SMART ENERGY SOLUTIONS

RESIDENTIAL | COMMERCIAL | INDUSTRIAL

2023 CATALOGUE

HUZONE
SMART ENERGY

Huzone is the trademark of Shanghai Huzhen Intelligent Technology Co. Ltd., a high-tech enterprise specialized in the R&D, production and sales of intelligent energy products, as well as the investment, development, construction and service of photovoltaic and energy storage power stations.

Focusing on providing advanced distributed energy storage products and smart energy management solutions for homes, industrial and commercial enterprises, power grids and utilities, our goal is to help users manage their new energy generation, storage and use, thereby reducing consumption and cost and improving electricity security.

#SmartEnergy

9001:2015
14001:2015
45001:2018

14 Registered Patents

RESIDENTIAL

COMMERCIAL

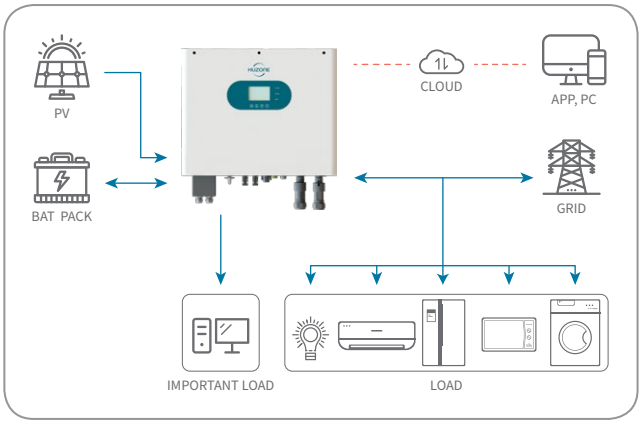
INDUSTRIAL

HIH-3~6K-SL

Single-Phase Hybrid Inverter

3kW / 3.6kW / 4kW / 4.6kW / 5kW / 6kW

- ✓ Compatible with different batteries, perfect protection function and strong environmental adaptability
- ✓ Wide DC input voltage range design
- ✓ Light weight, natural cooling and low noise
- ✓ Ingress protection IP65, wall mounted design
- ✓ Battery reverse polarity protection
- ✓ Compatible anti-backflow function
- ✓ Seamless switching between off-grid and on-grid
- ✓ Maximum efficiency up to 97.6%
- ✓ Multi-period charge and discharge design, guarantee user' s investment income
- ✓ Household intelligent energy management terminal




Villa


Hotel


Residential electricity


Hospital


Museum


Church


Farm

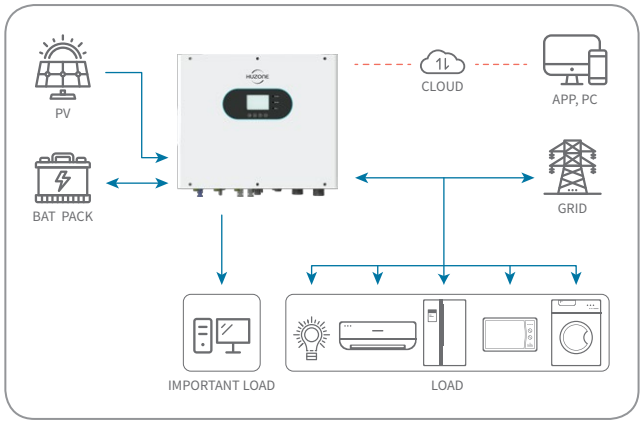
Technical Data	HIH-3K-SL	HIH-3.6K-SL	HIH-4K-SL	HIH-4.6K-SL	HIH-5K-SL	HIH-6K-SL
PV Input						
Maximum Input Power	4.6 kW		6 kW		7 kW	
Maximum Input Voltage	550 V					
MPPT Voltage Range	125~500 V					
MPPT Rated Voltage	360 V					
Number Of MPPT / Strings Per Channel	2/1					
Maximum MPPT Input Current	13/13 A					
Battery Input						
Battery Type	Lithium, Lead-Acid					
Maximum Charge Voltage	58 V					
Voltage Range	40~58 V					
Maximum Charge/Discharge Current	95/100 A					
Communication	CAN					
AC Output (On-Grid)						
Rated Output Power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Rated Output Voltage	230 V (1PH, N, PE)					
Output Voltage Range	176~270 V					
Maximum Output Current	13 A	16 A	17.4 A	20 A	21.7 A	26 A
Output Frequency	50/60 Hz					
Power Factor	1 (0.8 leading~0.8 lagging)					
THDi	<3%					
Grid Connection Type	L+N+PE					
Backup AC Output (EPS)						
Rated Output Power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Rated Output Current	13 A	16 A	17.4 A	20 A	21.7 A	26 A
Rated Output Voltage	230 V (1PH, N, PE)					
Output Frequency	50/60 Hz					
THDu	<2%					
Overload Capacity	110%, 60s / 120%, 30s / 150%, 10s					
Automatic Switching Time	<20 ms					
General Data						
Maximum Efficiency	97.6%					
Euro Efficiency	97%					
MPPT Efficiency	99.9%					
Ingress Protection Rating	IP65					
Noise	<35 dB					
Temperature Range	-25~60°C					
Cooling Method	Natural Cooling					
Relative Humidity	0~95%, Non-condensing					
Altitude	⩽4000 m (>2000 m Derating)					
Display	LCD					
Communication	RS485, Wi-Fi, GPRS, CAN, DRM					
Standards and Certifications	CE, TÜV, SAA, IEC62116:2014, IEC61683:1999					
Weight	25 kg					
Dimensions (WxDxH)	541x238x441 mm					

