

AOHAI



AOHAI DIGITAL POWER

Residential Energy Storage Solutions

www.digitalpoweraohai.com

ABOUT US

Founded in 2004, Aohai Technology is an efficient energy solution provider and a global manufacturer focusing on Consumer Electronics, Electronic Control for EVs, Digital Power.

In 2024, Aohai has ranked first with a share of 18% in global smart phone charger market, achieving robust partnership with world-famous brands, such as Google, Amazon, LG, Xiaomi, VIVO, OPPO, Transsion.

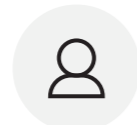
With a strong commitment to technological advancement and environmental stewardship, Aohai Digital Power focuses on providing reliable energy storage solutions for global home owners with a robust product portfolio encompassing Inverters, Energy Storage Batteries, All-in-One ESS, and EV Chargers. We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



TOP 1 Global
Phone Charger



2004
Established



10,000+
Employees



6
R&D Centers



7 Global
Manufacturing Bases



8
Global Offices



Hybrid Inverter



AH-3-6KSL-G2
Single-phase | 3-6kW



HSA-8-12K1P-BL
Single-phase | 8-12kW



AH-4-10KTH-G1
Three-phase | 4-10kW



HUA-8-15K3P-BL
Three-phase | 8-15kW



HTA-15-30K3P-BH
Three-phase | 15-30kW

Off-Grid Inverter



FSF-2K1P-BL
2kW



FSF-2K1P-BL-PRO
2kW



FSA-3-4.2K1P-BL
3-4.2kW



FSD-3-4.2K1P-BL
3-4.2kW



FSD-3-4.2K1P-BL-G3
3-4.2kW



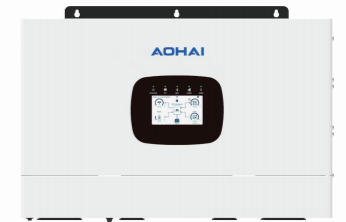
AO-5-6KSL-G2
5-6kW



AO-5-6KSL-G3
5-6kW



FSC-8-12K1P-BL
8-12kW



FSC-8-12K1P-BL-G3
8-12kW

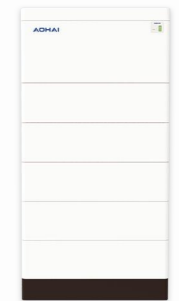
Battery System



AS-5.12-10.24LB-GL1
LV | 5.12-10.24kWh

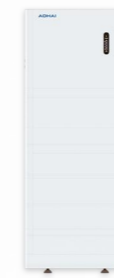


AS-5.12-30.72LD-GL1
LV | 5.12-30.72kWh



AS-7.68-25.6HD-GL1
HV | 7.68-25.6kWh

Energy Storage System



AHW-6-10KTHD-G1
6-10kW | 7.68-25.6kWh



EA7000W / EA011KW / EA022KW
7-22kW

Data Logger



WiFi-LAN 4G-U / WiFi-U

CERTIFICATE AUTHORITY





Single-phase Hybrid Inverter

AH-3~6KSL-G2

「3/3.6/4/4.6/5/6kW」

Features

MPPT Dual MPPTs
Dual MPPTs with per MPPT current of 16A

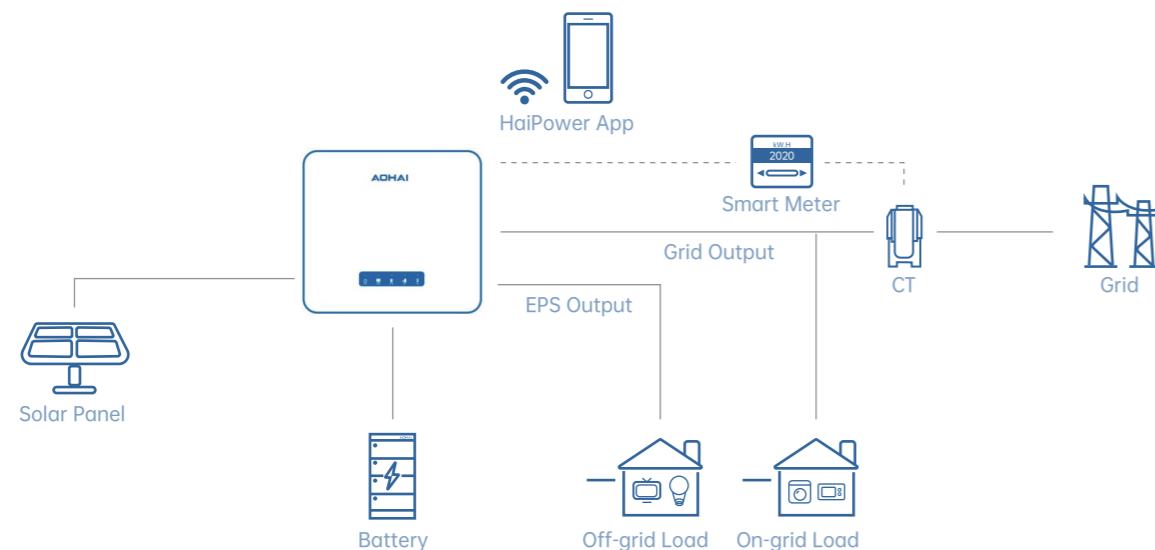
Overload Capacity
1.2 times the rated power for 10s

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

AC Coupling
Allow connection to grid-tied inverters for capacity expansion

Silent Performance
Fanless design with noise 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
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)				550mm*500mm*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				MC4		
PV Connector				LED & APP		
Battery Connector				Connector		
AC Connector				Connector		

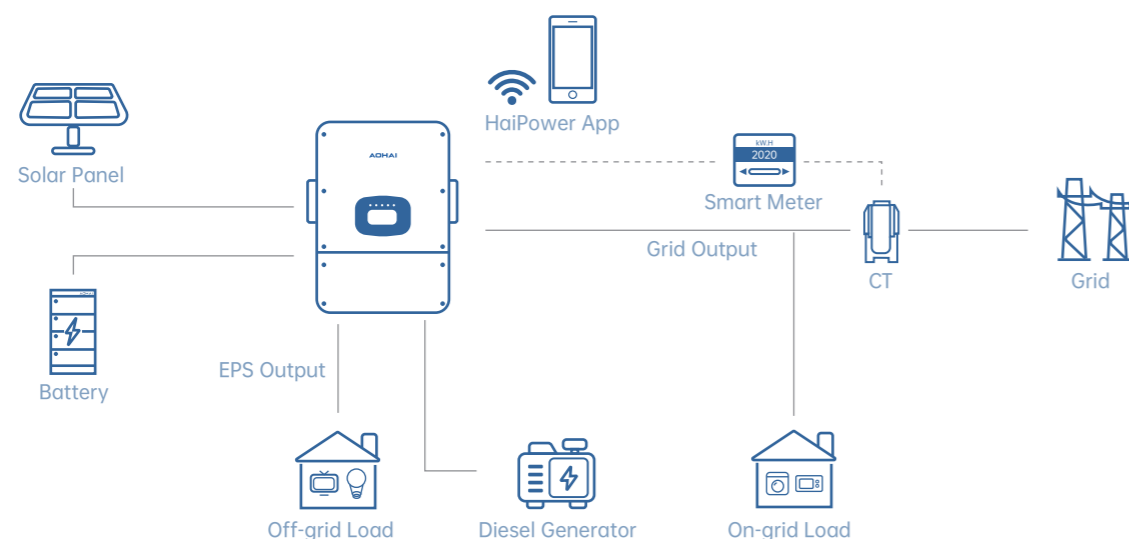


Single-Phase Hybrid Inverter
HSA-8~12K1P-BL
 「8/10/12kW」

Features

- PV Oversizing**
Up to 200% PV accessing, 180% PV oversizing
- Parallel Connection**
Support parallel connection up to 9 units
- High-Temperature Adaptability**
Allow full-power input and output under high temperature
- Overload Capacity**
2 times the rated power for 10s
- Three MPPTs**
Three MPPTs for efficient power tracking
- Seamless Switchover**
UPS-level switching time: 4ms
- Touch Screen**
4.3" 800 x 480 interactive display without physical keys
- Flexible Connection**
 - GEN port for generator input
 - Dual AC outputs for smart load management
 - AC coupling function

Energy Storage Solution



Specifications

Model	HSA-8K1P-BL	HSA-10K1P-BL	HSA-12K1P-BL
Technical Data			
Recommended Max. PV Array Size	16000Wp	24000Wp	24000Wp
Max. PV Input Power	12000W	18000W	18000W
Max. Input Voltage	500V	500V	500V
Start-up Voltage	120V	120V	120V
Rated Input Voltage	370V	370V	370V
MPPT Operating Voltage Range	120~425V	120~425V	120~425V
MPPT Voltage Range (full load)	222~425V	222~425V	222~425V
Max. Input Current per MPPT	27+27A	27+27+27A	27+27+27A
Max. Short Circuit Current per MPPT	44+44A	44+44+44A	44+44+44A
Number of MPPTs	2	3	3
Number of Strings per MPPT	2+2	2+2+2	2+2+2
Max. Inverter Backfeed Current to The Array (A)	0	0	0
Battery Data			
Battery Type	Lead-acid or Lithium-ion		
Rated Battery Voltage	48V		
Battery Voltage Range	40V~60V		
Max. Charge / Discharge Current	190A	220A	250A
Max. Charge / Discharge Power	8000W	10000W	12000W
Battery Communication	CAN / RS485		
Number of Battery Input	1		
AC Input / Output Data (Grid, Load & Generator)			
Rated AC Input / Output Active Power	8000W	10000W	12000W
Max. AC Input / Output Apparent Power	8800VA	11000VA	13200VA
Peak Apparent Power (off-grid)	2 times of rated power, 10s		
Rated AC Input / Output Current	36.4A / 34.8A / 33.4A	45.5A / 43.5A / 41.7A	54.6A / 52.2A / 50A
Max. AC Input/Output Current	38.3A	47.9A	57.4A
Max. Continuous AC Passthrough (grid to load)	60A		
Max. Output Fault Current	100A		
Max. Output Over Current Protection	150A		
Rated Input / Output Voltage	220V / 230V / 240V		
Input / Output Voltage Range (V)	0.85Un~1.1Un		
Grid Connection Form	L+N+PE		
Rated Grid Frequency / Range	50 / 45~55Hz, 60 / 55~65Hz		
Power Factor	0.8 leading~0.8 lagging		
THDi (nominal power)	<3%		
DC Injection Current	<0.5%In		
Switch time (Typ)	4ms		
Efficiency			
Max. Efficiency	97.60%		
European Efficiency	96.50%		
MPPT Efficiency	>99.9%		
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	TYPE II (DC), TYPE II (AC)		
AFCI Protection	Optional		
DC Switch	yes		
Residual Current Monitoring	yes		
Grid Monitoring	yes		
General Data			
Dimension (W*H*D)	420mm*680mm*252.5mm (Excluding connectors)		
Weight	36kg	37kg	37kg
Relative Humidity	0~100%		
Operating Temperature Range	-25°C to +60°C, >45 Derating		
Storage Temperature	-45°C to +85°C		
Noise Emission	<45dB		
Altitude	2000m		
Cooling Method	Intelligent Air Cooling		
Ingress Protection	IP66		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Topology	Non-Isolated		
Protective Class	I		
Communication Interface	RS485 / CAN / Bluetooth / WIFI, LAN / 4G / GPRS (optional)		
Power Grid Side Energy Detection Method	1CT, Meter (optional)		
Display	LCD & APP		
Standby / Internal Consumption	<25W (night)		
PV Connector	MC4 compatible connector		
Battery Connector	Connector		
AC Connector	Connector		

