

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

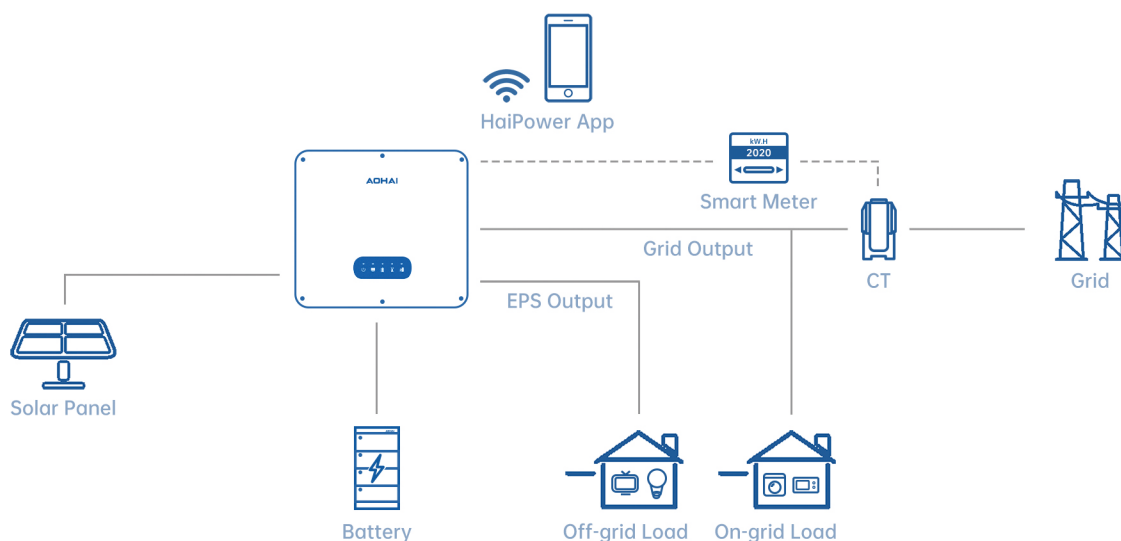
UPS level switching time $\leq 10\text{ms}$

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