



AOHAI DIGITAL POWER

Residential Energy Storage Solutions

www.digitalpoweraohai.com

ABOUT US

Founded in 2004, Aohai is an efficient energy solution provider and a global manufacturer with three main businesses focusing on Consumer Electronics, Electronic Control for Electric Vehicles, Digital Power.

In 2023, Aohai has ranked first with a share of 17% in global smart phone charger market, achieving robust partnership with world-famous brands, such as Xiaomi, Vivo, Oppo, Transsion.

With a strong commitment to technological advancement and environmental stewardship, Aohai Digital Power focuses on providing efficient energy solutions for global home owners with a robust product portfolio encompassing Inverters, Energy Storage Batteries, and EV Chargers. We are poised to shape a greener future, empowering homes with clean, reliable, and smart power solutions.

| **2004**

Established

| **10,000+**

Employees

| **5**

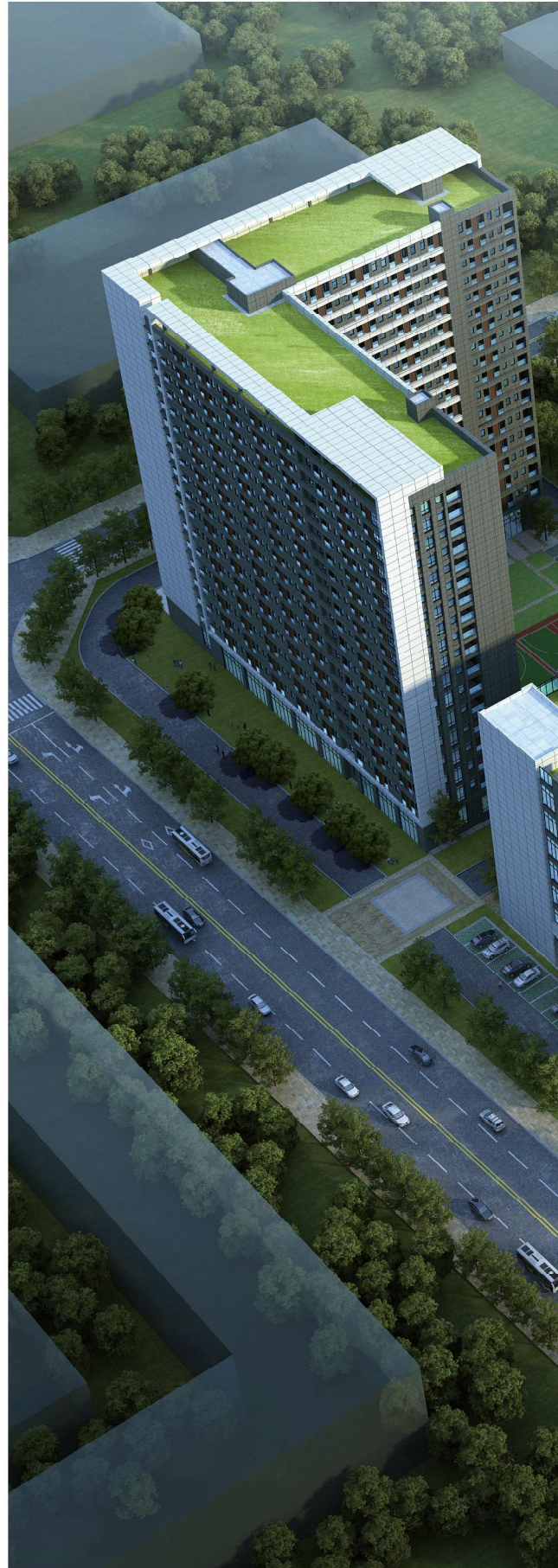
R&D Centers

| **5**

Global Offices

| **6**

Global Manufacturing Bases





PRODUCT PORTFOLIO

Energy Storage Inverter



Single-phase
3-6kW



Three-phase
4-10kW



Off-grid
3-6kW



Off-grid
3-6kW

Battery System



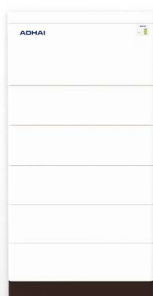
Low Voltage
5.12-10.24kWh



Low Voltage
6.5-9.8kWh



Low Voltage
5.12-30.72kWh

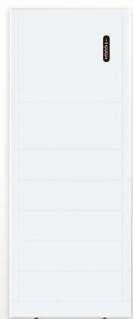


High Voltage
7.68-25.6kWh



High Voltage
6.68-13.37kWh

Energy Storage System



All-in-one ESS
6-10kW | 7.68-25.6kWh

EV Charger



AC Charger
7-22kW

CERTIFICATE AUTHORITY





AH-3~6KSL-G2

Single-phase Hybrid Inverter 「3/3.6/4/4.6/5/6kW」

Features

1.8

Oversizing Ratio

DC/AC ratio up to 180%

2

MPPT Channels

Flexible PV input with 2 MPPTs

16A

Max. PV Input Current Per String

String current of up to 16A

550V

Max. Input Voltage

Input voltage of up to 550V

120A

Max. Charge/Discharge Current

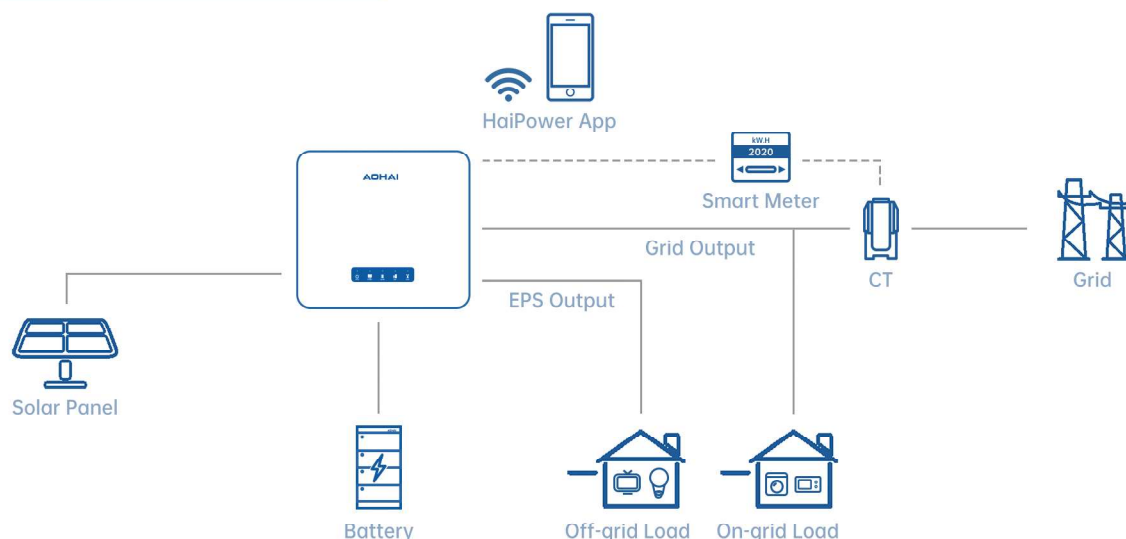
Battery charge/discharge current of up to 120A

