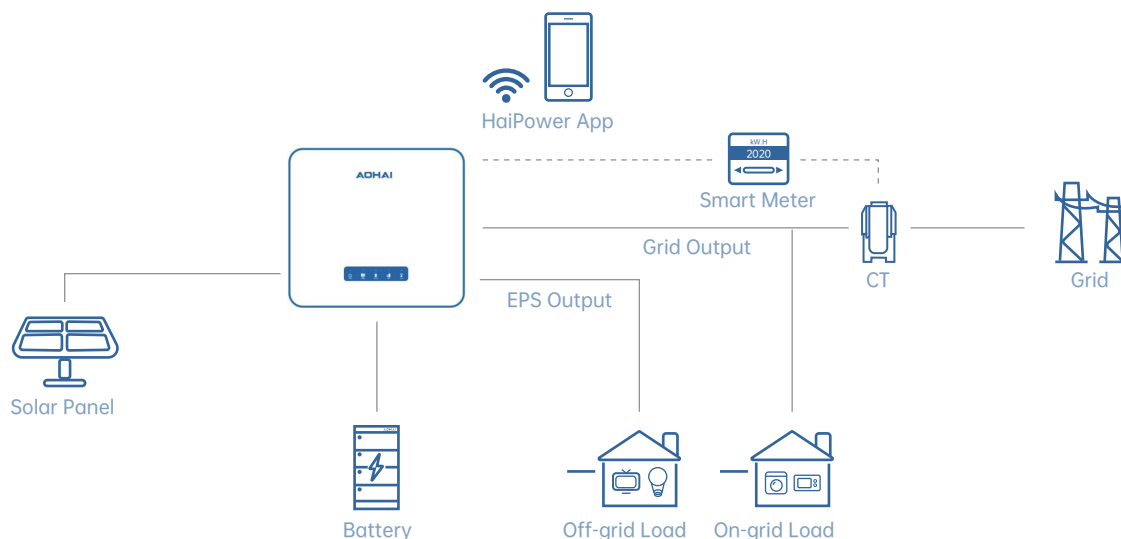
Allow connection to grid-tied inverters for capacity expansion



**Silent Performance**

Fanless design with noise level below 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)	550mm*500mm*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	MC4
PV Connector	LED & APP
Battery Connector	Connector
AC Connector	Connector