Three-phase Hybrid Inverter

AH-4~10KTH-G1

「4/5/6/7/8/10kW」



Features

MPPT 2 MPPTs
Dual MPPTs with per MPPT current of up to 16A

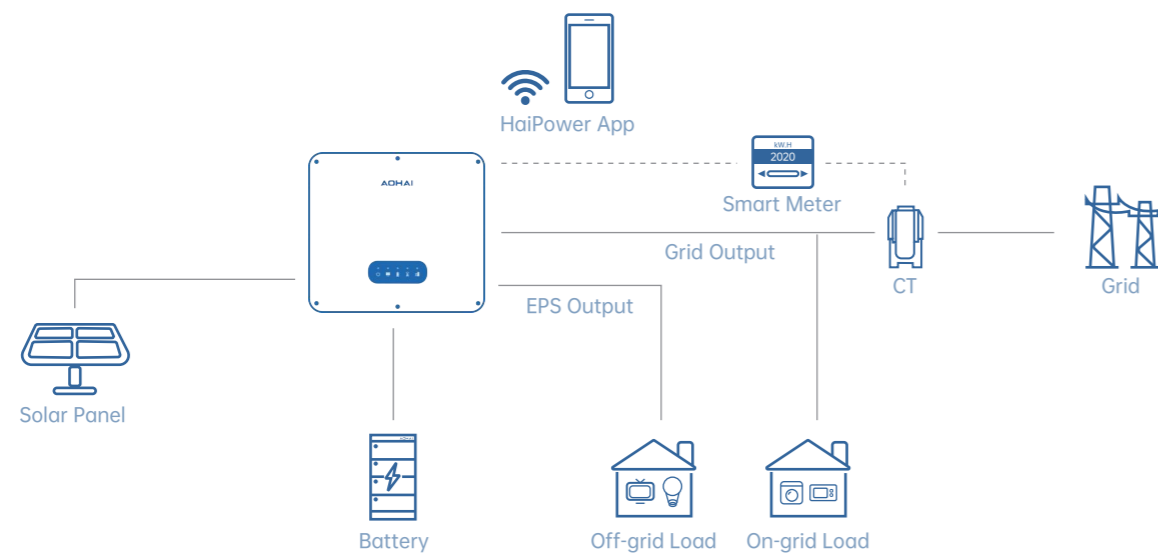
AC Coupling
Allow connection to grid-tied inverters for capacity expansion

10 Seamless Switchover
UPS-level switching time: 10ms

Unbalanced Output
Support 100% unbalanced output of each phase

IP66 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					



Three-Phase Hybrid Inverter

HUA-8~15K3P-BL

「8/10/12/15kW」

Features

⚡ PV Oversizing

Up to 200% PV accessing, 160% PV oversizing

∞ Unbalanced Output

Support 150% three-phase unbalanced output to improve flexibility of power distribution

⊗ High-Power Density

A compact size for flexible installation and reduced transportation cost

🔊 Overload Capacity

Peak power able to reach 2 times the rated power for 10s in off-grid mode

⚡ Parallel Connection

Support parallel connection up to 9 units

🔋 Efficient Battery Charge / Discharge

Max. battery charge/discharge current of up to 290A

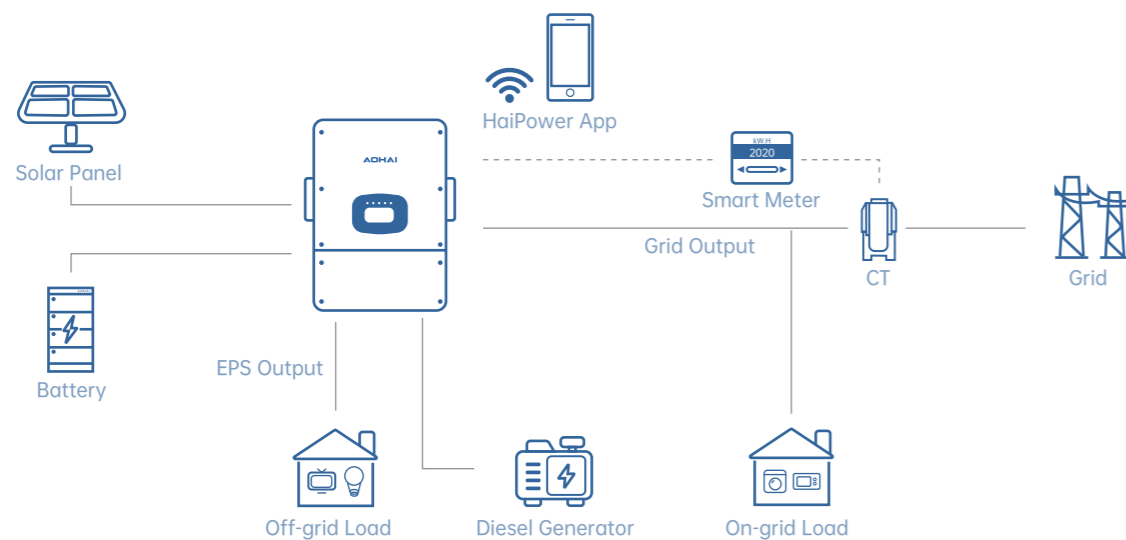
📱 Touch Screen

4.3" 800 x 480 interactive display without physical keys

🔗 Flexible Connection

- GEN port for generator input
- Dual AC outputs for smart load management
- AC coupling function

Energy Storage Solution



Specifications

Model	HUA-8K3P-BL	HUA-10K3P-BL	HUA-12K3P-BL	HUA-15K3P-BL
Solar Input Data				
Recommended Max. PV Array Size	16000Wp	20000Wp	24000Wp	30000Wp
Max. PV Input Power	12800W	16000W	19200W	24000W
Max. Input Voltage			800V	
Start-up Voltage			160V	
Nominal Input Voltage			550V	
MPPT Operating Voltage Range			160~650V	
MPPT Voltage Range (full load)	350~650V	350~650V	350~650V	400~650V
Max. Input Current per MPPT			27A+20A	
Max. Short Circuit Current per MPPT			40A+30A	
Number of MPPT			2	
Number of Strings per MPPT			2+1	
Max. Inverter Backfeed Current to The Array			0	
Battery Data				
Battery Type	Lead-acid or Lithium-ion			
Nominal Battery Voltage	48V			
Battery Voltage Range	40V~60V			
Max. Charge / Discharge Current	180A	220A	250A	290A
Max. Charge / Discharge Power	8000W / 8000W	10000W / 10000W	12000W / 12000W	15000W / 15000W
Battery Communication	Self-adaption to BMS			
Number of Battery Input	2 (in parallel)			
AC Input / Output Data (Grid, Load & Generator)				
Nominal AC Input/Output Active Power	8000W	10000W	12000W	15000W
Max. AC Input / Output Apparent Power	8800VA	11000VA	13200VA	16500VA
Peak Apparent Power (off-grid) (VA)	2 times of rated power, 10s			
Nominal AC Input / Output Current	12.2A / 11.6A / 11.2A	15.2A / 14.5A / 13.9A	18.2A / 17.4A / 16.7A	22.8A / 21.8A / 20.9A
Max. AC Input / Output Current	13.4A	16.7A	20A	25A
Max. Three-phase Unbalanced Output Current	18.2A	22.8A	27.3A	34.1A
Max. Continuous AC Passthrough (grid to load)	50A	50A	50A	50A
Max. Output Fault Current	26.8A	33.4A	40A	50A
Max. Output Over Current Protection			73.5A	
Nominal Input / Output Voltage	220V / 380V, 230V / 400V, 240V / 415V			
Input/Output Voltage Range (V)	0.85Un-1.1Un			
Grid Connection Form	3L+N+PE			
Nominal Grid Frequency / Range	50/45-55Hz, 60/55-65Hz			
Power Factor	-1 (0.8 leading to 0.8 lagging)			
THDi(nominal power)	< 3%			
DC Injection Current	< 0.5%In			
Switch time(ms)	4			
Efficiency				
Max. Efficiency	97.60%			
European Efficiency	97.0%			
MPPT Efficiency	>99.9%			
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			
AFCI Protection	Optional			
DC Switch	yes			
Residual Current Monitoring	yes			
Grid Monitoring	yes			
AC / DC Surge Protection	TYPE II (DC), TYPE II (AC)			
General Data				
Dimension (W*H*D)	450mm*660mm*240mm (Excluding connectors and brackets)			
Weight	39kg			
Relative Humidity	0~100%			
Operating Temperature Range	-40°C to +60°C, >45 Derating			
Storage Temperature	-45°C to +85°C			
Noise Emission	<55dB			
Altitude	3000m			
Cooling Method	Intelligent Air Cooling			
Ingress Protection	IP66			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Protective Class	I			
Standby / Internal Consumption	<25W (night)			
Topology	Non-Isolated			
Communication Interface	RS485 / CAN / Bluetooth / WIFI, LAN / 4G / GPRS (optional)			
Power Grid Side Energy Detection Method	3 CTs, Meter (optional)			
Display	LCD & APP			
PV Connector	MC4 compatible connector			
Battery Connector	Connector			
AC Connector	Connector			



Three-Phase Hybrid Inverter

HTA-15~30K3P-BH

「15/20/25/30kW」



Features

⚡ PV Oversizing

Up to 200% PV accessing, 160% PV oversizing

🔋 Powerful Battery Charge / Discharge

Max. continuous charge / discharge current of 80A.