25dB

Noise Level

Silent performance with noise level $\leq 25\text{dB}$

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)	550*500*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	LED&APP
PV Connector	MC4
Battery & AC Connector	Connector
Warranty	Standard 5 Years, Optional to 10 Years

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

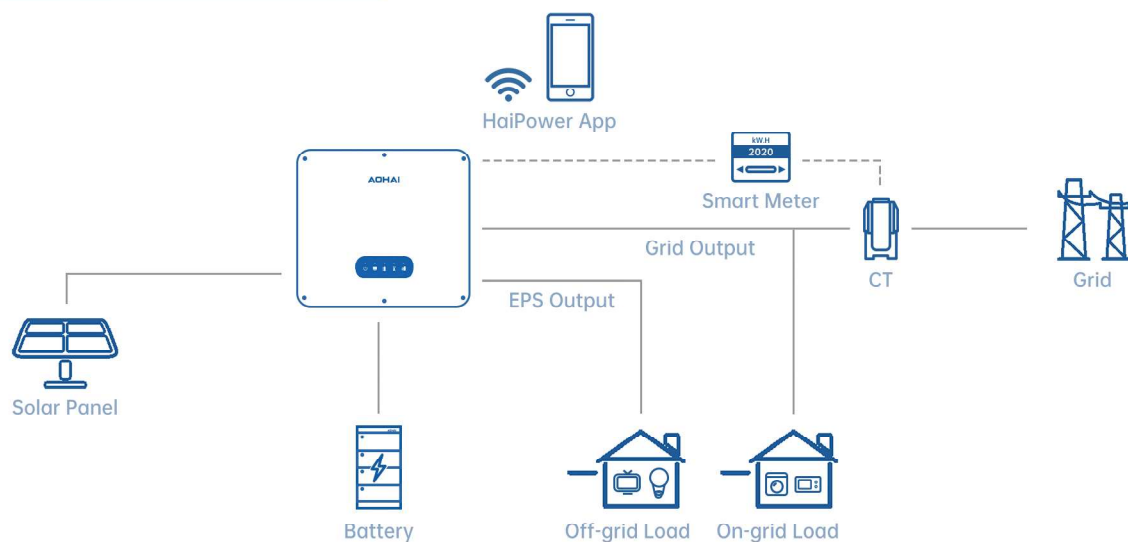
UPS level switching time $\leq 10\text{ms}$

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 & AC Connector	Connector					
Warranty	Standard 5 Years, Optional to 10 Years					



AO-3~6KSL-G1

Off-grid Hybrid Inverter 「3/5/6kW」

Features



Support Independent Grid/Generator input

Dual AC inputs and integrated grid-generator switching system



Parallel Connection

Parallel connection with up to 9 units



Smart Load Management

Dual AC outputs design



Faster On/Off-grid Switching

UPS-level switching time: 10ms



Remote Monitoring

Built-in WiFi module for HaiPower App monitoring

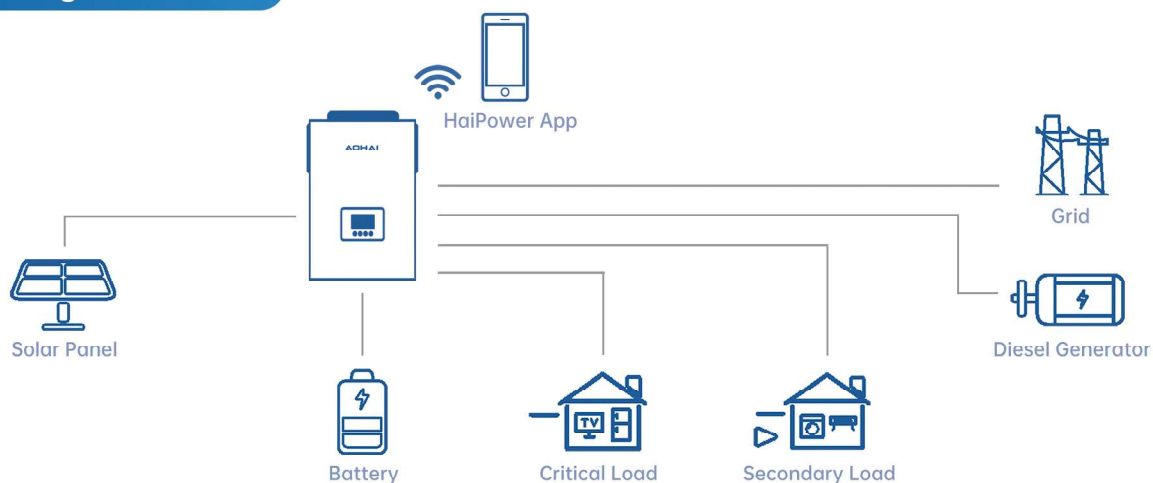


Efficient Battery Charge/Discharge

Max. 120A charge current

Max. 137A discharge current

Off-grid Solution



*Wi-Fi, generator and parallel functions are optional based on end-user's demand

Specifications

Technical Data

AO-3KSL-G1

AO-5KSL-G1

AO-6KSL-G1

Solar Input Data

Max. PV Input Power	3300W		6000W		7800W
Max. Input Voltage			550V		
Start-up Voltage			120V		
MPPT Voltage Range			90V-500V		
Max. Input Current per Mppt	18A		27A		27A
Max. Short Circuit Current per Mppt	22.5A		33.75A		33.75A
Number of Mppt			1		

AC Input Data (Grid&Generator)