HIH-4~8K-TL

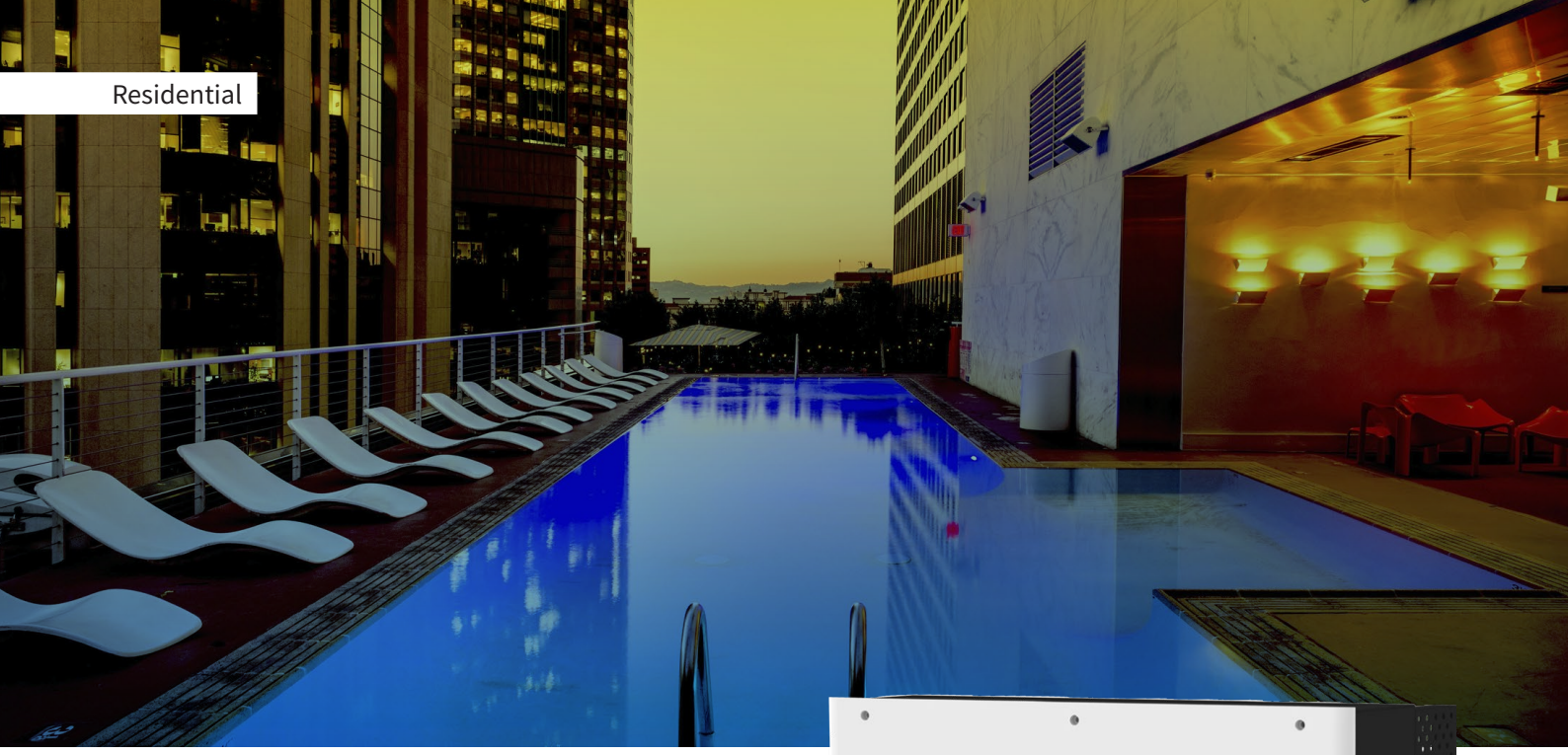
Three-Phase Hybrid Inverter

4kW / 5kW / 6kW / 8kW

- ✓ Compatible with different batteries, perfect protection function and strong environmental adaptability
- ✓ Wide DC input voltage range design
- ✓ Multi-channel PV MPPT access to improve power generation utilization
- ✓ Off-grid output connection unbalanced load, supports three phase independent output
- ✓ Ingress protection IP65, wall mounted design
- ✓ Battery reverse polarity protection
- ✓ Compatible anti-backflow function
- ✓ Seamless switching between off-grid and on-grid
- ✓ Maximum efficiency up to 98%
- ✓ Multiple working mode: Self-use mode, Time-of-use mode, Timing mode, Passive mode
- ✓ Remote monitoring of PC and mobile phones



Technical Data	HIH-4K-TL	HIH-5K-TL	HIH-6K-TL	HIH-8K-TL
PV Input				
Maximum Input Power	6 kW	7.5 kW	9 kW	12 kW
Start-up Voltage	200 V			
Maximum Input Voltage	1000 V			
MPPT Voltage Range	180~960 V			
MPPT Working Voltage For Full Load	220~850 V	250~850 V	320~850 V	360~850 V
Number Of MPPT / Strings Per Channel	2/1			
Maximum MPPT Input Current	25 A (12.5/12.5)			
Battery Input				
Battery Type	Lithium, Lead-Acid			
Number Of Battery Input	1			
Voltage Range	180~800 V			
Voltage Range For Full Load	200~800 V	200~800 V	240~800 V	320~800 V
Maximum Charge/Discharge Current	25 A			
Communication	CAN, RS485			
Battery Charging Strategy	According to BMS instructions / 3 Stages (Lead-Acid)			
AC Output (On-Grid)				
Rated Output Power	4 kW	5 kW	6 kW	8 kW
Maximum Output Power	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA
Rated Output Voltage	220/380V, 230/400V (3PH, N, PE)			
Output Voltage Range	184~276 V			
Maximum Output Current	6.5 A	8 A	10 A	13 A
Output Frequency	50/60 Hz (45~54.9 / 54.9~65)			
Power Factor	1 (0.8 leading~0.8 lagging)			
THDi (Rated Power)	<3%			
Backup AC Output (EPS)				
Rated Output Power	4 kVA	5 kVA	6 kVA	8 kVA
Maximum Output Power	4.4kVA 60s, 6kVA 1s	5.5kVA 60s, 7.5kVA 1s	6.6kVA 60s, 9kVA 1s	8.8kVA 60s, 12kVA 1s
Maximum Output Current	6.5 A	8 A	10 A	13 A
Rated Output Voltage	220/380V, 230/400V (3PH, N, PE)			
Output Frequency	50/60 Hz (±0.2%)			
THDu (Linear Load)	<3%			
Automatic Switching Time	<10 ms			
General Data				
Maximum Efficiency	98%			
Protection	DC Lightning Protection, AC Lightning Protection, PV Reverse Polarity Protection, Battery Reverse Protection, Insulation Resistor Detection, Leakage Current Detection, Anti-island Protection, Grounding Fault, Input Overvoltage & Unervoltage, Output Overvoltage & Unervoltage, Input Overcurrent, Output Overcurrent, Overheat Protection			
Ingress Protection Rating	IP65			
Noise	<40 dB			
Temperature Range	-25~60°C			
Cooling Method	Natural Cooling			
Relative Humidity	0~95%			
Altitude	⩽4000 m (>2000 m Derating)			
Display	LCD			
Communication	RS485, CAN (Standard); Wi-Fi (Optional)			
BMS Communication	RS485, CAN			
Standby Consumption	<15 W			
Grid Standard	VDE4105/EN50549			
Safety Standard	CE/IEC62109			
Weight	26 kg			
Dimensions (WxDxH)	540x240x450 mm			

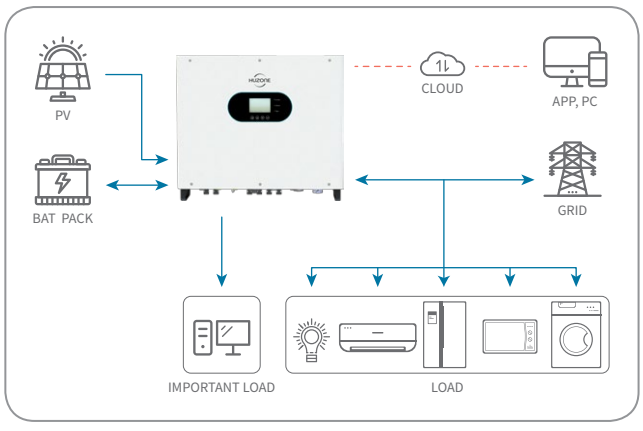


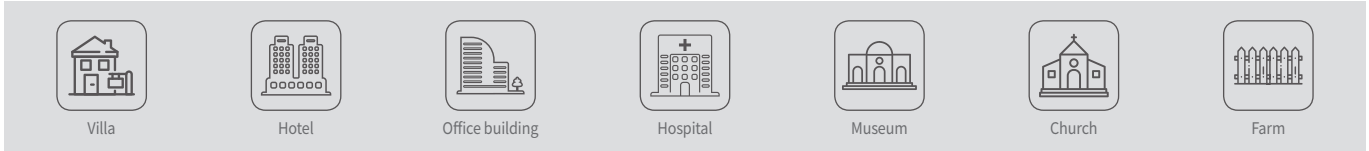
HIH-10~20K-TL

Three-Phase Hybrid Inverter

10kW / 12kW / 15kW / 20kW

- ✓ Compatible with different batteries, perfect protection function and strong environmental adaptability
- ✓ Wide DC input voltage range design
- ✓ Multi-channel PV MPPT access to improve power generation utilization
- ✓ Off-grid output connection unbalanced load, supports three phase independent output
- ✓ Ingress protection IP65, wall mounted design
- ✓ Battery reverse polarity protection
- ✓ Compatible anti-backflow function
- ✓ Seamless switching between off-grid and on-grid
- ✓ Maximum efficiency up to 98.2%
- ✓ Multiple working mode: Self-use mode, Time-of-use mode, Timing mode, Passive mode
- ✓ Remote monitoring of PC and mobile phones