⚡ Unbalanced Output

Support 110% three-phase unbalanced output to improve flexibility of power distribution.

📱 Touch Screen

4.3" 800 x 480 interactive display without physical keys.

☀️ Three MPPTs

Up to 3 MPPTs, max. 42A per MPPT, supporting up to 6 PV strings.

🔌 Parallel Connection

Support parallel connection up to 9 units.

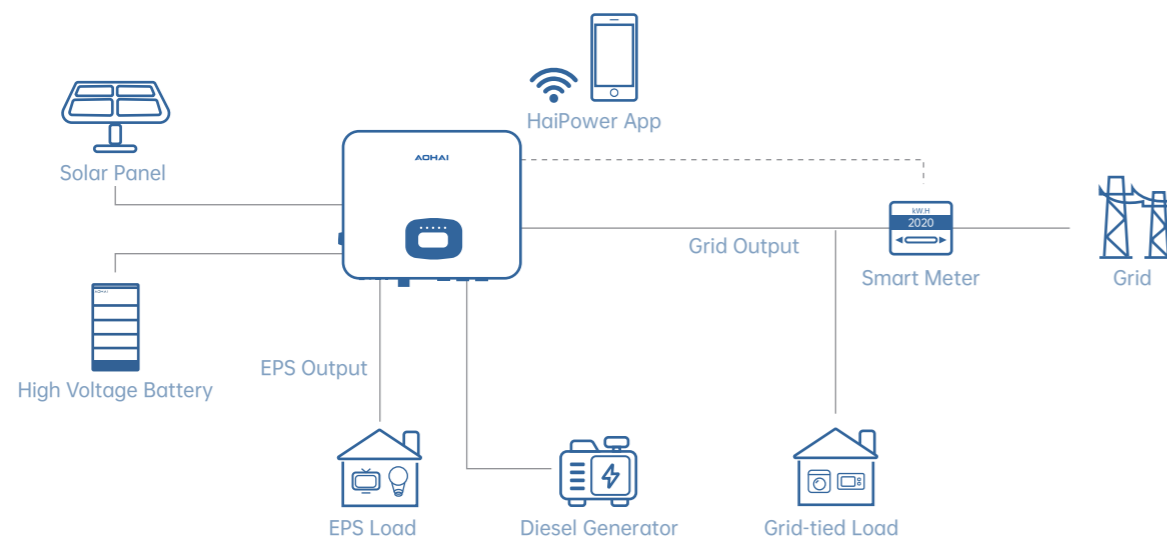
⚡ Overload Capacity

Peak power able to reach 1.5 times the rated power for 10s in off-grid mode.

🔌 Flexible Connections

- GEN port for generator input.
- Dual AC outputs for smart loads.
- AC coupling function.

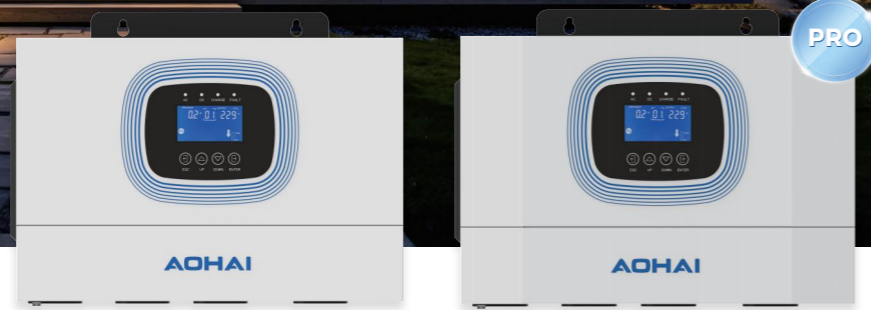
Energy Storage Solution



Specifications

Model	HTA-15K3P-BH	HTA-20K3P-BH	HTA-25K3P-BH	HTA-30K3P-BH
• Solar Input Data				
Recommended Max. PV Array Size	30000Wp	40000Wp	50000Wp	60000Wp
Max. PV Input Power	24000W	32000W	40000W	48000W
Max. Input Voltage			1000V	
Start-up Voltage			180V	
Nominal Input Voltage			650V	
MPPT Operating Voltage Range			150~960V	
MPPT Voltage Range (full load)	350~800V	420~800V	420~800V	450~800V
Max. Input Current per MPPT	42/42A	42/42A	42/42/42A	42/42/42A
Max. Short Circuit Current per MPPT	54/54A	54/54A	54/54/54A	54/54/54A
Number of MPPT	2	2	3	3
Number of Strings per MPPT	2/2	2/2	2/2/2	2/2/2
Max. Inverter Backfeed Current to The Array	0	0	0	0
• Battery Data				
Battery Type			Lithium-ion	
Nominal Battery Voltage			500V	
Battery Voltage Range			135~750V	
Max. Charge / Discharge Current	50A	50A	80A	80A
Max. Charge / Discharge Power	15000/16500W	20000/22000W	25000/27500W	30000/33000W
Battery Communication			CAN / RS485	
Number of Battery Input			1	
• AC Input / Output Data (Grid, Load & Generator)				
Nominal AC Input / Output Active Power	15000W	20000W	25000W	30000W
Max. AC Input / Output Apparent Power	16500VA	22000VA	27500VA	33000VA
Peak Apparent Power (off-grid)	1.5 times of rated power, 10s			
Nominal AC Input / Output Current	22.7/21.7/20.8A	30.3/29/27.8A	37.9/36.2/34.7A	45.5/43.5/41.7A
Max. AC Input / Output Current	25A	33.3A	41.7A	50A
Max. Three-phase Unbalanced Output Current	25A	33.3A	41.7A	50A
Max. Continuous AC Passthrough (grid to load)	50A	50A	80A	80A
Max. Output Fault Current	34.1A	45.5A	56.9A	68.3A
Max. Output Over Current Protection			112A	
Nominal Input / Output Voltage			220/380, 230/400, 240/415V	
Input / Output Voltage Range (V)			0.85Un-1.1Un	
Grid Connection Form			3L+N+PE	
Nominal Grid Frequency / Range			50/45-55Hz, 60/55-65Hz	
Power Factor			-1 (0.8 leading to 0.8 lagging)	
THDi (nominal power)			< 3%	
DC Injection Current			< 0.5%In	
Switch time			10ms	
• Efficiency				
Max. Efficiency			97.6%	
European Efficiency			97%	
MPPT Efficiency			> 99%	
• Protect				
PV Reverse Polarity Protection	yes		Over-current Protection	yes
String Monitoring Function	yes		AFCI Protection	Optional
Battery Reverse Protection	yes		DC Switch	yes
Anti-Islanding Protection	yes		Residual Current Monitoring	yes
Output Short Protection	yes		AC Overvoltage Protection	yes
Insulation Resistance Monitoring	yes		AC / DC Surge Protection	TYPE II(DC), TYPE II(AC)
• General Data				
Dimension (W*H*D)	595mm*495mm*248mm (Excluding connectors and brackets)			
Weight	35kg	35kg	37kg	37kg
Relative Humidity	0-100%			
Operating Temperature Range	-35°C to + 60°C, >45 Derating			
Storage Temperature	-45°C to +85°C			
Noise Emission	<55dB			
Altitude	3000m			
Cooling Method	Intelligent Air Cooling			
Ingress Protection	IP66			
Over Voltage Category	OVC II (DC), OVC III (AC)			
Protective Class	I			
Standby / Internal Consumption	<25W (night)			
Topology	Non-Isolated			
Communication Interface	RS485 / CAN / Bluetooth / WIFI, LAN / 4G / GPRS (optional)			
Power Grid Side Energy Detection Method	Meter, 3 CTs (optional)			
Display	LCD & APP			
PV Connector	MC4 compatible connector(Max.6mm ²)			
Battery Connector	Plug and play connector (Max.25mm ²)			
AC Connector	Plug and play connector (Max.16mm ²)			

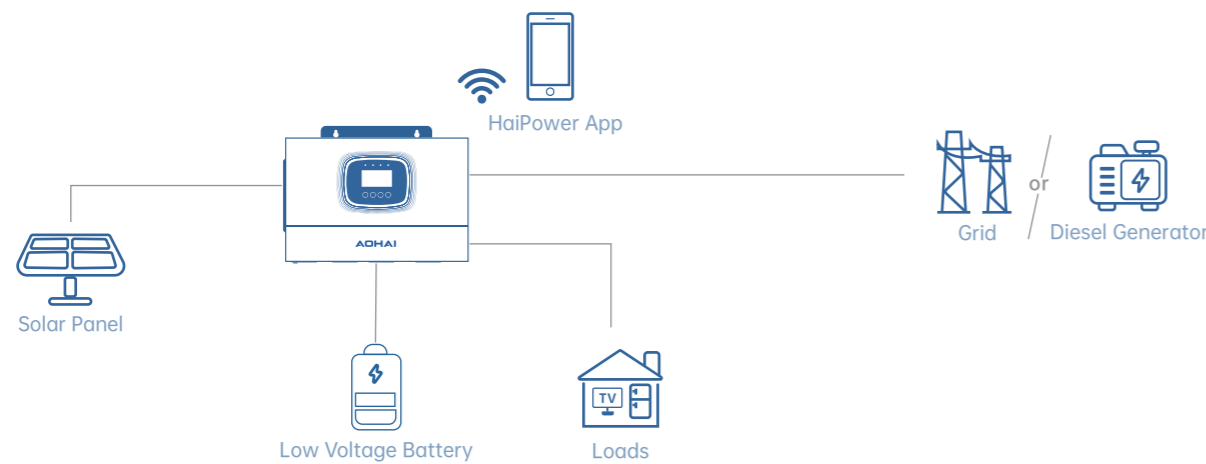
Off-Grid Inverter
FSF-2K1P-BL
FSF-2K1P-BL-PRO
「2kW」