Nominal Input Voltage	230Vac, L/N/PE
Input Voltage Range	90~280Vac
Max. Input Current	35A
Nominal Input Power	8050W
AC Frequency Range	50/60Hz (Auto sensing)

Battery Data

Battery Type	Li-Ion/Lead-acid				
Nominal Battery Voltage	48V				
Battery Voltage Range	42~60V				
Max. Discharge Current	80A		115A		15 /A
Max. Charge/Discharge Power	3000/3840W		5000/5520W		6000/6576W
Li-Ion Battery Activation	Yes				
Li-Ion Battery Communication	CAN/RS485				
Max. Solar Charge Current	80A		100A		120A
Max. AC Charge Current	60A		80A		100A
Max. Charge Current (PV+AC)	80A		100A		120A

Inverter Output Data

Nominal Output Power	3000W		5000W		6000W
Peak Apparent AC Power	6000VA		10000VA		12000VA
Nominal AC Voltage			230V		
Nominal Grid Frequency			50/60Hz		
Voltage Waveform			Pure Sine wave		
Transfer Time			10ms		
Max. Output Current	14A		22A		27A
Overload Protection			3s@130%-150% load; 10s@110%-130% load		
THDv (@linear load)			<3%		

Efficiency

Peak Efficiency	94%
MPPT Efficiency	>99.9%

Protect

DC Surge Protection	Yes
AC Surge Protection	Yes
AC Short Circuit Protection	Yes

System Parameters

Dimension (W*H*D)	333*580.5*120mm
Weight	10.6kg
Relative Humidity	5%~95% (Non-condensing)
Operating Temperature Range	-10°C-50°C
Noise Emission	≤50dB
Altitude	4000m
Cooling Method	Fan Cooling
Ingress Protection	IP20

Characteristic

Number of AC Output	1		2		2
Display			LCD&APP		
Communication Interface			RS485/ USB /CAN/ Wi-Fi		
Parallel Capability	-		9		9



AO-3~6KSL-G2

Off-grid Hybrid Inverter 「3/4/5/6kW」

Features



Support Independent Grid/Generator Input

Dual AC inputs and integrated grid-generator switching system



Parallel Connection

Parallel connection with up to 9 units



Smart Load Management

Dual AC outputs design



Faster On/Off-grid Switching

UPS-level switching time: 10ms



Remote Monitoring

Built-in WiFi module for HaiPower App monitoring



Efficient Battery Charge/Discharge

Max. 120A charge current

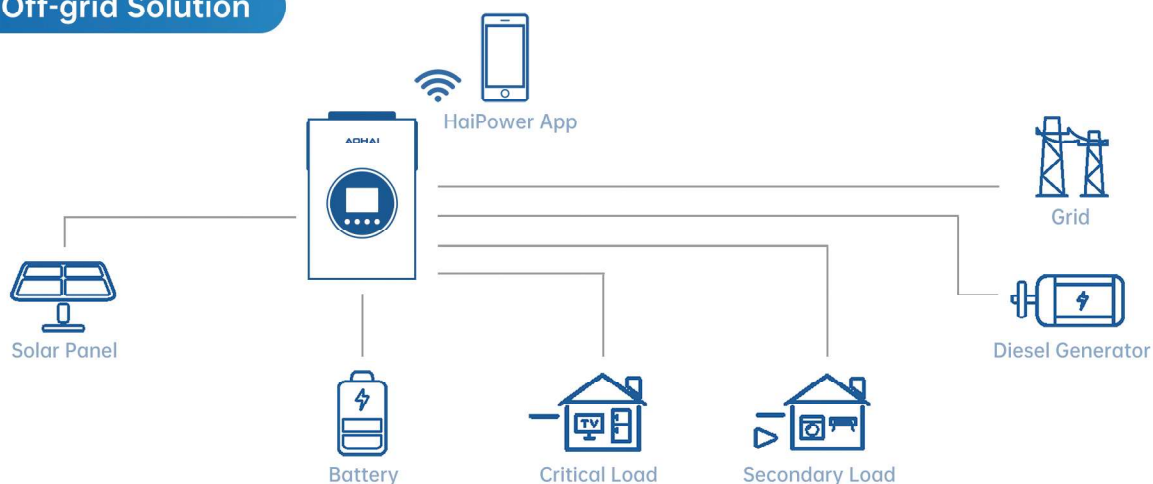
Max. 137A discharge current



Stylish Design

Larger screen with touch keys and LED ring lights

Off-grid Solution



*Wi-Fi, generator and parallel functions are optional based on end-user's demand.

Specifications

Technical Data

AO-3KSL-G2

AO-4KSL-G2

AO-5KSL-G2

AO-6KSL-G2

Solar Input Data

Max. PV Input Power	3300W	4400W	6000W	7800W
Max. Input Voltage	500V		550V	
Start-up Voltage		120V		
MPPT Voltage Range	90V~450V		90V~500V	
Max. Input Current per MPPT	18A		27A	
Max. Short Circuit Current per MPPT	23A		32A	
Number of MPPT		1		

AC Input Data (Grid&Generator)

Nominal Input Voltage	230Vac, L/N/PE
Input Voltage Range	90~280Vac (APL); 170~280Vac (UPS)
Max. Input Current	35A
Nominal Input Power	8050W
AC Frequency Range	40~65Hz

Battery Data

Battery Type		Li-Ion/Lead-acid					
Nominal Battery Voltage	24V		48V				
Battery Voltage Range	20~30V		42~60V				
Max. Discharge Current	137A		137A		115A		137A
Max. Charge/Discharge Power	3000W		3300W		5000W		6000W
Li-Ion Battery Activation	Yes						
Li-Ion Battery Communication	CAN/RS485						
Max. Solar Charge Current	120A		120A		100A		120A
Max. AC Charge Current	100A		100A		80A		100A
Max. Charge Current (PV+AC)	120A		120A		100A		120A

Inverter Output Data

Nominal Output Power	3000W	4000W	5000W	6000W
Peak Apparent AC Power	6000VA	8000VA	10000VA	12000VA
Nominal AC Voltage	230V			
Nominal Grid Frequency	50/60Hz (Auto Sensing)			
Voltage Waveform	Pure Sine Wave			
Transfer Time	10ms			
Max. Output Current	14A	18A	22A	27A
Overload Protection	30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load			
THDv (@linear load)	<3%			