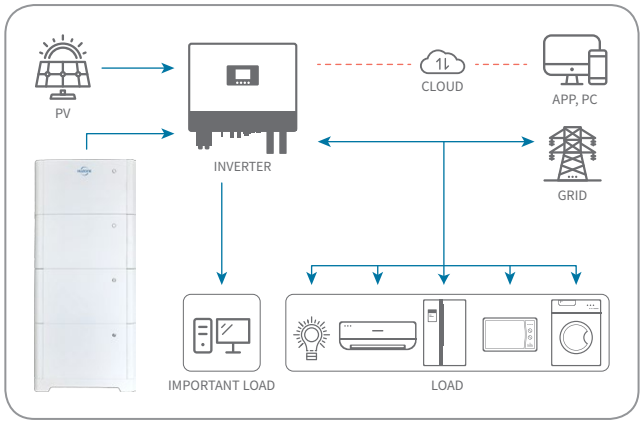
Technical Data	HIH-10K-TL	HIH-12K-TL	HIH-15K-TL	HIH-20K-TL
PV Input				
Maximum Input Power	15 kW	18 kW	22.5 kW	30 kW
Start-up Voltage	200 V			
Maximum Input Voltage	1000 V			
MPPT Voltage Range	180~960 V			
MPPT Working Voltage For Full Load	220~850 V	264~850 V	350~850 V	450~850 V
Number Of MPPT / Strings Per Channel	2/2			
Maximum MPPT Input Current	50 A (25/25)			
Battery Input				
Battery Type	Lithium, Lead-Acid			
Number Of Battery Input	2			
Voltage Range	180~800 V			
Voltage Range For Full Load	200~800 V	240~800 V	300~800 V	400~800 V
Maximum Charge/Discharge Current	50/50 A (25+25)			
Communication	CAN, RS485			
Battery Charging Strategy	According to BMS instructions / 3 Stages (Lead-Acid)			
AC Output (On-Grid)				
Rated Output Power	10 kW	12 kW	15 kW	20 kW
Maximum Output Power	11 kVA	13.2 kVA	16.5 kVA	22 kVA
Rated Output Voltage	220/380V, 230/400V (3PH, N, PE)			
Output Voltage Range	184~276 V			
Maximum Output Current	16 A	19 A	24 A	32 A
Output Frequency	50/60 Hz (45~54.9 / 54.9~65)			
Power Factor	1 (0.8 leading~0.8 lagging)			
THDi (Rated Power)	<3%			
Backup AC Output (EPS)				
Rated Output Power	10 kVA	12 kVA	15 kVA	20 kVA
Maximum Output Power	11kVA 60s, 15kVA 1s	13.2kVA 60s, 18kVA 1s	16.5kVA 60s, 22.5kVA 1s	22kVA 60s, 30kVA 1s
Maximum Output Current	16 A	19 A	24 A	32 A
Rated Output Voltage	220/380V, 230/400V (3PH, N, PE)			
Output Frequency	50/60 Hz (±0.2%)			
THDu (Linear Load)	<3%			
Automatic Switching Time	<10 ms			
General Data				
Maximum Efficiency	98.2%			
Protection	DC Lightning Protection, AC Lightning Protection, PV Reverse Polarity Protection, Battery Reverse Protection, Insulation Resistor Detection, Leakage Current Detection, Anti-island Protection, Grounding Fault, Input Overvoltage & Unervoltage, Output Overvoltage & Unervoltage, Input Overcurrent, Output Overcurrent, Overheat Protection			
Ingress Protection Rating	IP65			
Noise	<40 dB			
Temperature Range	-25~60°C			
Cooling Method	Smart Fan Cooling			
Relative Humidity	0~95%			
Altitude	⩽4000 m (>2000 m Derating)			
Display	LCD			
Communication	RS485 (Standard); Wi-Fi / GPRS / Ethernet (Optional)			
BMS Communication	RS485, CAN			
Standby Consumption	<15 W			
Grid Standard	VDE4105/EN50549			
Safety Standard	CE/IEC62109			
Weight	37 kg			
Dimensions (WxDxH)	591x271x476 mm			

HBS-5300-L1~L4

LFP / LiFePO4 Stacked Battery System

5.37kWh / 10.74kWh / 16.11kWh / 21.48kWh

- ✓ Practical design for floor-standing or wall-mounted installation modes
- ✓ LFP cells from top quality manufacturer, with cycle life ⩾6000 times
- ✓ Intelligent management, multiple safety design, safe and reliable household use
- ✓ High conversion efficiency and low self-consumption
- ✓ More than 10 years of life design
- ✓ Easy installation with modular and stacked design
- ✓ Flexible capacity options: 5.37kWh to 21.48kWh
- ✓ Ingress protection IP65, indoor/outdoor use
- ✓ Compatible with different brands of energy storage inverters
- ✓ Supports remote diagnosis and upgrade




Villa


Hotel


Residential electricity


Hospital


Museum


Church


Farm

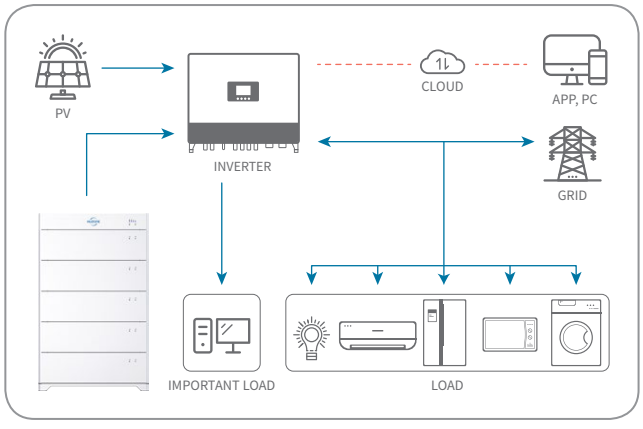
Technical Data	HBS-5300-L1	HBS-5300-L2	HBS-5300-L3	HBS-5300-L4
Battery Cell				
Battery Type	LFP / LiFePO4 (Lithium Iron Phosphate)			
Specifications	3.2 V / 105 Ah			
Battery Unit				
Rated Energy	5.37 kWh			
Rated Voltage	51.2 V			
Specifications	51.2 V / 105 Ah			
Composition	1 P16S/Cell			
Battery Pack				
Rated Energy	5.37 kWh	10.74 kWh	16.11 kWh	21.48 kWh
Number of Modules	1	2	3	4
Rated Voltage	51.2 V			
Voltage Range	44.8~57.6 V			
Standard Charge Current	52.5 A (0.5C)	105 A (0.5C)	157.5 A (0.5C)	210 A (0.5C)
Standard Discharge Current	52.5 A (0.5C)	105 A (0.5C)	157.5 A (0.5C)	210 A (0.5C)
Maximum Discharge Depth	90% DOD			
General Data				
Ingress Protection Rating	IP65			
Cycle Life	⩾6000 Cycles (25°C, 85% DOD) / ⩾10 Years			
Communication	CAN			
Charge Temperature Range	0~50°C			
Discharge Temperature Range	-10~50°C			
Storage Temperature	-10~45°C			
Relative Humidity	20%~80%			
Cooling Method	Natural Cooling			
Standards and Certifications	CE/IEC62619/UL1973/UN38.3			
Weight	67.5 kg	126.5 kg	185.5 kg	244.5 kg
Dimensions (WxDxH)	645x215x433 mm	645x215x786 mm	645x215x1139 mm	645x215x1492 mm