Features

- Full Output in Battery Mode**
Deliver rated 2kW full power when battery voltage exceeds 12.5V
- High-Temperature Adaptability**
Maintain continuous full-power output at 40°C without power derating
- Overload Capacity**
Peak power to reach 2 times the rated power for 5s in off-grid mode
- High-Power Charge / Discharge**
Max. 150A charge current, max. 160A discharge current
- Communication Port & BMS Supported**
Equipped with CAN / RS485 / WiFi ports, enabling real-time BMS communication
- CT Connection Supported**
CT port equipped for CT connection to support anti-backflow function
- Seamless Switchover**
UPS-level switching time: 4ms
- Smart Monitoring**
Built-in WiFi module enables seamless connection with HaiPower App

Off-grid Solution



Specifications

Technical Data	FSF-2K1P-BL	FSF-2K1P-BL-PRO
Solar Input Data		
Max. PV Input Power	2600W	
Max. Input Voltage	400V	
Start-up Voltage	50V	
MPPT Voltage Range	30V~400V	
Max. Input Current per MPPT	16A	
Max. Short Circuit Current per MPPT	22A	
Number of MPPT	1	
AC Input Data (Grid&Generator)		
Nominal Input Voltage	230Vac	
Input Voltage Range	90~280V	
Max. Input Current	15A	
Nominal Input Power	3450W	
AC Frequency Range	50 / 60Hz (Auto sensing)	
Battery Data		
Battery Type	Li-Ion / Lead-acid	
Nominal Battery Voltage	12V	
Battery Voltage Range	10~15V	
Max. Discharge Current	100A	160A
Max. Charge Power	1000W	1600W
Li-Ion Battery Activation	Yes	
Li-Ion Battery Communication	CAN / RS485	
Max. Solar Charge Current	100A	150A
Max. AC Charge Current	100A	120A
Max. Charge Current (PV+AC)	100A	150A
Inverter Output Data		
Nominal Output Power	2000W with PV & Battery 1000W with Battery only	2000W
Peak Apparent AC Power	4000W	
Nominal AC Voltage	230V	
Nominal Grid Frequency	50 / 60Hz	
Voltage Waveform	Pure Sine wave	
Transfer Time	4ms	
Max. Output Current	8.7A	
Overload Protection	5s@130%-200% load; 30s@110%-130% load; 60s@102%-110% 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)	363*266*100mm	
Weight	4.3kg	
Relative Humidity	5%~95%	
Operating Temperature Range	-10°C~60°C	
Noise Emission	≤50dB	
Altitude	2000m	
Cooling Method	Fan Cooling	
Ingress Protection	IP21	
Characteristic		
Number of AC Output	1	
Display	Segment LCD&APP	
Communication Interface	RS485 / CAN / Wi-Fi	
Parallel Capability	/	

Off-Grid Inverter

FSA-3~4.2K1P-BL

「3/3.6/4/4.2kW」



Specifications

Model	FSA-3K1P-BL	FSA-3.6K1P-BL	FSA-4K1P-BL	FSA-4.2K1P-BL
Solar Input Data				
Max. PV Input Power	3300W	3960W	4400W	5200W
Max. Input Voltage	500V			
Start-up Voltage	90V			
MPPT Voltage Range	60V~450V			
Max. Input Current per MPPT	18A			
Max. Short Circuit Current per MPPT	23A			
Number of MPPT	1			
Battery Data				
Battery Type	Li-Ion / Lead-acid			
Nominal Battery Voltage	24V			
Battery Voltage Range	20~30V			
Max. Discharge Current	137A			
Max. Charge / Discharge Power	3000W		3300W	
Li-Ion Battery Activation	Yes			
Li-Ion Battery Communication	CAN / RS485			
Max. Solar Charge Current	120A			
Max. AC Charge Current	100A			
Max. Charge Current (PV+AC)	120A			
AC Input Data (Grid)				
Nominal Input Voltage	230Vac, L / N / PE			
Input Voltage Range	90~280V			
Max. Input Current	25A			
Nominal Input Power	5700W			
AC Frequency Range	50 / 60Hz (Auto sensing)			
Inverter Output Data				
Nominal Output Power	3000W	3600W with PV & battery 3000W with battery only	4000W with PV & battery 3300W with battery only	4200W with PV & battery 3300W with battery only
Peak Apparent AC Power	6000VA	7200VA	8000VA	8400VA
Nominal AC Voltage	230V			
Nominal Grid Frequency	50 / 60Hz			
Voltage Waveform	Pure Sine Wave			
Transfer Time (Typ)	4ms			
Nominal Output Current	13.1A	15.7A	17.4A	18.3A
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)	290mm*424mm*120mm			
Weight	7.1kg			
Relative Humidity	5%~95% (Non-condensing)			
Operating Temperature Range	-10°C~60°C			
Noise Emission	≤50dB			
Altitude	2000m			
Cooling Method	Fan Cooling			
Ingress Protection	IP20			
Characteristic				
Number of AC Output	2			
Display	LCD & APP			
Communication Interface	RS485 / USB / CAN / Wi-Fi			
Parallel Capability	9			

Features

High-Power Module Compatibility
Higher PV input current up to 18A

Enhanced Overload Capacity
2 times the rated power for 5 seconds

Parallel Connection
Parallel connection with up to 9 units

Smart Load Management
Dual AC outputs to power loads on demand priority

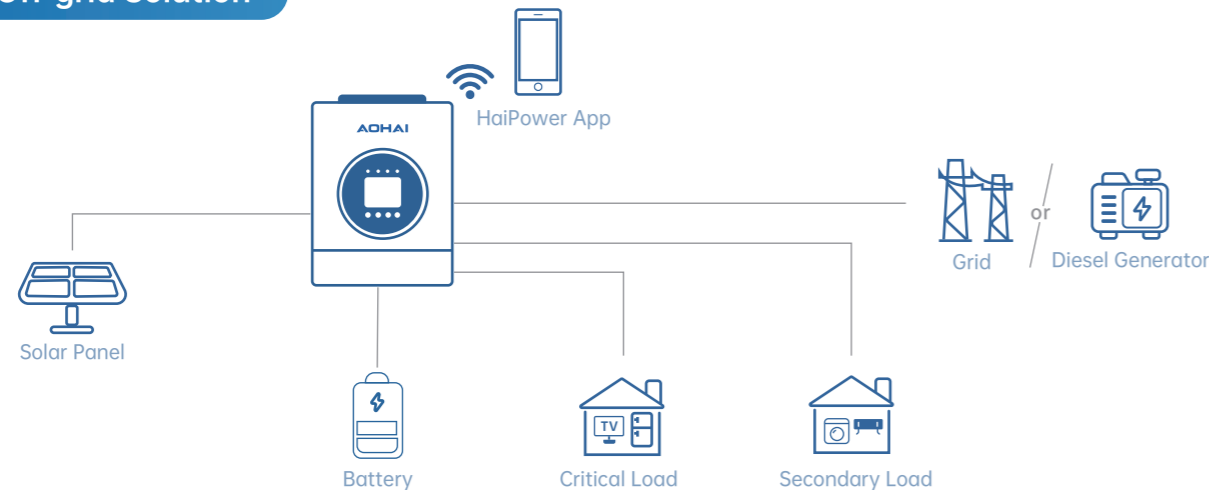
Seamless Switchover
UPS-level switching time: 4ms

Efficient Battery Charge/Discharge
Max. 120A charge current
Max. 137A discharge current

Remote Monitoring
Built-in WiFi module for HaiPower monitoring

Stylish Design
Larger screen with touch keys

Off-grid Solution



Off-Grid Inverter

FSD-3~4.2K1P-BL

「3/3.6/4/4.2kW」



Features

High-Power Module Compatibility
Higher PV input current up to 18A

Enhanced Overload Capacity
2 times the rated power for 5 seconds

Parallel Connection
Parallel connection with up to 9 units

Smart Load Management
Dual AC outputs to power loads on demand priority

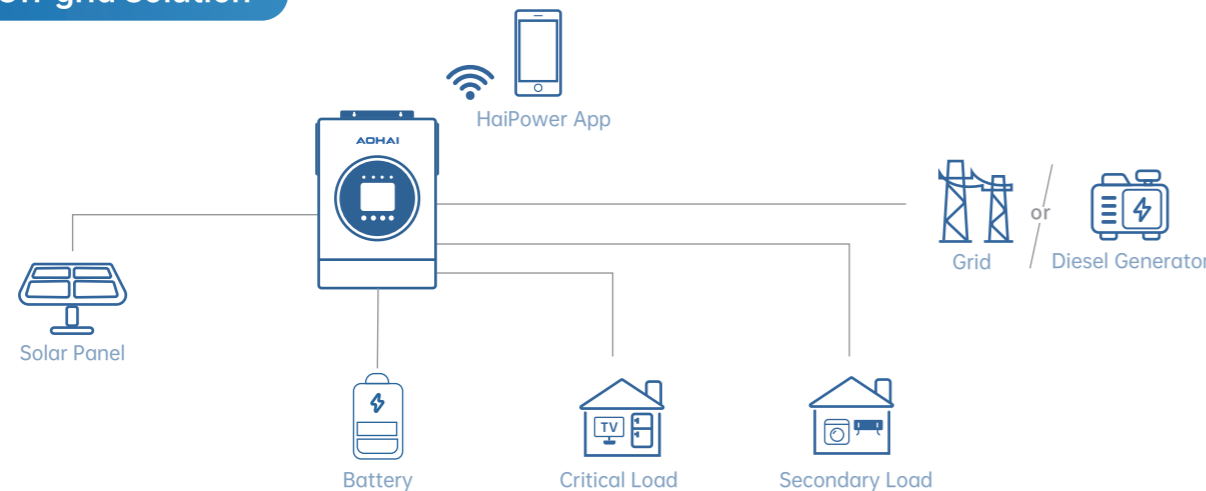
Seamless Switchover
UPS-level switching time: 4ms