Efficiency

Peak Efficiency	94%
MPPT Efficiency	>99.9%

Protect

DC Surge Protection	Yes
AC Surge Protection	Yes
AC Short Circuit Protection	Yes

System Parameters

Dimension (W*H*D)	333*505*120mm
Weight	10.6kg
Relative Humidity	5%~95% (Non-condensing)
Operating Temperature Range	-10°C~50°C
Noise Emission	≤50dB
Altitude	4000m
Cooling Method	Fan Cooling
Ingress Protection	IP21

Characteristic

Number of AC Output	2			
Display	LCD&LED&APP			
Communication Interface	RS485/ USB /CAN/ Wi-Fi			
Parallel Capability	-	-	9	9



AS-5.12~10.24LB-GL1

Low Voltage Battery 「5.12/10.24kWh」

Features



Stable Performance

Lithium iron phosphate (LiFePO4) battery



Flexible Expansion

Max. 15pcs in parallel for capacity expansion



Higher Extendibility

Multiple interfaces ready for further function extension



Optional Installation

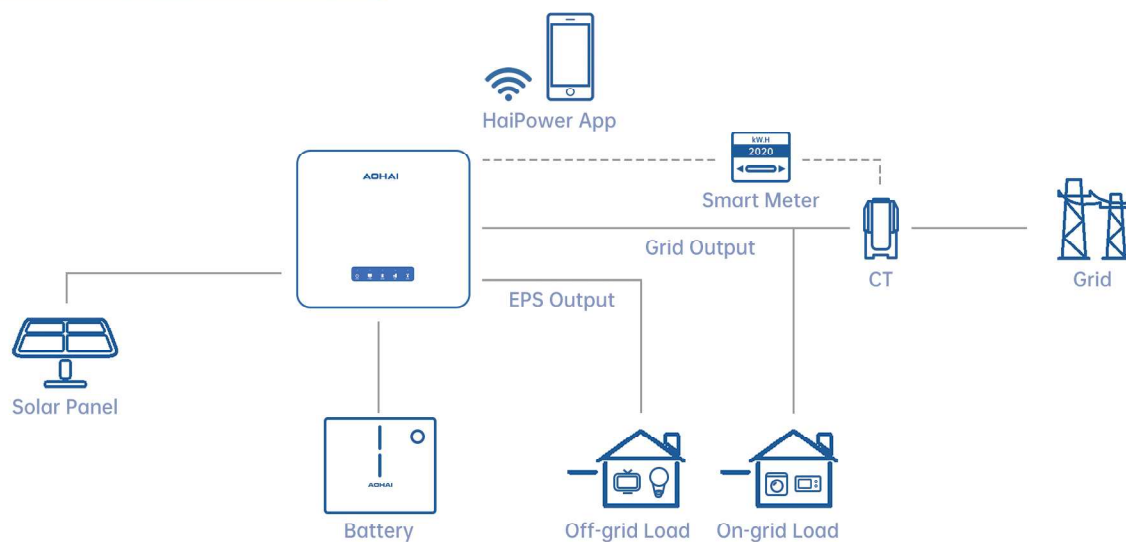
Wall-mounted and floor-standing both available



LED Indicator

Real-time feedback on SOC and battery status

Energy Storage Solution



Specifications

Model

AS-5.12LB-GL1

AS-10.24LB-GL1

Technical Data

Nominal Voltage	51.2V	51.2V
Rated Capacity	100Ah	200Ah
Energy	5120Wh	10240Wh
Battery Impedance	< 50 mΩ	< 50 mΩ
Charging Cut-off Voltage	56.16 V	56.16 V
Discharge Cut-off Voltage	45.6 V	45.6V
Recommend Charge Current	0.2C 20A	0.2C 40A
Max. Charge Current	0°C ~ 15°C: 20A; 15°C ~ 45°C: 50A	0°C ~ 15°C: 40A; 15°C ~ 45°C: 100A
Max. Continuous Discharge Current	100A, -20°C~60°C ; 65±20%RH	200A, -20°C~60°C ; 65±20%RH

Battery Parameter

Operating Temperature Range	-20~60°C	-20~60°C
Storage Environment (50% state of charge)	20°C ~ 45°C in three months; 25±3°C over three months; Humidity: 65±20%RH	20°C ~ 45°C in three months; 25±3°C over three months; Humidity: 65±20%RH
Environment	Indoor	Indoor
Installation	Wall mounted/Floor standing	Wall mounted/Floor standing
Cell Technology	Lithium iron phosphate (LiFePO4)	Lithium iron phosphate (LiFePO4)
Life Cycle	6000 times @80%DOD	6000 times @80%DOD
Cooling	Natural convection	Natural convection
Protection Rating	IP65	IP65
Certificate	CB, IEC62619, UL1973, UKCA, CE-EMC, CE-GPDS, EN62619; UN38.3, MSDS	CB, IEC62619, UL1973, UKCA, CE-EMC, CE-GPDS, EN62619; UN38.3, MSDS
Communication	RS232, CAN, RS485	RS232, CAN, RS485

Mechanical Data

Dimension (W*H*D)	520*470*141.5mm	800*590*142mm
Battery Net Weight	48.45kg	98kg
Battery Gross Weight	54.15kg	106kg