HBS-3900-H3~H5

LFP / LiFePO4 Stacked Battery System

11.9kWh / 15.9kWh / 19.9kWh

- ✓ Inverter protocol auto-match
- ✓ 6000 cycles at 90% DOD
- ✓ Capacity range from 11.9kWh to 19.9kWh
- ✓ Module level auto-balancing
- ✓ 1C/1C continual charge and discharge
- ✓ One hour quick charge
- ✓ Battery auto-force charge
- ✓ Undervoltage automatic restart
- ✓ Remote diagnosis and software upgrades
- ✓ Simple assembly and disassembly



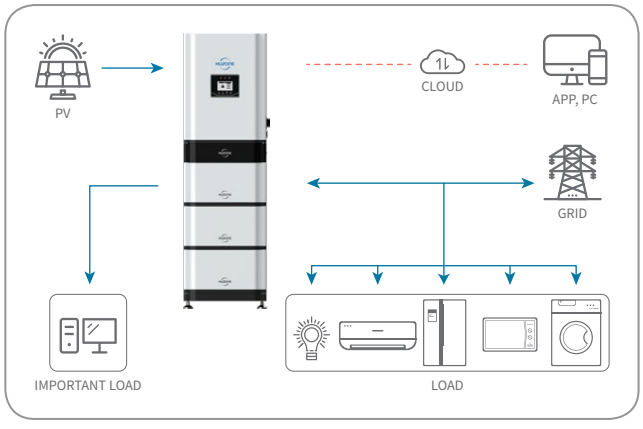
Technical Data	HBS-3900-H3	HBS-3900-H4	HBS-3900-H5
Battery Cell			
Battery Type	LFP / LiFePO4 (Lithium Iron Phosphate)		
Specifications	3.2 V / 39 Ah		
Battery Unit			
Rated Energy	3.99 kWh		
Rated Voltage	102.4 V		
Specifications	102.4 V / 39 Ah		
Composition	1 P32S/Cell		
Battery Pack			
Rated Energy	11.9 kWh	15.9 kWh	19.9 kWh
Number of Modules	3	4	5
Rated Voltage	307.2 V	409.6 V	512 V
Voltage Range	240~350.4 V	320~467.2 V	400~584 V
Standard Charge Current	40 A (1C)		
Standard Discharge Current	40 A (1C)		
Maximum Discharge Depth	90% DOD		
General Data			
Ingress Protection Rating	IP65		
Cycle Life	⩾6000 Cycles (25°C, 85% DOD) / ⩾10 Years		
Communication	CAN		
Charge Temperature Range	0~50°C		
Discharge Temperature Range	-10~50°C		
Storage Temperature	-10~45°C		
Relative Humidity	20%~80%		
Cooling Method	Natural Cooling		
Standards and Certifications	CE/IEC62619/UL1973/UN38.3		
Weight	135 kg	175 kg	215 kg
Dimensions (WxDxH)	690x358x720 mm	690x358x910 mm	690x358x1100 mm

HAS-3~8K

All-In-One Stacked Energy Storage System

3kW / 4.2kW / 5kW / 6kW / 7kW / 8kW

- ✓ The number of stacking battery modules is from 1 to 4 (4kWh~16kWh), LFP, which can be flexibly adjusted
- ✓ IP65 protection grade, high power quality, does not interfere with electrical equipment, ultra-low radiation
- ✓ Supports emergency power supply and seamless off-grid switching
- ✓ Stacked installation mode, no external wiring
- ✓ Ultra-quiet design, flexible communication mode
- ✓ Maximum efficiency 97.4%, intelligent MPPT algorithm, tracking efficiency 99.99%




Villa


Hotel


Residential electricity


Hospital


Museum


Church


Farm

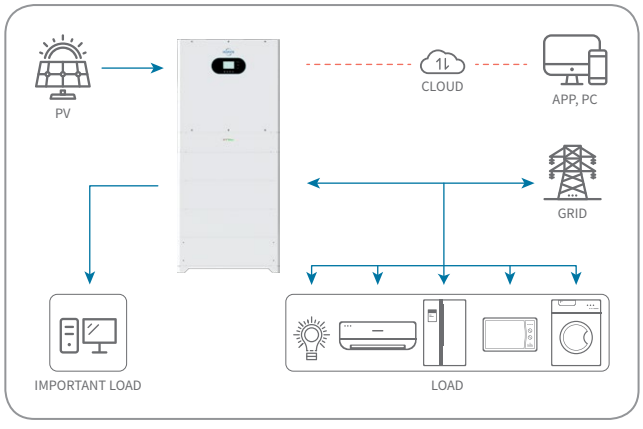
Technical Data	HAS-3K	HAS-4.2K	HAS-5K	HAS-6K	HAS-7K	HAS-8K
PV Input						
Maximum Input Power	3.3 kW	4.6 kW	5.5 kW	6.6 kW	7.7 kW	8.8 kW
Maximum Input Voltage	600 V					
MPPT Voltage Range / Rated Voltage	80~500 V / 360 V					
Start-up Voltage	85 V					
Rated Input Voltage	360 V					
Number Of MPPT / Strings Per Channel	2/1					
Maximum Input Current	16 A					
Short-circuit Current	25 A					
Battery (Built-in)						
Battery Type	LFP / LiFePO4 (Lithium Iron Phosphate)					
Specifications	102 V / 40 Ah					
Rated Energy	4.096 kWh / 8.192 kWh / 12.288 kWh / 16.384 kWh					
Voltage Range	93~454 V					
Number of Modules	1~4					
Maximum Current	30 A					
Maximum Charge/Discharge Power	3kW / 3kW	4.2kW / 4.2kW	5kW / 5kW	6kW / 6kW	7kW / 7kW	8kW / 8kW
Cycle Life (25°C)	6000 Cycles					
AC Output (On-Grid)						
Rated Output Power	3 kW	4.2 kW	5 kW	6 kW	7 kW	8 kW
Maximum Output Power	3 kVA	4.2 kVA	5 kVA	6 kVA	7 kVA	8 kVA
Rated Output Voltage	230 V (1PH, N, PE)					
Output Frequency	50/60 Hz					
Maximum Output Current	13 A	18.3 A	21.7 A	26 A	30.4 A	34.8 A
Power Factor	-1~1					
THDi (Rated Power)	<3%					
UPS						
Rated Output Power	3 kW	4.2 kW	5 kW	6 kW	7 kW	8 kW
Peak Output Power	3 kW	4.2 kW	5 kW	6 kW	7 kW	8 kW
Output Voltage	230 V					
Maximum Output Current	13 A	18.3 A	21.7 A	26 A	30.4 A	34.8 A
Output Frequency	50/60 Hz					
General Data						
Maximum Efficiency	97.4%					
Euro Efficiency	97.1%					
Protection	PV Insulation Resistance Detection, Residual Current Detection, PV Reverse Polarity Protection, Anti-island Protection, AC Overcurrent Protection, DC Switch, AC Surge Protection (Level 3), DC Surge Protection (Level 3)					
Ingress Protection Rating	IP65					
Temperature Range	-10~45°C (Can not be charged below 0°C)					
Cooling Method	Natural Cooling					
Relative Humidity	0~95%					
Altitude	⩽3000 m					
Display	LCD, Wi-Fi+APP					
Communication	Wi-Fi, RS485, GPRS					
Communication with Meter	CT Meter					
Topology	Non-isolated Type					
Weight	60~150 kg					
Dimensions (WxDxH)	425x340 mm					