Efficient Battery Charge/Discharge
Max. 120A charge current
Max. 137A discharge current

Remote Monitoring
Built-in WiFi module for HaiPower monitoring

Stylish Design
Larger screen with touch keys

Off-grid Solution



Specifications

Model	FSD-3K1P-BL	FSD-3.6K1P-BL	FSD-4K1P-BL	FSD-4.2K1P-BL
Solar Input Data				
Max. PV Input Power	3300W	3960W	4400W	5200W
Max. Input Voltage	500V			
Start-up Voltage	90V			
MPPT Voltage Range	60V~450V			
Max. Input Current per MPPT	18A			
Max. Short Circuit Current per MPPT	23A			
Number of MPPT	1			
Battery Data				
Battery Type	Li-Ion / Lead-acid			
Nominal Battery Voltage	24V			
Battery Voltage Range	20~30V			
Max. Discharge Current	137A			
Max. Charge / Discharge Power	3000W		3300W	
Li-Ion Battery Activation	Yes			
Li-Ion Battery Communication	CAN / RS485			
Max. Solar Charge Current	120A			
Max. AC Charge Current	100A			
Max. Charge Current (PV+AC)	120A			
AC Input Data (Grid)				
Nominal Input Voltage	230Vac, L / N / PE			
Input Voltage Range	90~280V			
Max. Input Current	25A			
Nominal Input Power	5700W			
AC Frequency Range	50 / 60Hz (Auto sensing)			
Inverter Output Data				
Nominal Output Power	3000W	3600W with PV & battery 3000W with battery only	4000W with PV & battery 3300W with battery only	4200W with PV & battery 3300W with battery only
Peak Apparent AC Power	6000VA	7200VA	8000VA	8400VA
Nominal AC Voltage	230V			
Nominal Grid Frequency	50 / 60Hz			
Voltage Waveform	Pure Sine Wave			
Transfer Time (Typ)	4ms			
Nominal Output Current	13.1A	15.7A	17.4A	18.3A
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)	333mm*505mm*120mm			
Weight	10.6kg			
Relative Humidity	5%~95% (Non-condensing)			
Operating Temperature Range	-10°C~60°C			
Noise Emission	≤50dB			
Altitude	2000m			
Cooling Method	Fan Cooling			
Ingress Protection	IP21			
Characteristic				
Number of AC Output	2			
Display	LCD & APP			
Communication Interface	RS485 / USB / CAN / Wi-Fi			
Parallel Capability	9			



Off-Grid Inverter

FSD-3~4.2K1P-BL-G3

「3/3.6/4/4.2kW」



Features

High-Power Module Compatibility
Higher PV input current up to 18A

Parallel Connection
Parallel connection with up to 9 units

Seamless Switchover
UPS-level switching time: 4ms

Remote Monitoring
Built-in WiFi module for HaiPower monitoring

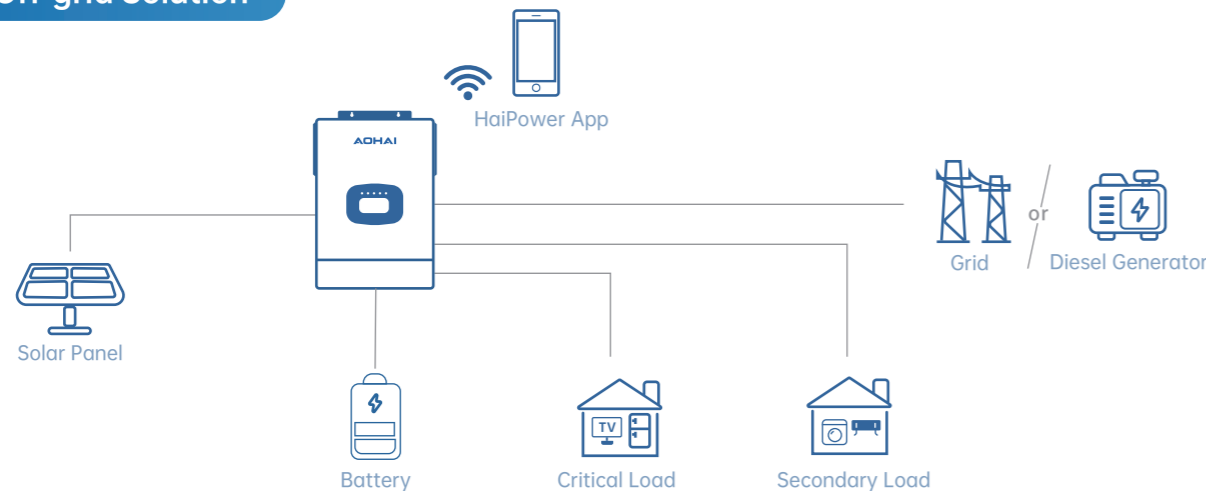
Enhanced Overload Capacity
2 times the rated power for 5 seconds

Smart Load Management
Dual AC outputs to power loads on demand priority

Efficient Battery Charge/Discharge
Max. 120A charge current
Max. 137A discharge current

Touch Screen
4.3" 800 x 480 interactive display without physical keys

Off-grid Solution



Specifications









Model	FSD-3K1P-BL-G3	FSD-3.6K1P-BL-G3	FSD-4K1P-BL-G3	FSD-4.2K1P-BL-G3
Solar Input Data				
Max. PV Input Power	3300W	3960W	4400W	5200W
Max. Input Voltage	500V			
Start-up Voltage	90V			
MPPT Voltage Range	60V~450V			
Max. Input Current per MPPT	18A			
Max. Short Circuit Current per MPPT	23A			
Number of MPPT	1			
Battery Data				
Battery Type	Li-Ion / Lead-acid			
Nominal Battery Voltage	24V			
Battery Voltage Range	20~30V			
Max. Discharge Current	137A			
Max. Charge / Discharge Power	3000W		3300W	
Li-Ion Battery Activation	Yes			
Li-Ion Battery Communication	CAN / RS485			
Max. Solar Charge Current	120A			
Max. AC Charge Current	100A			
Max. Charge Current (PV+AC)	120A			
AC Input Data (Grid)				
Nominal Input Voltage	230Vac, L / N / PE			
Input Voltage Range	90~280V			
Max. Input Current	25A			
Nominal Input Power	5700W			
AC Frequency Range	50 / 60Hz (Auto sensing)			
Inverter Output Data				
Nominal Output Power	3000W	3600W with PV & battery 3000W with battery only	4000W with PV & battery 3300W with battery only	4200W with PV & battery 3300W with battery only
Peak Apparent AC Power	6000VA	7200VA	8000VA	8400VA
Nominal AC Voltage	230V			
Nominal Grid Frequency	50 / 60Hz			
Voltage Waveform	Pure Sine Wave			
Transfer Time (Typ)	4ms			
Nominal Output Current	13.1A	15.7A	17.4A	18.3A
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)	333mm*505mm*120mm			
Weight	10.6kg			
Relative Humidity	5%~95% (Non-condensing)			
Operating Temperature Range	-10°C~60°C			
Noise Emission	≤50dB			
Altitude	2000m			
Cooling Method	Fan Cooling			
Ingress Protection	IP21			
Characteristic				
Number of AC Output	2			
Display	LCD & APP			
Communication Interface	RS485 / USB / CAN / Wi-Fi			
Parallel Capability	9			