AS-6.5~9.8LB-GA1

Low Voltage Battery 「6.5/9.8kWh」

Features



Stable Performance

Lithium iron phosphate (LiFePO4) battery



Longer Lifespan

6000 cycles to ensure longevity and reliability



Optional Installation

Wall-mounted and floor-standing both available



Flexible Expansion

Max. 16pcs in parallel for capacity expansion



Smart Management

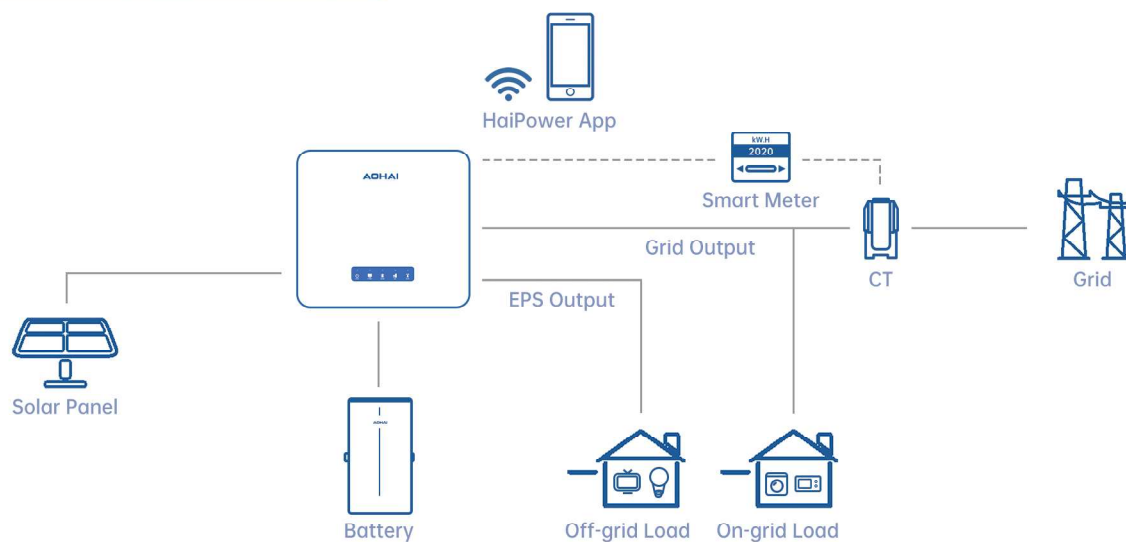
Built-in BMS to monitor operation and optimize performance timely



LED Indicator

Real-time feedback on SOC and battery status

Energy Storage Solution



Specifications

Model

AS-6.5LB-GA1

AS-9.8LB-GA1

Technical Data

Total Capacity/ Energy	128Ah/6.5kWh	192Ah/9.8kWh
Rated/Usable Capacity/Energy	118Ah/6.0kWh	177Ah/9.0kWh
Nominal Voltage	51.2 V	51.2 V
Operating Voltage	44.8~57.6V	44.8~57.6V
Max.Continuous Charging Current	-10°C≤T<0°C: 21.3A 0°C≤T<5°C: 32A 5°C≤T<15°C: 64A 15°C≤T<45°C: 104.2A 45°C≤T<50°C: 64A 50°C≤T<55°C: 32A	-10°C≤T<0°C: 32A 0°C≤T<5°C: 48A 5°C≤T<15°C: 96A 15°C≤T<45°C: 104.2A 45°C≤T<50°C: 96A 50°C≤T<55°C: 48A
Max. Continuous Discharging Current	-10°C≤T<0°C: 21.3A 0°C≤T<45°C: 104.2A 45°C≤T<50°C: 85.3A 50°C≤T<55°C: 32A	-10°C≤T<0°C: 32A 0°C≤T<50°C: 104.2A 50°C≤T<55°C: 48A
Peak Charging/Discharging Current	125A/3s	125A/3s
Max. Charging/Discharging Power	5kW (15°C~45°C)	5kW (0°C ~45°C)
Peak Charging/Discharging Power	6.9kW/3s (SOC≥20%, 25°C)	6.9kW/3s (SOC≥20%, 25°C)

Battery Parameter

Operating Ambient Temperature	-10°C~50°C	-10°C~50°C
Recommended Operating Temperature	15°C~30°C	15°C~30°C
Storage Temperature	Temperature: -20°C~+ 45°C, 6 months; -30°C~ -20°C, 45°C~ 60°C, 7 days; (for shipping state)	Temperature: -20°C~+ 45°C, 6 months; -30°C~ -20°C, 45°C~ 60°C, 7 days; (for shipping state)
Storage Humidity	Humidity: 5%-95%RH Within 6 months after each charge	Humidity: 5%-95%RH Within 6 months after each charge
RTE	94%, 0.2C charge/discharge 25°C	94%, 0.2C charge/discharge 25°C
DOD	94.50%	94.50%
Calendar Life (25°C)	10 years	10 years
Cycle life	≥6000cycle/60%SOH (94.5%DOD, 25°C)	≥6000cycle/60%SOH (94.5%DOD, 25°C)
Cooling	Natural cooling	Natural cooling
Ingress Protection	IP55	IP55
Max.Operation Altitude	≤2000m	≤2000m
Certificate	IEC62619, IEC62619/CE, UN38.3+PI965 (Sea), RoHS, REACH	IEC62619, IEC62619/CE, UN38.3+PI965 (Sea), RoHS, REACH
Communication	CAN, RS485	CAN, RS485
Max. Parallel Connection	16	8

Mechanical Data

Dimension (W*D*H)	475*133*745mm	475*133*1180mm
Weight	56kg±1kg	85kg±1kg
Installation	Wall-mounted/floor standing	Wall-mounted/floor standing



AS-5.12~30.72LD-GL1

Low Voltage Battery

「5.12/10.24/15.36
/20.48/25.6/30.72kWh」

Features



Stable Performance

Lithium iron phosphate (LiFePO4) battery



Flexible Expansion

Max. 6 layers in series to meet diverse energy needs



Higher Extendibility

Multiple interfaces ready for further function extension



Modular & Stackable Design

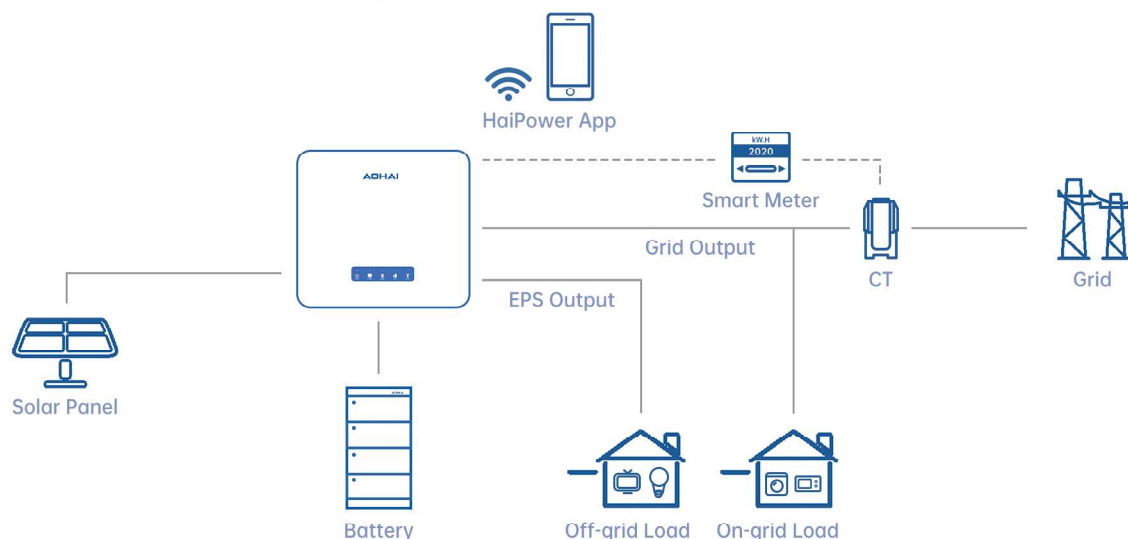
Easy for capacity expansion and transportation