HAS-10~20K-3900

All-In-One Stacked Energy Storage System

10kW / 12kW / 15kW / 20kW

- ✓ All-in-one design integrates with the internal PCS system (10kW / 12kW / 15kW / 20kW), battery system, BMS, high voltage distribution system, and external communication via CAN/485/Wi-Fi/4G
- ✓ IP65 protection level, shock resistance, vibration and collision resistant, fully shockproof
- ✓ The battery adopts high pressure LFP with good thermal stability (3.99kWh modules), high flame retardant electrolyte, ceramic diaphragm, and high safety laminated design
- ✓ No wiring required, plug and play, easy to install
- ✓ Charging and discharging live of more than 6000 cycles, combined with the BMS network equalization algorithm, system service life of more than 10 years
- ✓ Achieved UN38.3, IEC62619, IEC63056, EN IEC61000 and other related certifications

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Church


Farm

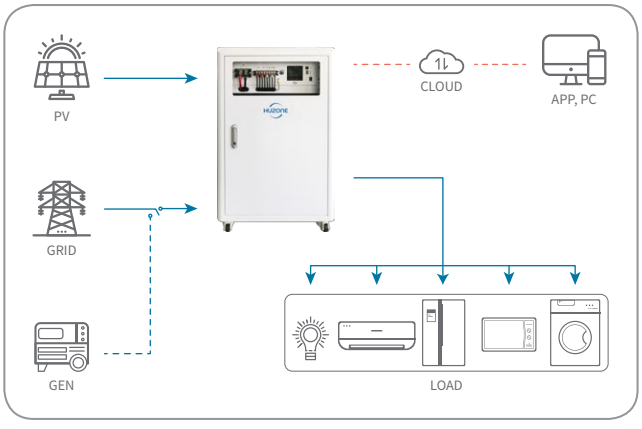
Technical Data	HAS-10K-3900-H3	HAS-12K-3900-H4	HAS-15K-3900-H5	HAS-20K-3900-H5
PV Input				
Maximum Input Power	15 kW	18 kW	22.5 kW	30 kW
Start-up Voltage	200 V			
Maximum PV Input Voltage	1000 V			
MPPT Voltage Range	180~960 V			
MPPT Voltage Range For Full Load	220~850 V	264~850 V	350~850 V	450~850 V
Number Of MPPT / Strings Per Channel	2/2			
Maximum MPPT Input Current	50 A (25/25)			
Battery (Built-in)				
Battery Type	LFP / LiFePO4 (Lithium Iron Phosphate)			
Specifications	3.2 V / 39 Ah			
Rated Energy	11.9 kWh	15.9 kWh	19.9 kWh	19.9 kWh
Number of Modules	3	4	5	5
Rated Voltage	307.2 V	409.6 V	512 V	512 V
Voltage Range	240~350.4 V	320~467.2 V	400~584 V	400~584 V
Standard Charge/Discharge Current	40A / 40A			
Maximum Discharge Depth	90% DOD			
AC Output (On-Grid)				
Rated Output Power	10 kW	12 kW	15 kW	20 kW
Maximum Output Power	11 kVA	13.2 kVA	16.5 kVA	22 kVA
Rated Output Voltage	220/380V, 230/400V (3PH, N, PE)			
Grid Voltage Range	184~276 V			
Maximum Output Current	16 A	19 A	24 A	32 A
Output Frequency	50/60 Hz (45~54.9 / 54.9~65)			
Power Factor	1 (0.8 leading~0.8 lagging)			
THDi (Rated Power)	<3%			
Backup AC Output (EPS)				
Rated Output Power	10 kVA	12 kVA	15 kVA	20 kVA
Maximum Output Power	11kVA 60s, 15kVA Is	13.2kVA 60s, 18kVA 1s	16.5kVA 60s, 22.5kVA 1s	22kVA 60s, 30kVA Is
Maximum Output Current	16 A	19 A	24 A	32 A
Output Voltage	220/380V, 230/400V (3PH, N, PE)			
Output Frequency	50/60 Hz (±0.2%)			
THDu (Linear Load)	<3%			
Automatic Switching Time	<10ms			
General Data				
Maximum Efficiency	98.2%			
Protection	DC Lightning Protection, AC Lightning Protection, PV Reverse Polarity Protection, Battery Reverse Protection, Insulation Resistor Detection, Leakage Current Detection, Anti-island Protection, Grounding Fault, Input Overvoltage & Unervoltage, Output Overvoltage & Unervoltage, Input Over Current, Output Overcurrent, Overheat Protection			
Ingress Protection Rating	IP65			
Cycle Life	⩾6000 Cycles (25°C, 85% DOD) / ⩾10 Years			
Noise	<40 dB			
Temperature Range	-25~60°C			
Cooling Method	Smart Fan Cooling + Natural Cooling			
Relative Humidity	0~95%			
Altitude	⩽4000 m (>2000 m Derating)			
Display	LCD			
Communication	RS485 (Standard); Wi-Fi, GPRS, Ethernet (Optional)			
Standards and Certifications	CE/IEC62109/IEC62619/UN38.3			
Weight	198 kg	244 kg	290 kg	290 kg
Dimensions (WxDxH)	650x360x1450 mm	650x360x1650 mm	650x360x1850 mm	650x360x1850 mm

HAS-3K5020/5K8020

All-In-One Off-Grid Energy Storage System

3kVA / 5kVA

- ✓ Compatible with different batteries, perfect protection function and strong environmental adaptability
- ✓ Wide DC input voltage range design
- ✓ Fully digital voltage and current double closed-loop control, advanced SPWM technology, output pure sine wave
- ✓ With two output modes of mains power bypass and inverter output, with UPS function
- ✓ Full power UPS function, staged SOC design
- ✓ Charging mode optional: utility/solar power priority, solar charging, hybrid charging
- ✓ Power saving mode function; reduces no-load loss
- ✓ Integrated design, built-in controller, inverter, battery and BMS
- ✓ With lithium-ion battery activation function, supports lead-acid battery, colloid battery