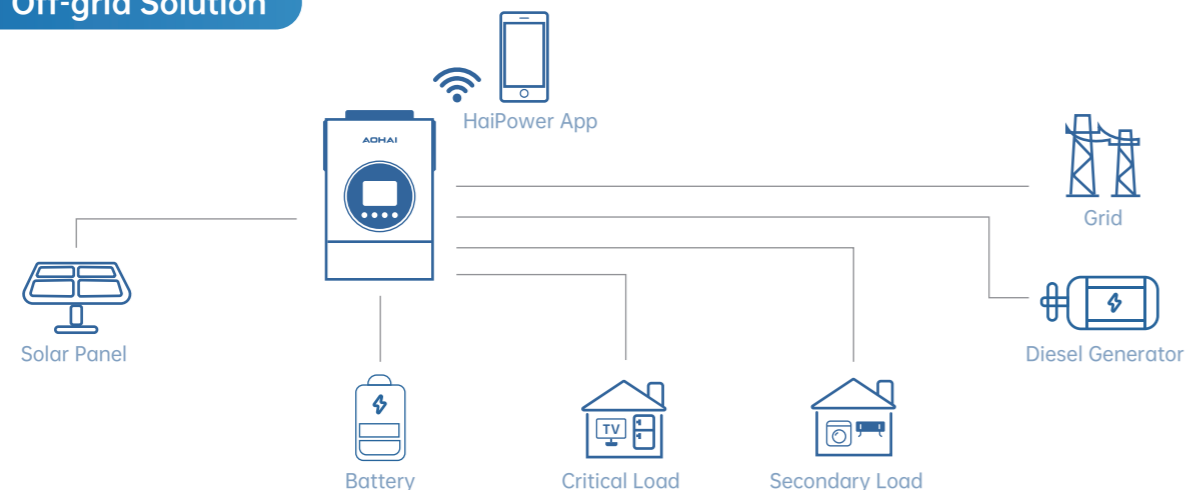
Off-Grid Inverter

AO-5~6KSL-G2
「5/6kW」

Features

-  **Support Independent Grid / Generator Input**
Dual AC inputs and integrated grid-generator switching system
-  **Smart Load Management**
Dual AC outputs design
-  **Remote Monitoring**
Built-in WiFi module for HaiPower App monitoring
-  **Overload Capacity**
2 times the rated power for 5s
-  **Parallel Connection**
Parallel connection with up to 9 units
-  **Faster On / Off-grid Switching**
UPS-level switching time:4ms
-  **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-5KSL-G2	AO-6KSL-G2
Solar Input Data		
Max. PV Input Power	6000W	7800W
Max. Input Voltage	550V	
Start-up Voltage	120V	
MPPT Voltage Range	90V-500V	
Max. Input Current per MPPT	27A	
Max. Short Circuit Current per MPPT	32A	
Number of MPPT	1	
AC Input Data (Grid & Generator)		
Nominal Input Voltage	230Vac, L / N / PE	
Input Voltage Range	90-280Vac (APL); 170-265Vac (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	48V	
Battery Voltage Range	42-60V	
Max. Discharge Current	115A	137A
Max. Charge / Discharge Power	5000W	6000W
Li-Ion Battery Activation	Yes	
Li-Ion Battery Communication	CAN / RS485	
Max. Solar Charge Current	100A	120A
Max. AC Charge Current	80A	100A
Max. Charge Current (PV+AC)	100A	120A
Inverter Output Data		
Nominal Output Power	5000W	6000W
Peak Apparent AC Power	10000VA	12000VA
Nominal AC Voltage	230V	
Nominal Grid Frequency	50 / 60Hz (Auto Sensing)	
Voltage Waveform	Pure Sine Wave	
Transfer Time	4ms	
Max. Output Current	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)	333mm*505mm*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	



Off-Grid Inverter
AO-5~6KSL-G3
「5/6kW」

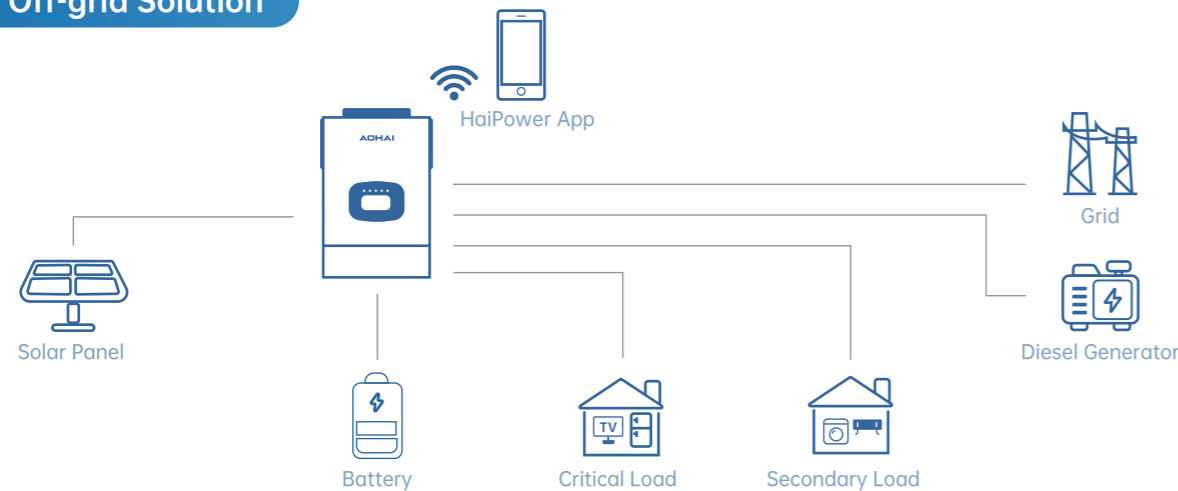


Features

- Higher PV Input**
Up to 150% PV oversizing, max. 9000W input
- Smart Load Management**
Dual AC outputs design
- Remote Monitoring**
Built-in WiFi module for HaiPower App monitoring
- Parallel Connection**
Parallel connection with up to 9 units

- Support Independent Grid / Generator Input**
Dual AC inputs and integrated grid-generator switching system
- Faster On / Off-grid Switching**
UPS-level switching time:4ms
- Efficient Battery Charge / Discharge**
Max. 120A charge current
Max. 137A discharge current
- Touch Screen**
4.3" 800 x 480 interactive display without physical keys

Off-grid Solution



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

Specifications

Technical Data	AO-5KSL-G3	AO-6KSL-G3
Solar Input Data		
Max. PV Input Power	7500W	9000W
Max. Input Voltage	550V	
Start-up Voltage	120V	
MPPT Voltage Range	90V~500V	
Max. Input Current per MPPT	27A	
Max. Short Circuit Current per MPPT	32A	
Number of MPPT	1	
AC Input Data (Grid & Generator)		
Nominal Input Voltage	230Vac, L / N / PE	
Input Voltage Range	90~280Vac (APL); 170~265Vac (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	48V	
Battery Voltage Range	42~60V	
Max. Discharge Current	115A	137A
Max. Charge / Discharge Power	5000W	6000W
Li-Ion Battery Activation	Yes	
Li-Ion Battery Communication	CAN / RS485	
Max. Solar Charge Current	100A	120A
Max. AC Charge Current	80A	100A
Max. Charge Current (PV+AC)	100A	120A
Inverter Output Data		
Nominal Output Power	5000W	6000W
Peak Apparent AC Power	10000VA	12000VA
Nominal AC Voltage	230V	
Nominal Grid Frequency	50 / 60Hz (Auto Sensing)	
Voltage Waveform	Pure Sine Wave	
Transfer Time	4ms	
Max. Output Current	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)	333mm*505mm*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	



Off-Grid Inverter

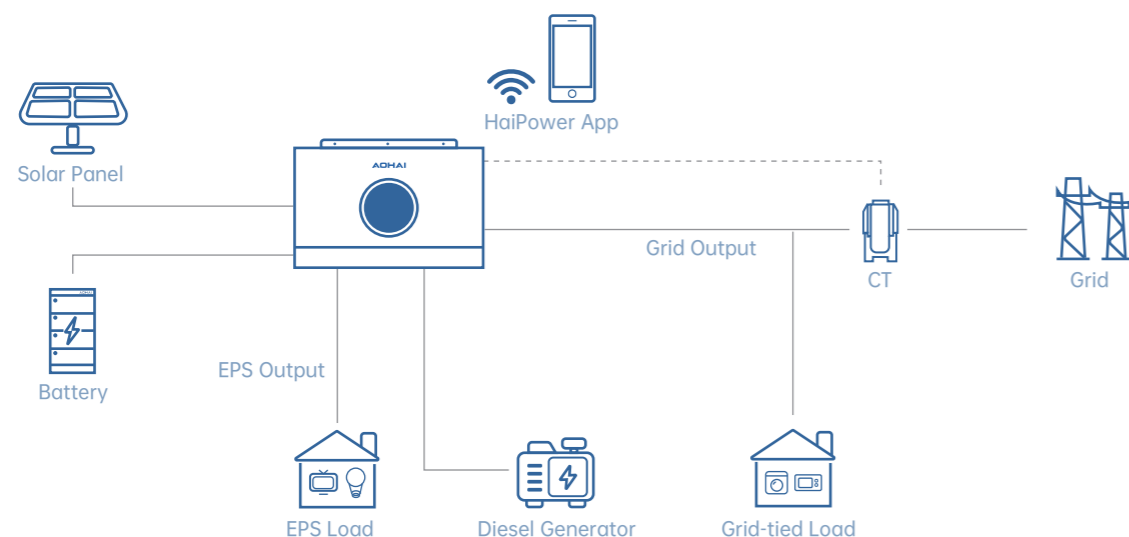
FSC-8~12K1P-BL 「8/10/12kW」



Features

- PV Oversizing**
Up to 200% PV accessing, 150% PV oversizing
- Exceptional Load-carrying Capability**
Battery discharge current up to 280A, support higher loads powered by battery only
- Parallel Connection**
Support parallel connection up to 9 units
- Powerful Instant Overload Capacity**
Support 2 times the rated power for 5 seconds in off-grid mode
- High-Temperature Adaptability**
Allow full-power output under high-temperature conditions
- Flexible Connection**
· GEN port for generator input
· Dual AC outputs for smart load management
- Seamless Switchover**
UPS-level switching time: 4ms
- CT Connection**
Equipped with CT port for anti-backflow function

