



Single-phase Hybrid Inverter

AH-3~6KSL-G2

「3/3.6/4/4.6/5/6kW」

Features

 **Dual MPPTs**
DualMPPTswith per MPPT current of 16A

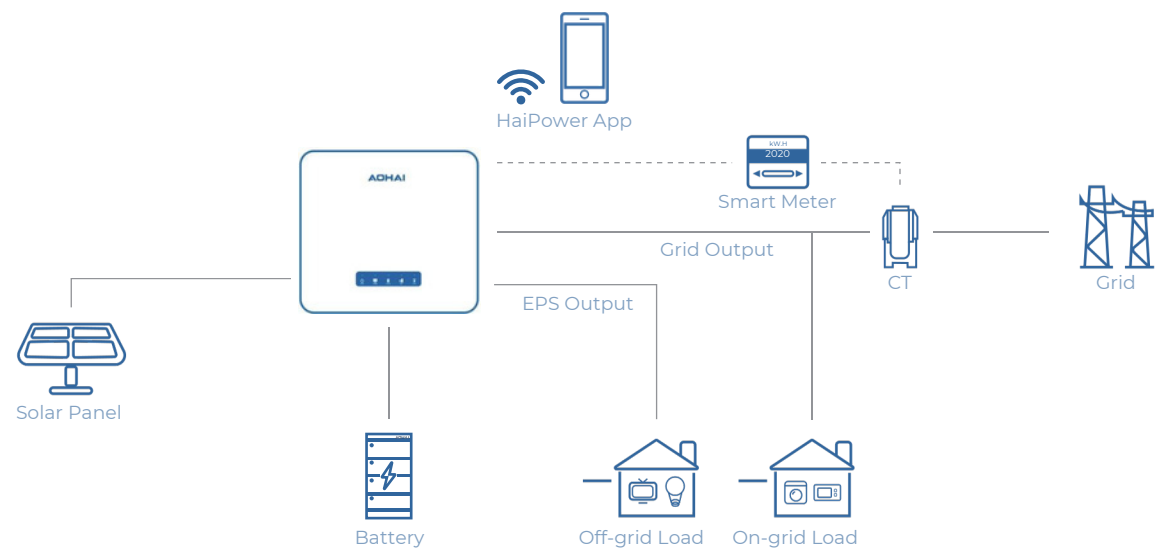
 **Overload Capacity**
1.2timestheratedpower for 10s

 **Efficient Battery Charge / Discharge**
Max. battery charge / discharge current of up to 120A

 **AC Coupling**
Allowconnection to grid-tied inverters for capacity expansion

 **Silent Performance**
Fanlessdesignwithnoise 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
Nominal Output Power						
Max. Apparent Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Nominal Output Voltage	3000VA	3600VA	4000VA	4600VA	5000VA	6000VA
Nominal Grid Frequency / Range	230V, L / N / PE					
Nominal Output Current	50 / 45~55Hz, 60 / 55~65Hz					
Max. Output Current	16A		22A		27A	
Power Factor	16A		22A		27A	
THDi (nominal power)	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
	<3%					
Nominal Output Power						
Max. Apparent Power	3000W	3600W	4000W	4600W	5000W	6000W
Nominal AC Voltage	3000W	3600W	4000W	4600W	5000W	6000W
Nominal Grid Frequency	3600VA	4320VA	4800VA	5520VA	6000VA	6000VA
Nominal Output Current	230V					
THDv (@linear load)	50 / 60Hz					
	16A		22A		27A	
	<3%					
Max. Efficiency						
European Efficiency	97.2%	97.2%	97.3%	97.4%	97.5%	97.6%
MPPT Efficiency	≥99.5%					
Protection						
PV Reverse Polarity Protection	Ye					
Anti-islanding Protection	s					
Output Short Protection	Ye					
Ground Fault Monitoring	s					
Insulation Resistance Monitoring	Ye					
Over-current Protection	s					
Over-temperature Protection	Ye					
AC / DC Surge Protection	s					
DC Switch	Ye					
Residual Current Monitoring	s					
Grid Monitoring	Ye					
	s					
Dimension (W*H*D)	Ye					
Weight	s					
Relative Humidity	550mm*500mm*186mm					
Operating Temperature Range	Ye					
Noise Emission	30kg					
Altitude	s					
Cooling Method	0%~95%					
Ingress Protection	Ye					
Communication	-25~+60℃ (Derating above >45℃)					
Display	s					
PV Connector	≤25dB					
Battery Connector	Ye					
AC Connector	4000m					
	s					
	Natural					
	Ye					
	IP65					
	s					
	RS485 / USB / CAN / WiFi / GPRS (Optional)					
	MC4					
	LED & APP					
	Connector					
	Connector					