Villa


Hotel


Residential electricity


Hospital


Museum


No electricity area


Farm

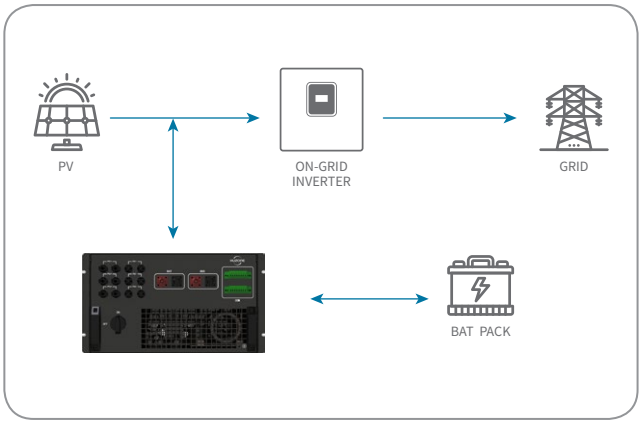
Technical Data	HAS-3K5020	HAS-5K8020
PV Input		
Maximum Input Power	2.8 kW	4.5 kW
MPPT Voltage Range	60~145 V	
Rated Input Voltage	105 V	
Number Of MPPT	1	1+1
Maximum Charging Current By PV	50 A	40+40 A
Battery (Built-in)		
Battery Type	Lithium	
Rated Input Voltage	48 V	
Voltage Range	45~60 V	
No Load Loss	<1 A	
Rated Energy	5.12 kWh	10.24 kWh
AC Input (Bypass)		
Rated Voltage	220 V	
Input Voltage Range	185~280 V ±2%	
Input Frequency	50/60 Hz (47~55 / 57~65)	
Overload Current	40 A	
Maximum Charging Current By Bypass	20 A	
Maximum Charging Current By PV	50 A	40+40 A
AC Output		
Rated Input Power	3 kVA	5 kVA
Peak Output Power	5 kVA	8 kVA
Output Voltage	220 V ±5%	
Output Frequency	50/60 Hz ±1%	
Output Waveform	Sine Wave	
THDi (Rated Power)	<3%	
Peak Efficiency	>90%	
Overload Capacity	120%, 60s / 150%, 10s	
General Data		
Ingress Protection Rating	IP20	
Noise	⩽55 dB	
Temperature Range	-20~45°C	
Relative Humidity	5%~95%, Non-condensing	
Altitude	⩽5000 m (>1000 m Derating)	
Cooling Method	Smart Fan Cooling	
Isolation Method	High Frequency Transformer	
Display	LCD+LED	
Communication	RS485-RTU	
Weight	75 kg (U-Box: 15 kg)	120 kg (U-Box: 15 kg)
Dimensions (WxDxH)	600x550x720 mm (U-Box: 482x133x462 mm)	600x550x920 mm (U-Box: 482x133x462 mm)

HDC-20/30K-TL-C

Commercial DC/DC Converter Module

20kW / 30kW

- ✓ Compatible with different batteries, perfect protection function & strong environmental adaptability
- ✓ Wide DC input voltage range design
- ✓ Two-way energy flow, fast switching between charge and discharge
- ✓ Interleaved parallel, reduce capacitor ripple, improve service life
- ✓ Maximum efficiency up to 99%
- ✓ Intelligent DSP digital control, data processing higher accuracy and faster speed
- ✓ Modular design, supports expansion




Microgrid


Communication base station


Factory

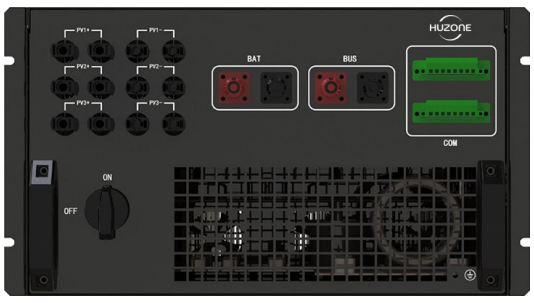

PV power station


Mall


Hybrid charging


Hotel

Technical Data	HDC-20K-TL-C	HDC-30K-TL-C
PV Input		
Maximum Input Power	20 kW	30 kW
Maximum Input Voltage	900 V	
MPPT Voltage Range	250~900 V	
Number Of MPPT / Strings Per Channel	3/6	
Maximum Input Power Per MPPT	6.5 kW	10 kW
Maximum Input Current Per MPPT	25 A	
Battery Input		
Battery Type	Lithium, Lead-Acid, Lead-Carbon, etc.	
Voltage Range	250~650 V	
General Data		
Maximum Efficiency	99%	
Protection	Reverse Polarity Protection, Overvoltage & Undervoltage Protection, Overcurrent Protection, Short Circuit Protection, Surge Protection	
Ingress Protection Rating	IP20	
Temperature Range	-30~55°C	
Relative Humidity	0~95%, Non-condensing	
Altitude	⩽4000 m (>3000 m Derating)	
Cooling Method	Fan Cooling	
Communication	Ethernet, RS485	
BMS Communication	RS485, CAN	
Communication Protocol	Modbus RTU/TCP	
Weight	40 kg	
Dimensions (WxDxH)	483x650x240 mm	



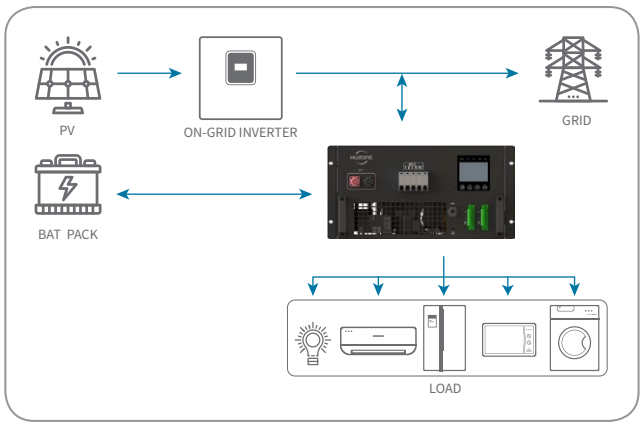
HIA-30~60K-TL-P

Commercial AC-Coupled Inverter

High Frequency

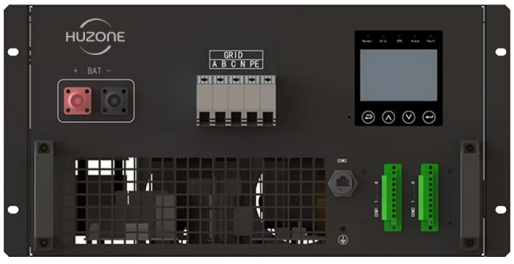
30kW / 50kW / 60kW

- ✓ Compatible with different batteries, perfect protection function and strong environmental adaptability
- ✓ Wide DC input voltage range design
- ✓ Local EMS function integrated
- ✓ Three-phase 100% unbalanced load, strong load adaptability
- ✓ Intelligent DSP digital control, data processing higher accuracy and faster speed
- ✓ Modular design, supports expansion
- ✓ Adopts three-level topology, maximum efficiency up to 98%, better power quality
- ✓ Supports anti-backflow function (optional)
- ✓ Seamless switching between on-grid and off-grid (optional)



Microgrid | Communication base station | Factory | Farm | Mall | Hospital | Hotel