Energy Storage Solution



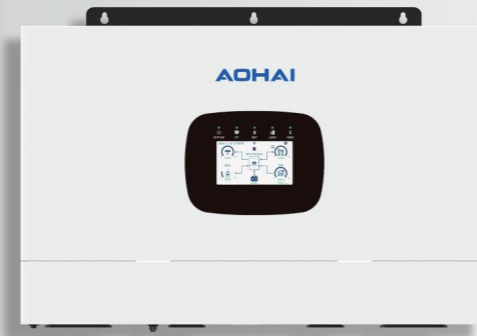
Specifications

Model	FSC-8K1P-BL	FSC-10K1P-BL	FSC-12K1P-BL
Solar Input Data			
Recommended Max. PV Array Size	16000W	20000W	24000W
Max. PV Input Power	12000W	15000W	18000W
Max. Input Voltage		500V	
Start-up Voltage		90V	
MPPT Voltage Range		90~450V	
Max. Input Current per MPPT		30+30A	
Max. Short Circuit Current per MPPT		44+44A	
Number of MPPT		2	
Number of Strings per MPPT		2	
Battery Data			
Battery Type	Li-Ion / Lead-acid		
Nominal Battery Voltage	48V		
Battery Voltage Range	40~60V		
Max. Discharge Current	190A	230A	280A
Max. Charge / Discharge Power	8000W	10000W	12000W
Li-Ion Battery Activation	Yes		
Li-Ion Battery Communication	CAN / RS485		
Max. Solar Charge Current	180A	220A	250A
Max. AC Charge Current	160A	190A	210A
Max. Charge Current (PV+AC)	180A	220A	250A
AC Input Data (Grid / GEN)			
Nominal Input Voltage	230Vac, L / N / PE		
Input Voltage Range	90-280(APL) / 170-265(UPS)		
Max. AC Current From Utility Grid	70A	70A	70A
Max. Apparent Power from Utility Grid	8000VA	10000VA	12000VA
Max AC Current From Generator	60A	60A	60A
Max. Apparent Power From Generator	8000VA	10000VA	12000VA
AC Frequency Range	50 / 60Hz (Auto sensing)		
Inverter Output Data			
Nominal Output Power	8000W	10000W	12000W
Peak Apparent AC Power	16000VA	20000VA	24000VA
Nominal AC Voltage	230Vac		
Nominal Grid Frequency	50 / 60Hz		
Voltage Waveform	Pure Sine wave		
Transfer Time	4ms		
Max. Output Current	34.8A	43.5A	52.2A
Overload Protection	30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load		
THDv (@linear load)	<5%		
Efficiency			
Peak Efficiency	94%		
MPPT Efficiency	≥99.9%		
Protection			
PV Reverse Polarity Protection	yes		
AC Short-circuit Current Protection	yes		
Grid Monitoring	yes		
Over-current Protection	yes		
Over-voltage Protection	yes		
AC Surge Protection	yes		
DC Surge Protection	yes		
System Parameters			
Dimension (W*H*D)	625mm*400mm*120mm		
Weight	17.9kg		
Relative Humidity	5%~95% (Non-condensing)		
Operating Temperature Range	-10°C~60°C		
Noise Emission	≤50dB		
Altitude	2000m		
Cooling Method	Fan Cooling		
Ingress Protection	IP21		
Characteristic			
Number of AC Output	2		
Display	LCD & APP		
Communication Interface	RS485 / USB / CAN / Wi-Fi (built-in) / Dry-Contact		
Parallel Capability	9		

Off-Grid Inverter

FSC-8~12K1P-BL-G3

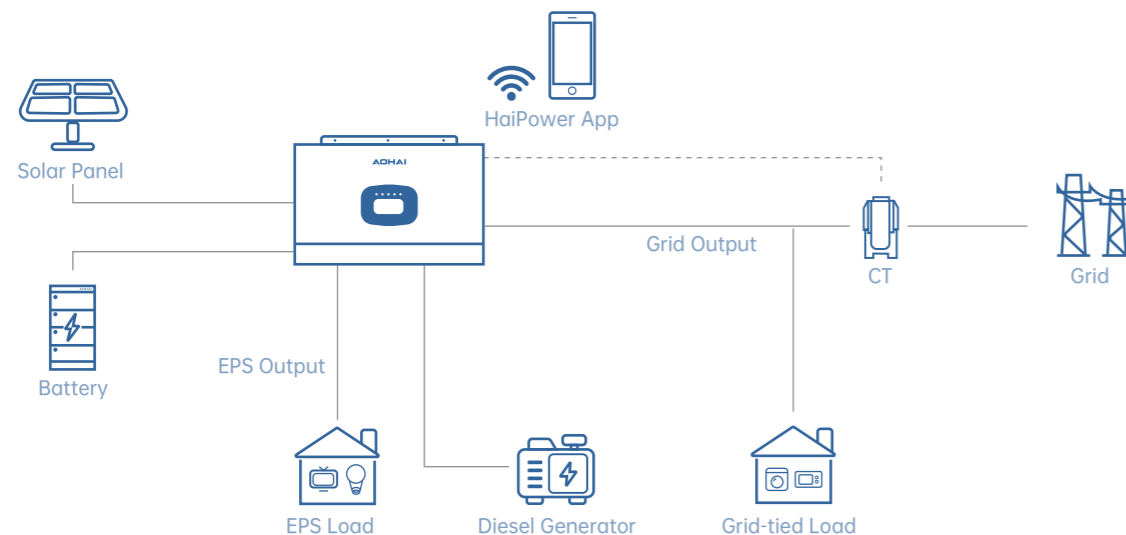
「8/10/12kW」



Features

- PV Oversizing**
Up to 200% PV accessing, 150% PV oversizing
- Exceptional Load-carrying Capability**
Battery discharge current up to 280A, support higher loads powered by battery only
- Parallel Connection**
Support parallel connection up to 9 units
- Powerful Instant Overload Capacity**
Support 2 times the rated power for 5 seconds in off-grid mode
- Touch Screen**
4.3" 800x480 interactive display
- Flexible Connection**
· GEN port for generator input
· Dual AC outputs for smart load management
- Seamless Switchover**
UPS-level switching time: 4ms
- High-Temperature Adaptability**
Allow full-power output under high-temperature conditions

Energy Storage Solution



Specifications

Model	FSC-8K1P-BL-G3	FSC-10K1P-BL-G3	FSC-12K1P-BL-G3
Solar Input Data			
Recommended Max. PV Array Size	16000W	20000W	24000W
Max. PV Input Power	12000W	15000W	18000W
Max. Input Voltage		500V	
Start-up Voltage		90V	
MPPT Voltage Range		90~450V	
Max. Input Current per MPPT		30+30A	
Max. Short Circuit Current per MPPT		44+44A	
Number of MPPT		2	
Number of Strings per MPPT		2	
Battery Data			
Battery Type		Li-Ion / Lead-acid	
Nominal Battery Voltage		48V	
Battery Voltage Range		40~60V	
Max. Discharge Current	190A	230A	280A
Max. Charge / Discharge Power	8000W	10000W	12000W
Li-Ion Battery Activation		Yes	
Li-Ion Battery Communication		CAN / RS485	
Max. Solar Charge Current	180A	220A	250A
Max. AC Charge Current	160A	190A	210A
Max. Charge Current (PV+AC)	180A	220A	250A
AC Input Data (Grid / GEN)			
Nominal Input Voltage		230Vac, L / N / PE	
Input Voltage Range		90-280(APL) / 170-265(UPS)	
Max. AC Current From Utility Grid	70A	70A	70A
Max. Apparent Power from Utility Grid	8000VA	10000VA	12000VA
Max AC Current From Generator	60A	60A	60A
Max. Apparent Power From Generator	8000VA	10000VA	12000VA
AC Frequency Range		50 / 60Hz (Auto sensing)	
Inverter Output Data			
Nominal Output Power	8000W	10000W	12000W
Peak Apparent AC Power	16000VA	20000VA	24000VA
Nominal AC Voltage		230Vac	
Nominal Grid Frequency		50 / 60Hz	
Voltage Waveform		Pure Sine wave	
Transfer Time		4ms	
Max. Output Current	34.8A	43.5A	52.2A
Overload Protection		30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load	
THDv (@linear load)		<5%	
Efficiency			
Peak Efficiency		94%	
MPPT Efficiency		≥99.9%	
Protection			
PV Reverse Polarity Protection		yes	
AC Short-circuit Current Protection		yes	
Grid Monitoring		yes	
Over-current Protection		yes	
Over-voltage Protection		yes	
AC Surge Protection		yes	
DC Surge Protection		yes	
System Parameters			
Dimension (W*H*D)		625mm*400mm*120mm	
Weight		17.9kg	
Relative Humidity		5%~95% (Non-condensing)	
Operating Temperature Range		-10°C~60°C	
Noise Emission		≤50dB	
Altitude		2000m	
Cooling Method		Fan Cooling	
Ingress Protection		IP21	
Characteristic			
Number of AC Output		2	
Display		LCD & APP	
Communication Interface		RS485 / USB / CAN / Wi-Fi (built-in) / Dry-Contact	
Parallel Capability		9	



Features

Stable Performance
Lithium iron phosphate (LiFePO4) battery

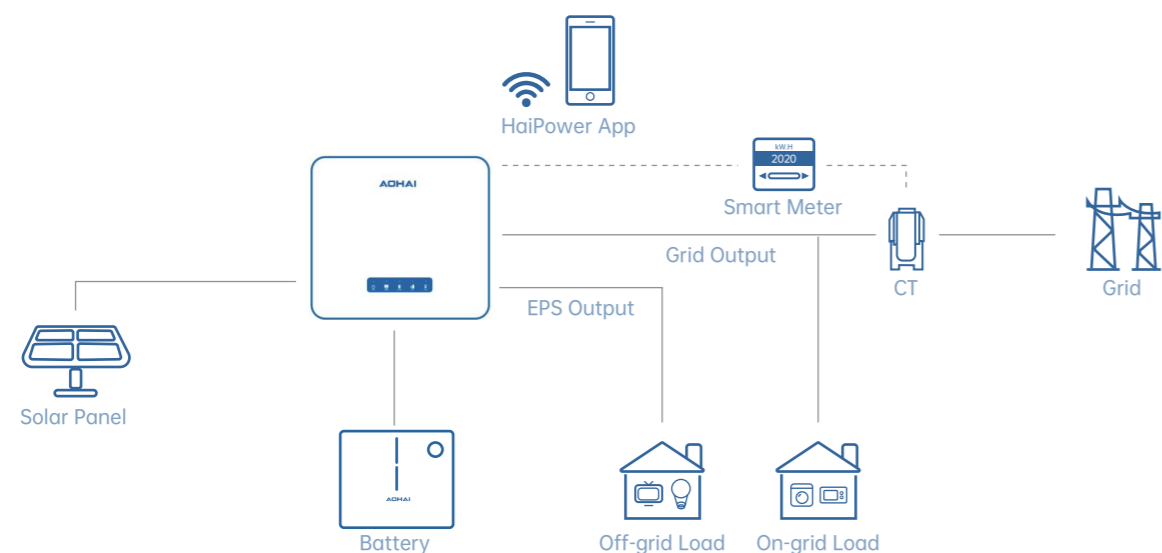
Flexible Expansion
Max. 15pcs in parallel for capacity expansion

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	56.16V	56.16V
Discharge Cut-off Voltage	45.6V	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: 20A; 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)	520mm*470mm*141.5mm	800mm*590mm*142mm
Battery Net Weight	48.45kg	98kg
Battery Gross Weight	54.15kg	106kg



