

AH-4~10KTH-G1

Three-phase Hybrid Inverter 「4/5/6/7/8/10kW」



Features

1.5

Oversizing Ratio

DC/AC ratio up to 150%

2

MPPT Channels

Flexible PV input with 2 MPPTs

16A

Max. PV Input Current Per String

String current up to 16A, MPPT current up to 32A

100%

Unbalanced Output

100% three-phase unbalanced output

10ms

Switchover Time

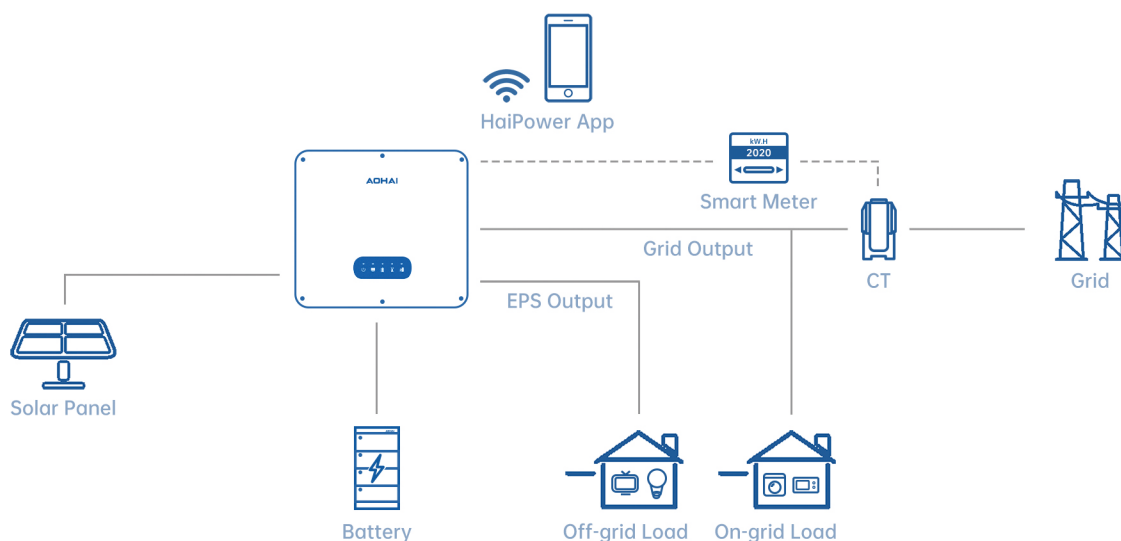
UPS level switching time $\leq$ 10ms

IP66

Ingress Protection Rating

IP66 protection for outdoor installation

Energy Storage Solution



Specifications

Technical Data

AH-4KTH-G1

AH-5KTH-G1

AH-6KTH-G1

AH-7KTH-G1

AH-8KTH-G1

AH-10KTH-G1

Solar Input Data

Max. PV Input Power	6000W	7500W	9000W	10500W	12000W	15000W
Max. Input Voltage				1000V		
Start-up Voltage				120V		
Nominal Input Voltage				600V		
MPPT Operating Voltage Range				120~1000V		
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				220/380V, 230/400V, 3L/N/PE		
Max. AC Current	6.1A	7.6A	9.1A	10.6A	12.2A	15.2A
Max. Apparent Power	4000VA	5000VA	6000VA	7000VA	8000VA	10000VA
AC Frequency Range				50/45~55Hz, 60/55~65Hz		

Battery Data

Battery Type				Li-Ion/Lead-acid		
Nominal Battery Voltage				415V		
Battery Voltage Range				100~550V		
Max. Charge/Discharge Current				25A		
Max. Charge/Discharge Power	4000W	5000W	6000W	7000W	8000W	10000W
Number of Battery Input				1		

AC Output Data(On-Grid)

Nominal Output Power	4000W	5000W	6000W	7000W	8000W	10000W
Max. Apparent Output Power	4000VA	5000VA	6000VA	7000VA	8000VA	10000VA
Nominal Output Voltage				220/380V, 230/400V, 3L/N/PE		
Nominal Grid Frequency/Range				50/45~55Hz, 60/55~65Hz		
Max. Output Current	6.1A	7.6A	9.1A	10.6A	12.2A	15.2A
Power Factor				~1(Adjustable from 0.8 leading to 0.8 lagging)		
THDi(nominal power)				< 3%		

AC Output Data(Back-UP)

Nominal Output Power	4000W	5000W	6000W	7000W	8000W	10000W
Max. Apparent Power	4000VA	5000VA	6000VA	7000VA	8000VA	10000VA
Nominal AC Voltage				220/380V, 230/400V, 3L/N/PE		
Nominal Grid Frequency				50/60 Hz		
Max. Output Current	6.1A	7.6A	9.1A	10.6A	12.2A	15.2A
THDv (@linear load)				< 3%		

Efficiency

Max. Efficiency	97.60%
European Efficiency	97.20%
MPPT Efficiency	99.90%

Protection

PV Reverse Polarity Protection	Yes
Battery Reverse Protection	Yes
Anti-islanding Protection	Yes
Output Short Protection	Yes
Ground Fault Monitoring	Yes
Insulation Resistance Monitoring	Yes
DC Switch	Yes
Residual Current Monitoring	Yes

General Data

Dimension (W*H*D)	545*480*195mm
Weight	31.9kg
Relative Humidity	0%~100%
Operating Temperature Range	-25~+60°C (Derating above > 45°C)
Noise Emission	< 35dB
Altitude	3000m (Derating above > 2000m)
Cooling Method	Natural
Ingress Protection	IP66
Communication	RS485/USB, CAN/WiFi, GPRS(Optional)
Display	LED&APP
PV Connector	MC4
Battery Connector	Connector
AC Connector	Connector