Superior Protection

IP65 batteries ideal for demanding environments

Energy Storage Solution



Specifications

Model

AS-5.12LD-GL1

AS-10.24LD-GL1

AS-15.36LD-GL1

AS-20.48LD-GL1

AS-25.6LD-GL1

AS-30.72LD-GL1

Technical Data

Number of layers	1 layer	2 layers	3 layers	4 layers	5 layers	6 layers
Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
Operating Voltage Range	43.2V~56.16V					
Recommend Charge Current	50A					
Max.Continuous Charge Current	100A					
Max.Continuous Discharge Current	100A					

Battery Parameter

Operating Temperature Range	-20°C ~ 55°C					
Environment	Indoor					
Humidity	5% ~ 95%					
Cooling	Natural cooling					
Cell Technology	Lithium-iron phosphate (LiFePO4)					
Life Cycle	6000 times @80%DOD					
Protection Rating	IP65					
Certificate	CB, IEC62619, UL1973, UL9540A, UKCA, CE-EMC, CE-GPSP, EN62619 ; UN38.3, MSDS					
Display	LED display					
Communication	RS485 / CAN					

Mechanical Data

Dimension (W*H*D)	600*440*210mm	600*740*210mm	600*1040*210mm	600*1340*210mm	600*1640*210mm	600*1940*210mm
Weight	71kg	119kg	167kg	215kg	263kg	311kg

Single Module Specification

Dimension (W*H*D)	5.12kWh					
Battery Net Weight	Battery Module: 600*300*210mm					
Battery Gross Weight	48kg					

AS-7.68~25.6HD-GL1

High Voltage Battery

「7.68/10.24/12.8/15.36/
17.92/20.48/23.04/25.6kWh」



Features



Stable Performance

Lithium iron phosphate (LiFePO4) battery



Flexible Expansion

Max. 10 layers in series for capacity expansion



Higher Extendibility

Multiple interfaces ready for further function extension



Modular & Stackable Design

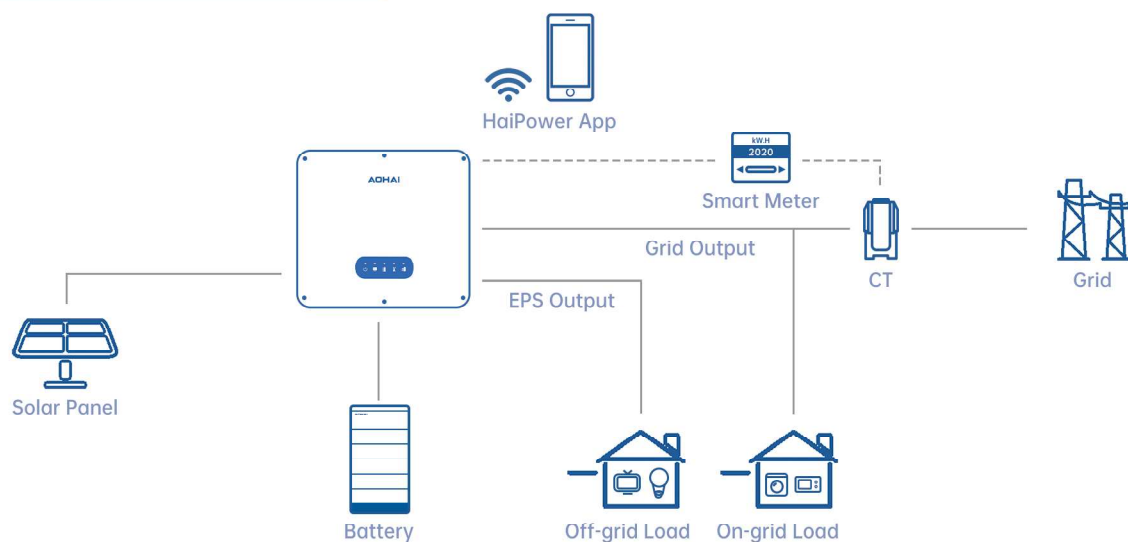
Easy for capacity expansion and transportation



Superior Protection

IP65 batteries ideal for demanding environments

Energy Storage Solution



Specifications

Model

AS-7.68HD-GL1

AS-10.24HD-GL1

AS-12.8HD-GL1

AS-15.36HD-GL1

AS-17.92HD-GL1

AS-20.48HD-GL

AS-23.04HD-GL1

AS-23.04HD-GL1

- Technical Data

Number of layers	3 layers	4 layers	5 layers	6 layers	7 layers	8 layers	9 layers	10 layers
Energy	7.68kWh	10.24kWh	12.8kWh	15.36kWh	17.92kWh	20.48kWh	23.04kWh	25.6kWh
Recommend Charge Current	25A							
Max. Continuous Charge Current	50A							
Max. Continuous Discharge Current	50A							
Peak Current	100A							

- Battery Parameter

Charge Temperature	0°C ~ 55°C
Discharge Temperature	-20°C ~ 60°C
Environment	Indoor
Humidity	5% ~ 95%
Cooling	Natural convection
Cell Technology	Lithium-iron phosphate (LiFePO4)
Life Cycle	6000 times @80%DOD
Protection Rating	IP65
Certificate	CB, IEC62619, CE-EMC, CE-GSPD, UKCA, UL1973, UL9540A, IEC/EN62040; UN38.3, MSDS
Display	LED display
Communication	RS485 / CAN

- Mechanical Data

Dimension (W*H*D)	600*870*210mm	600*1030*210mm	600*1190*210mm	600*1350*210mm	600*1510*210mm	600*1670*210mm	600*1830*210mm	600*1990*210mm
Weight	102.5kg	129kg	155.5kg	182kg	208.5kg	235kg	261.5kg	288kg

