

Three-phase Hybrid Inverter

AH-4~10KTH-G1

「4/5/6/7/8/10kW」



Features



2 MPPTs

Dual MPPTs with per MPPT current of up to 16A



AC Coupling

Allow connection to grid-tied inverters for capacity expansion



Seamless Switchover

UPS-level switching time: 10ms



Unbalanced Output

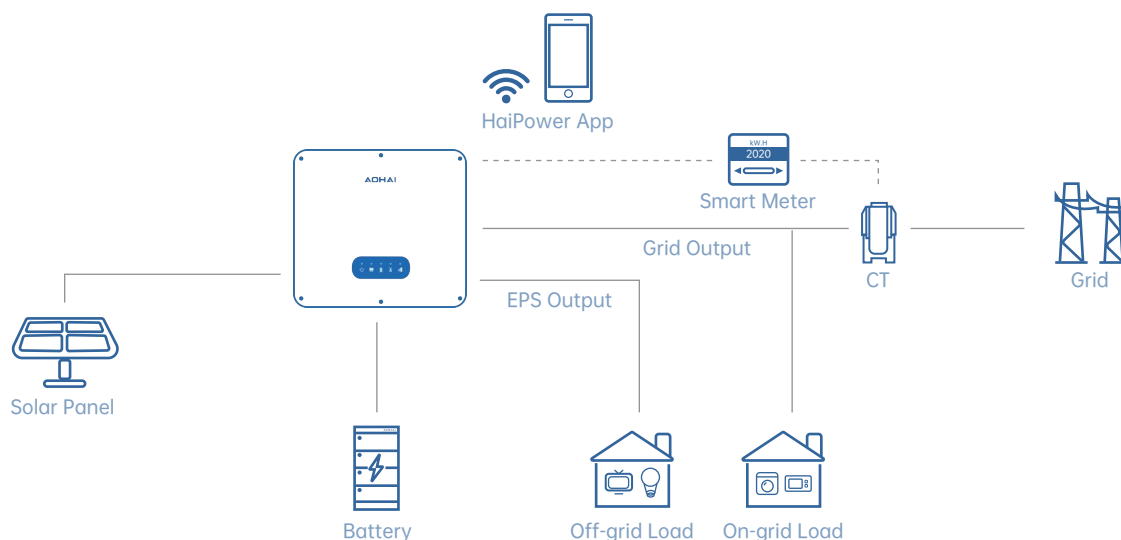
Support 100% unbalanced output of each phase



Proven Safety

IP66 rated inverter ideal for outdoor installation in harsh environment

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)	545mm*480mm*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