Technical Data	HIA-30K-TL-P	HIA-50K-TL-P	HIA-60K-TL-P
Battery Input			
Battery Type	Lithium, Lead-Acid, Lead-Carbon, etc.		
Voltage Range	250~650 V		
AC Output (On-Grid)			
Rated Output Power	30 kW	50 kW	60 kW
Maximum Output Power	33 kVA	55 kVA	66 kVA
Maximum Output Current	43 A	72 A	86 A
Rated Grid Voltage	230/400V (3PH, N, PE)		
Rated Grid Frequency	50/60 Hz (±5%)		
THDi (Rated Power)	<3%		
DC Component	<0.5% In		
AC Output (Off-Grid)			
Rated Output Power	30 kW	-	-
Maximum Output Power	33 kVA	-	-
Overload Capacity	110% Long Run	-	-
Rated Output Voltage	230/400V (3PH, N, PE)	-	-
Rated Output Frequency	50/60 Hz	-	-
THDu (Linear Load)	<3%	-	-
Unbalanced Load	100%	-	-
General Data			
Maximum Efficiency	98%	98.6%	98.6%
Protection	DC Reverse Polarity Protection, AC Short Circuit Protection, Leakage Current Protection, Grid Monitoring, Anti-island Protection, Surge Protection		
Ingress Protection Rating	IP20		
Temperature Range	-30~55°C (>45°C Derating)		
Relative Humidity	0~95%, Non-condensing		
Altitude	⩽4000 m (>3000 m Derating)		
Cooling Method	Smart Fan Cooling		
Isolation Transformer	No		
Communication	Ethernet, RS485		
BMS Communication	RS485, CAN		
Communication Protocol	Modbus RTU/TCP		
Display	Touch Screen		
Weight	40 kg		
Dimensions (WxDxH)	483x650x240 mm		



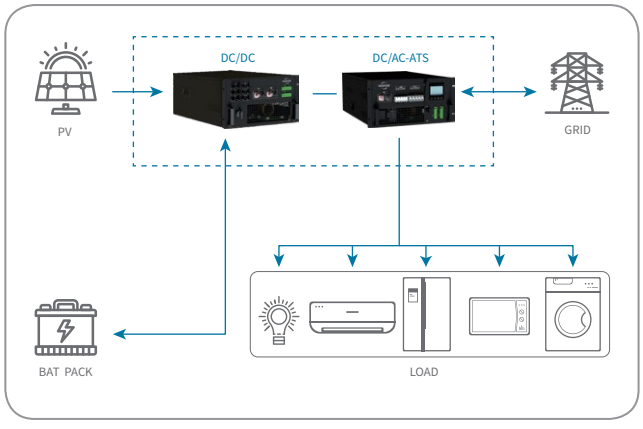
HIH-20/30K-TL

Commercial Hybrid Inverter

High Frequency

20kW / 30kW

- ✓ With ATS module, it supports seamless switching between off-grid and grid connection, wide DC voltage input, compatible with different batteries
- ✓ Multiple working modes design, supports online switching, flexible allocation of the charging and load source in priority
- ✓ Three-phase 100% unbalanced load, strong load adaptability
- ✓ Multi-channel PV MPPT access to improve power generation utilization
- ✓ Refined battery management, supports constant voltage, constant current, constant power charge and discharge mode
- ✓ Modular design, convenient for multiple parallel screens
- ✓ Adopts three-level topology, maximum efficiency up to 98.6%, better power quality




Microgrid


Communication base station


Factory


Farm


Mall


Hospital


Hotel

Technical Data	HIH-20K-TL	HIH-30K-TL
PV Input		
Maximum Input Power	20 kW	30 kW
Maximum Input Voltage	900 V	
MPPT Voltage Range	250~900 V	
Number Of MPPT / Strings Per Channel	3/6	
Maximum Input Power Per MPPT	6.5 kW	10 kW
Maximum Input Current Per MPPT	25 A	
Battery Input		
Battery Type	Lithium, Lead-Acid, Lead-Carbon, etc.	
Voltage Range	250~650 V	
AC Output (On-Grid)		
Rated Output Power	20 kW	30 kW
Maximum Output Power	22 kVA	33 kVA
Rated Grid Voltage	230/400V (3PH, N, PE)	
Rated Grid Frequency	50/60 Hz	
AC Output (Off-Grid)		
Rated Output Power	20 kW	30 kW
Maximum Output Power	22 kVA	33 kVA
Overload Capacity	110% Long Run	
Rated Output Voltage	230/400V (3PH, N, PE)	
Rated Output Frequency	50/60 Hz	
THDi (Linear Load)	<3%	
Unbalanced Load Capacity	100%	
General Data		
Maximum Efficiency	98.6%	
Protection	AC Short Circuit Protection, Polarity Reverse Protection, Surge Protection (PV+Grid Side+Load)	
Ingress Protection Rating	IP20	
Temperature Range	-30~55°C	
Relative Humidity	0~95%, Non-condensing	
Altitude	⩽4000 m (>3000 m Derating)	
Cooling Method	Forced Air Cooling	
Combination Mode	1 (DC/DC) + 1 (DC/AC/ATS)	
Isolation Transformer	No	
Communication	Ethernet, RS485	
BMS Communication	RS485, CAN	
Communication Protocol	Modbus RTU/TCP	
Standby Consumption	<50 W	
Display	Touch Screen	
Weight	40 kg + 40 kg	
Dimensions (WxDxH)	436x240x650 + 436x240x650 mm	

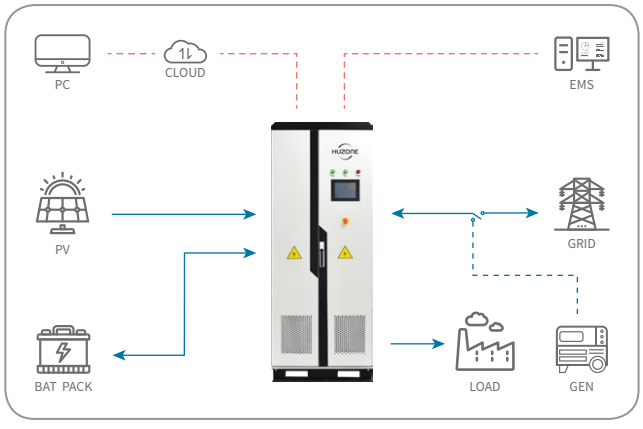
HIH-30~150K-TT

Commercial Hybrid Inverter

Built-in Transformer

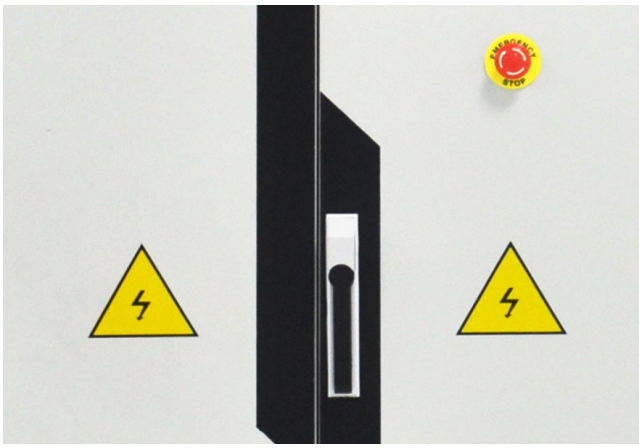
30kW / 50kW / 60kW / 100kW / 125kW / 150kW

- ✓ Multi-channel PV MPPT access to improve power generation utilization
- ✓ Power frequency topology, industrial design
- ✓ Wide DC input voltage range design, compatible with different batteries
- ✓ High-performance DSP, optimized control circuit design, better performance
- ✓ Intelligent management control strategy, multiple working modes, online or remote switching
- ✓ Cold start with load, three-phase 100% unbalanced load, strong load adaptability
- ✓ Supports diesel generator access, seamless switching between on-grid and off-grid (optional)
- ✓ AC and DC dual power backup, ensure the power supply of the control system