- Single Module Specification

Module	2.56kWh
Dimension (W*H*D)	High Voltage Box: 600*250*210mm; Battery Module: 600*160*210mm
Weight	High Voltage Box: 14 kg; Battery Box: 28kg

AOHAI

AS-6.68~13.37HD-GA1

High Voltage Battery 「6.68/10.02/13.37kWh」

Features



Stable Performance

Lithium iron phosphate (LiFePO4) battery



Longer Lifespan

6000 cycles to ensure longevity and reliability



Modular & Stackable Design

Easy for capacity expansion and transportation



Flexible Expansion

Max. 4 layers in series for capacity expansion



Smart Management

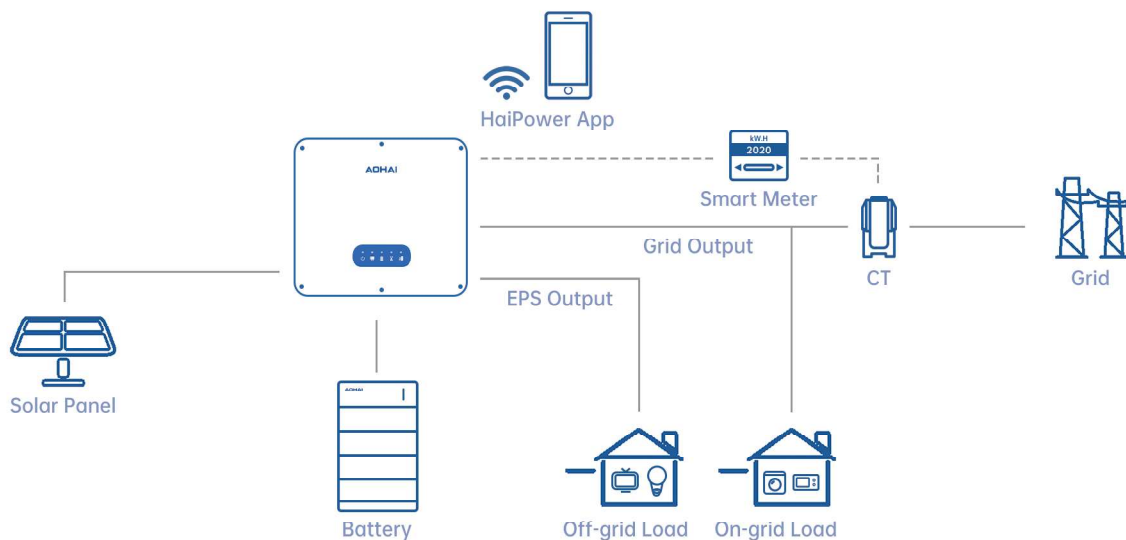
Built-in BMS to monitor operation and optimize performance timely



Superior Protection

IP65 batteries ideal for demanding environments

Energy Storage Solution



Specifications

Model

AS-6.68HD-GA1

AS-10.03HD-GA1

AS-13.37HD-GA1

Technical Data

Number of Layers	2 layers	3 layers	4 layers
Energy	6.68kWh	10.03kWh	13.37kWh
Nominal Voltage	204.8V	307.2V	409.6V
Output Voltage Range	179~230V	268~345V	358~460V
Operating Voltage Range	185~227V	278~340V	371~454V
Charge/Discharge Power	5.94kW	8.91kW	11.88kW
Peak Charge/Discharge Power	8.45kW	12.68kW	16.91kW
Max. Charge Current		-20°C ≤ T < -10°C: 2.5 A -10°C ≤ T < 5°C: 8 A 5°C ≤ T < 15°C: 16 A 15°C ≤ T < 45°C: 32 A 45°C ≤ T < 50°C: 21.5 A 50°C ≤ T < 55°C: 8 A	
Max. Discharge Current		-20°C ≤ T < 0°C: 16 A 0°C ≤ T < 45°C: 32 A 45°C ≤ T < 50°C: 21.5 A 50°C ≤ T < 55°C: 8 A	
Peak Charge/Discharge Current (@25°C.5S)		37.76A/5s	

Battery Parameter

Operating Ambient Temperature	-20°C~55°C		
Optimal Operating Temperature	15°C~30°C		
Operating Ambient Humidity	5%~95%		
Environment	Indoor		
Cooling	Natural cooling		
Cell Technology	Lithium-iron phosphate (LiFePO4)		
Life Cycle	6000cycle @SOH≥60%		
Ingress Protection	IP65		
Altitude	≤2000m		
Certificate	EC62619:2022 & CE & VDE 2510-50; EN61000-6-1 & EN61000-6-3; UN38.3+PI965; Certification for Safe Transport of Goods;		
Module Series Connection/Module	2S~4S		
Communication	CAN/RS485		

Mechanical Data

System dimension (W*D*H)	780*176*860mm	780*176*1110mm	780*176*1360mm
System weight	86.6kg	120.5kg	154.4kg

Single Module Specification

Module	3.40kWh		
Dimension (W*H*D)	High Voltage Box: 712*300*176mm; Battery Module: 712*250*176mm		
Weight	High Voltage Box: 14kg; Battery Module: 33.5kg		