Low Voltage Battery

AS-5.12~30.72LD-GL1

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

Features

Stable Performance
Lithium iron phosphate (LiFePO4) battery

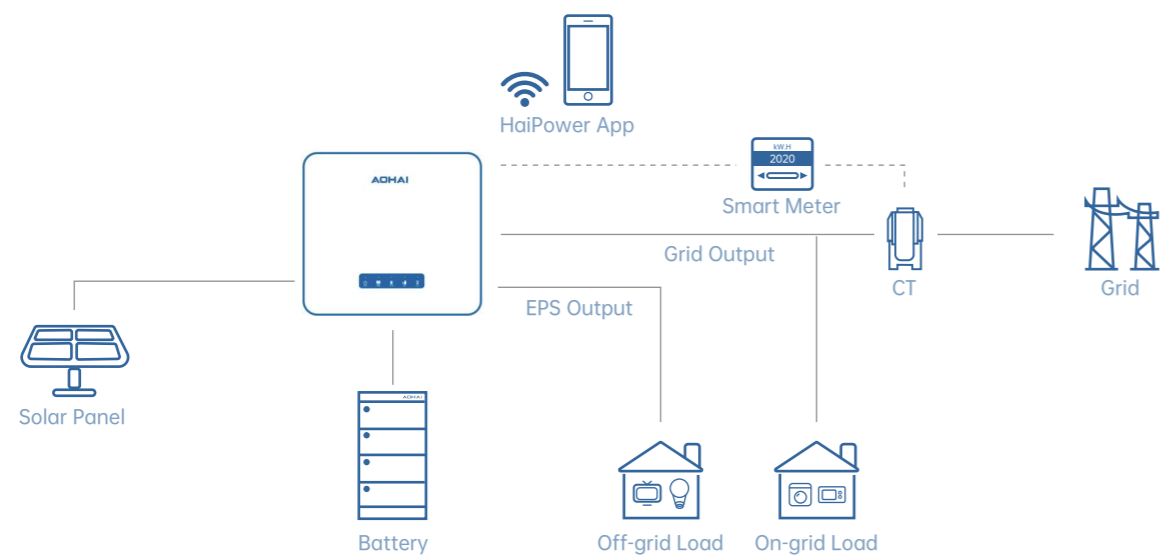
Flexible Expansion
Max. 6 layers in series to meet diverse energy needs

Higher Extensibility
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: 600mm*300mm*210mm					
Battery Gross Weight	48kg					

High Voltage Battery

AS-7.68~25.6HD-GL1

[7.68/10.24/12.8/15.36/17.92/20.48/23.04/25.6kWh]



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-GL1 AS-23.04HD-GL1 AS-25.6HD-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
Operating Voltage Range	129.6V~168.48V	172.8V~224.64V	216V~280.8V	259.2V~336.96V	302.4V~393.12V	345.6V~449.28V	388.8V~505.44V	432V~561.6V
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-GPSSD, 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: 14kg; Battery Box: 28kg

Features

Stable Performance
Lithium iron phosphate (LiFePO4) battery

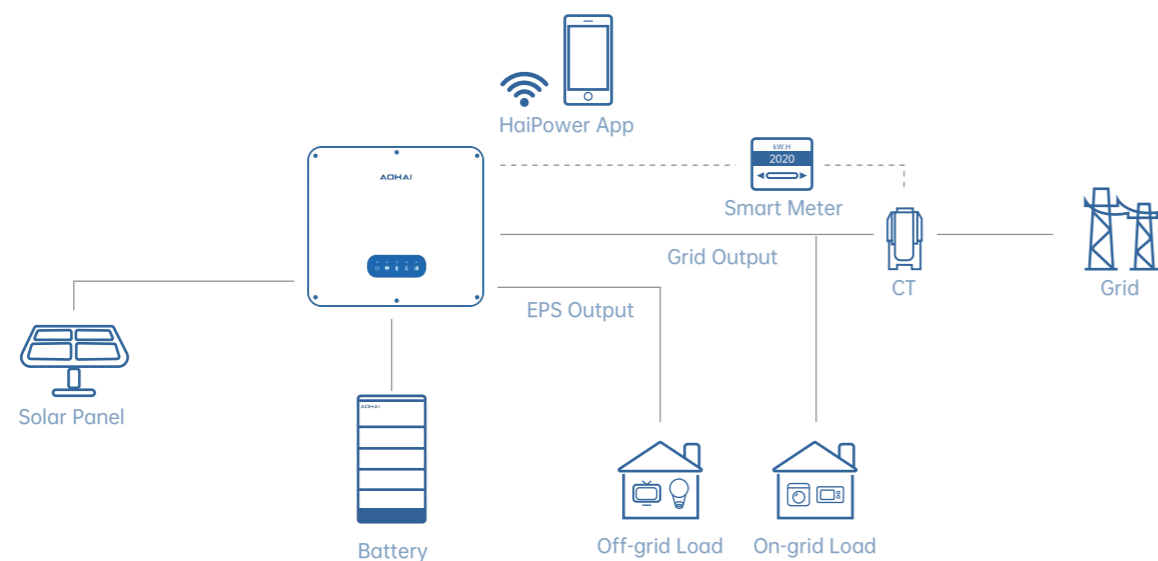
Flexible Expansion
Max. 10 layers in series for capacity expansion

Higher Extensibility
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



All-in-one Three Phase ESS

AHW-6~10KTHD-G1

「6/7/8/10kW | 7.68~25.6kWh」



Features

1.5

Oversizing Ratio

DC/AC ratio up to 150%

16A

Max. PV Input Current

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

10ms

Seamless Switchover

UPS level switching time < 10ms

2

MPPT Channels

Flexible PV input with 2 MPPTs

100%

Unbalanced Output

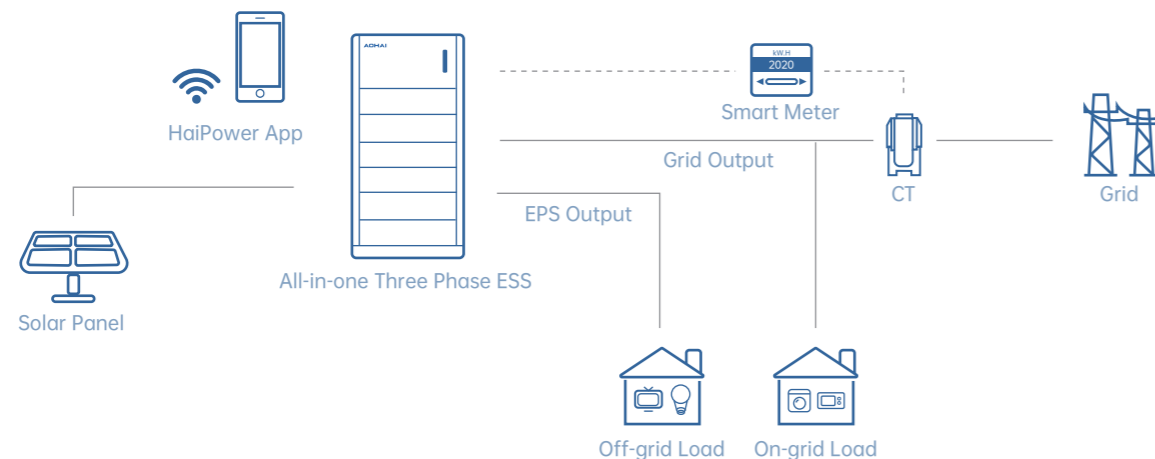
100% three-phase unbalanced output

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
Operating Voltage Range	129.6V~168.48V	172.8V~224.64V	216V~280.8V	259.2V~336.96V	302.4V~393.12V	345.6V~449.28V	388.8V~505.44V	432V~561.6V
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	LEP
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.









EV Charger

EA7000W/
EA011KW/ EA022KW

「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	



POWER YOUR WAY

Data Logger

WiFi-U / 4G-U / WiFi-LAN



(WiFi-LAN)



(4G-U / WiFi-U)

WiFi-U

- 2.4GHz WiFi network supported
- Multi protocols to secure data transmission

4G-U

- 2.4GHz WiFi network supported
- 4G communication supported
- EMS function supported

WiFi-LAN

- 2.4GHz / 5GHz WiFi network supported
- Ethernet connection supported
- EMS function supported

Specifications

Device Model	WiFi-U	4G-U	WiFi-LAN
General Parameters			
Dimensions (L/W/Tmm)	130mm*50.7mm*31.9mm	130mm*50.7mm*31.9mm	162mm*50.5mm*32mm
Weight	60g	71g	75g
Power	5V / 1A (USB port)		
Operating Current	500mA	1000mA	500mA
Average Power Consumption	2.5W	3.5W	2.5W
Operating Temperature	-25°C to +65°C		
Storage Temperature	-40°C to +70°C		
Protection Grade	IP65		
Relative Humidity (non-condensing)	5% to 95% RH		
Installation Method	USB port		
Certification	CE / UK-CA / RoHS		
Warranty	5-year limited hardware warranty		
Communication Parameters			
4G	\	LTE-FDD: B1 / B3 / B5 / B7 / B8 / B20 GSM: 900 / 1800MHz	\
Ethernet	\	\	10 / 100M Ethernet
Wi-Fi	IEEE 802.11 b/g/n @2.4 GHz	IEEE 802.11 b/g/n @2.4 GHz	Universal 2.4 & 5GHz Dual-Band Wi-Fi 6 (802.11ax) Support
Bluetooth	Bluetooth® LE Standard / Bluetooth V4.2 and above		
USB	Hardware USB 2.0 CDC communication port		
Button	Quick-press function buttons		
LED	RGB Tri-Color Light		
Flash	4M FLASH		
Application Parameters			
Server Protocol	MQTT and TLS1.2		
Data Encryption	AES encryption		
User Configuration	WEB / App configuration (BLE network configuration)		
Data Updating	Every 5 minutes		

AOHAI



Shenzhen Aohai Digital Power Co.,Ltd

📍 Company Address: 10th Floor, Building 4, Tianan Yungu Industrial Park Phase II, Longgang District, Shenzhen, China

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

✉️ contact@aohaiglobal.com