AHW-6~10KTHD-G1

All-in-one ESS

「6/7/8/10kW | 7.68~25.6kWh」

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

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

100%

Unbalanced Output

100% three-phase unbalanced output

10ms

Seamless Switchover

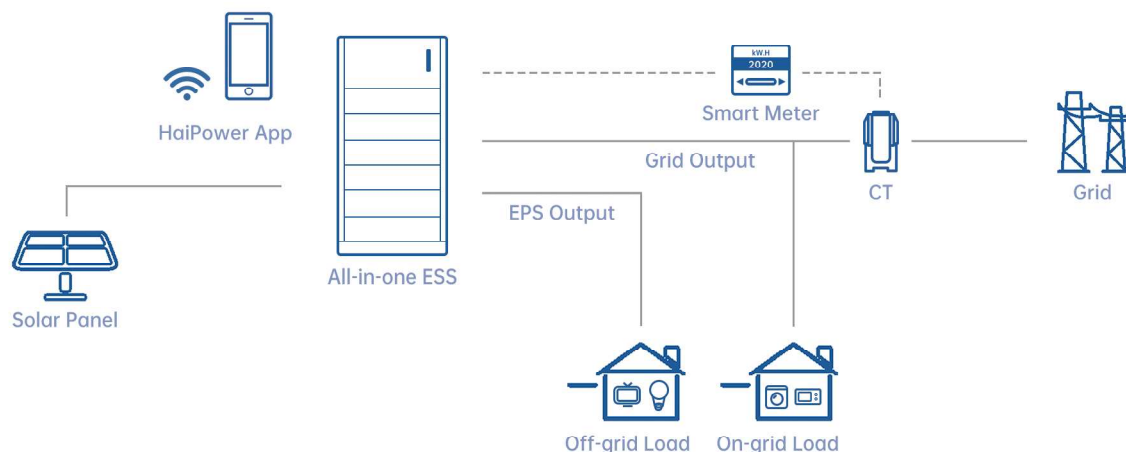
UPS level switching time < 10ms

25A

Max. Charge/Discharge Current

Battery charge/discharge current up to 25A

Energy Storage Solution



Specifications

Model

AHW-6~10KTHD-G1

System Parameter

Inverter Module	AHW-6~10KTHD-G1							
Number of Inverter Modules	1							
Battery Module	AS-2.56HD-GL1							
Number of Battery Modules	3	4	5	6	7	8	9	10
Battery Energy	7.68kWh	10.24kWh	12.8kWh	15.36kWh	17.92kWh	20.48kWh	23.04kWh	25.6kWh
Max. Charge/Discharge Current	25A							
Ingress Protection	IP65							
Operating Temperature Range	-10°C ~ 45°C							
Relative Humidity	5% ~ 95%							
Installation	Floor standing							
Noise Emission	< 35dB							
Cooling Method	Natural cooling							
Altitude	≤ 3000m (> 2000, derating)							
Dimension of the System (W*H*D)	650*1320*240mm	650*1480*240mm	650*1640*240mm	650*1320*240mm 650*570*240mm	650*1480*240mm 650*570*240mm	650*1640*240mm 650*570*240mm	650*1640*240mm 650*730*240mm	650*1640*240mm 650*890*240mm
Dimension of High Voltage Box (W*H*D)	650*250*240mm							
Dimension of Base (W*H*D)	650*90*240mm							
Display	LED&App							
Communication	RS485/CAN/USB/WIFI/GPRS							
Product Ordering Model	[Inverter:AHW-6~10KTHD-G1] + N*[AS-2.56HD-GL1] + High Voltage Box + Base							

Inverter Module

AHW-6KTHD-G1

AHW-7KTHD-G1

AHW-8KTHD-G1

AHW-10KTHD-G1

Solar Input Data

Max. PV Input Power	9000W	10500W	12000W	15000W
Max. Input Voltage	1000V			
Start-up Voltage	120V			
Nominal Input Voltage	600V			
MPPT Operating Voltage Range	120V~1000V			
Max. Input Current per MPPT	16A/16A			
Max. Short Circuit Current per MPPT	20A/20A			
Number of MPPT	2			
Number of Strings per MPPT	1/1			

AC Input Data

Nominal Input Voltage	230/400V, 3L/N/PE			
Input Voltage Range	310V~476V			
Max. AC Current	9.1A	10.6A	12.2A	15.2A
Max. Apparent Power	6000VA	7000VA	8000VA	10000VA
AC Frequency/Range	50/45~55Hz, 60/55~65Hz			

Battery Data

Battery Voltage Range	100V~600V			
Max. Charge/Discharge Current	25A			
Max. Charge/Discharge Power	6000W	7000W	8000W	10000W
Number of Battery Input	1			

AC Output Data (On-Grid)

Nominal Output Power	6000W	7000W	8000W	10000W
Max. Apparent Output Power	6000VA	7000VA	8000VA	10000VA
Nominal Output Voltage	230/400V, 3L/N/PE			
Nominal Grid Frequency/Range	50/45~55Hz, 60/55~65Hz			
Max. Output Current	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	6000W	7000W	8000W	10000W
Max. Apparent Power	6000VA	7000VA	8000VA	10000VA
Nominal AC Voltage	230/400V, 3L/N/PE			
Nominal Grid Frequency	50/60Hz			
Nominal Output Current	9.1A	10.6A	12.2A	15.2A
Switch Time	< 10ms			
THDv (@linear load)	< 3%			

Mechanical Data

Dimension (W*H*D)	650*500*240mm
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Battery Module

AS-2.56HD-GL1

Single Battery Module Spec

Battery Type	LFP
Battery Module Energy	2.56kWh
Battery Module Voltage	51.2V
Dimension (W*H*D)	650*160*240mm

*If purchasing six or more battery modules, an additional base needs to be added.



EA7000W/EA011KW/ EA022KW

EV Charger 「7/11/22kW」

Features



Higher Compatibility

Universally compatible with most car brands and models



Multiple Safeguards

Multi protections to ensure safe charging



Eco-Friendly Design

Beetle-inspired charger recognized by K-Design Award



Smart Charging

Four charging methods to power up EVs with unmatched flexibility



Vibrant Hues

Nine colorful options to match any decor



Outdoor Durability

IP66 ideal for demanding environments

Specifications

Model	EA7000W	EA011KW	EA022KW
• Technical Data			
Power	7kW	11kW	22kW
Operating Voltage	230Vac	400Vac	400Vac
Current	32A	16A	32A
Current Gear		App settings	
Display		LED display	
Communication		WiFi/Bluetooth	
Cable Length		5m	
Charging Mode	Plug and Charge/Swipe Card/Bluetooth Key/Scheduled Charging		
Operating Temperature		-20°C~55°C	
Ingress Protection		IP66	
Installation		Wall-mounted/Pile-mounted (optional)	
Connection		Case C	
Protection	Over Current/Over Voltage/Under Voltage/Over Temperature/Leakage Protection/Lightning Protection/Grounding, etc.		
Certificate		CE/UKCA	



Black



Gray



Blue



Red



Green



Pink



Purple



Silver



White

POWER YOUR WAY

AOHAI



Shenzhen Aohai Digital Power Co.,Ltd

📍 Company Address: Room 2501, Building 1, Huide Building, Minzhi Street, Longhua District, Shenzhen, China

Factory Address: No. 27 Shaxin Road, Tangxia Town, Dongguan, China

✉ contact@aohaiglobal.com