Microgrid | PV power station | Factory | Mine | Farm | Hospital | Hotel

Technical Data	HIH-30K-TT	HIH-50K-TT	HIH-60K-TT	HIH-100K-TT	HIH-125K-TT	HIH-150K-TT
PV Input						
Maximum Input Voltage	850 V					
MPPT Voltage Range	600~850 V					
Number of MPPT	3					
Maximum Input Power Per MPPT	10 kW	20 kW		30 kW		
Battery Input						
Battery Type	Lithium, Lead-Acid, Lead-Carbon, etc.					
Voltage Range	320~600 V			400~600 V		
AC Output (On-Grid)						
Rated Output Power	30 kW	50 kW	60 kW	100 kW	125 kW	150 kW
Maximum Output Power	33 kVA	55 kVA	66 kVA	110 kVA	137 kVA	165 kVA
Rated Grid Voltage	230/400 V (3PH, N, PE)					
Rated Grid Frequency	50/60 Hz					
AC Output (Off-Grid)						
Rated Output Power	30 kW	50 kW	60 kW	100 kW	125 kW	150 kW
Maximum Output Power	33 kVA	55 kVA	66 kVA	110 kVA	137 kVA	165 kVA
Overload Capacity	110%, 10min / 120%, 1min					
Rated Grid Voltage	230/400V (3PH, N, PE)					
Rated Grid Frequency	50/60 Hz					
THDi (Rated Power)	<3%					
Unbalanced Load Capacity	100%					
General Data						
Maximum Efficiency	92%	93%		94%		
Protection	AC Short Circuit Protection, DC Reverse Polarity Protection, Surge Protection (PV-side & Grid-side)					
Ingress Protection Rating	IP20					
Isolation Transformer	Yes					
Temperature Range	-30~55°C					
Cooling Method	Forced Air Cooling					
Relative Humidity	0~95%, Non-condensing					
Altitude	⩽5000 m (>3000 m Derating)					
Display	Touch Screen					
Communication	Ethernet, RS485					
BMS Communication	RS485, CAN					
Communication Protocol	Modbus RTU/TCP					
Standby Consumption	<50 W					
Weight	650 kg	650 kg	800 kg	900 kg	1050 kg	1250 kg
Dimensions (WxDxH)	950x700x1953 mm			1200x800x2050 mm		



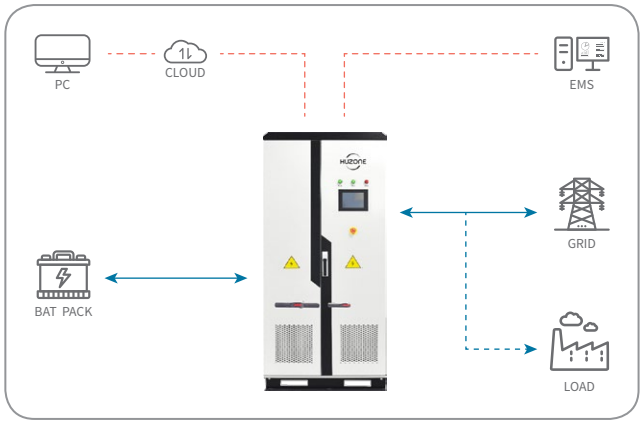
HPC-50~250K-TT

PCS (Power Conversion System)

Built-in Transformer

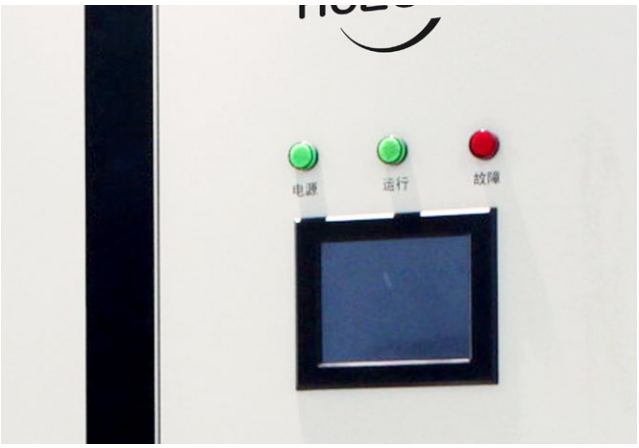
50kW / 100kW / 250kW

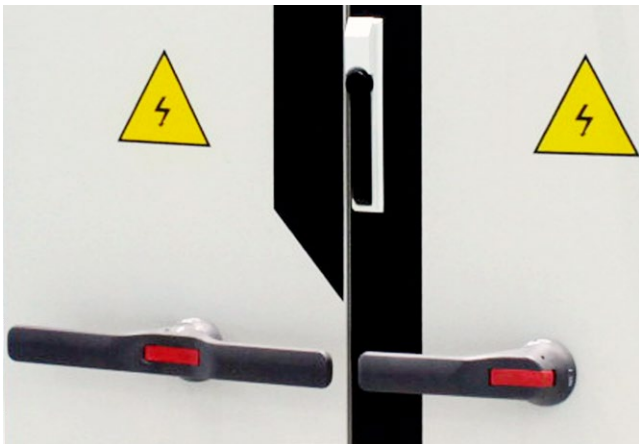
- ✓ Power frequency topology, industrial design
- ✓ AC and DC dual power backup, ensure the power supply of the control system
- ✓ High power density, maximum efficiency up to 97%
- ✓ High-performance DSP, optimized control circuit design, better performance
- ✓ Wide DC input voltage range design, compatible with different batteries
- ✓ Functions of grid connected charging and discharging and off-grid independent inverter
- ✓ Reactive power and active power are adjustable
- ✓ Supports diesel generator access, seamless switching between on-grid and off-grid (optional)
- ✓ Cold start with load, three-phase 100% unbalanced load, strong load adaptability
- ✓ Friendly grid adaptability, accept power grid dispatch
- ✓ Intelligent management control strategy, multiple working modes, online or remote switching



Microgrid | PV power station | Factory | Mine | Farm | Hospital | Hotel

Technical Data	HPC-50K-TT	HPC-100K-TT	HPC-250K-TT
DC Input			
Maximum Input Voltage	850 V		
Voltage Range	500~850 V		
AC Output (On-Grid)			
Rated Output Power	50 kW	100 kW	250 kW
Maximum Output Power	55 kVA	110 kVA	275 kVA
Maximum Output Current	79 A	159 A	397 A
Rated Grid Voltage	400 V		
Rated Grid Frequency	50/60 Hz (45~55 / 55~65)		
Power Factor (Rated Power)	>0.99		
THDi (Rated Power)	<3%		
Power Factor	1 (0.8 leading~0.8 lagging)		
Output System	3PH, N, PE		
AC Output (Off-Grid)			
Rated Output Power	50 kW	100 kW	250 kW
Maximum Output Power	55 kVA	110 kVA	275 kVA
Overload Capacity	110% Long Run		
Rated Output Voltage	400 V		
Rated Output Frequency	50/60 Hz		
THDu (Linear Load)	<3%		
Unbalanced Load Capacity	100%		
General Data			
Maximum Efficiency	96%		97%
Protection	DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature Protection		
Ingress Protection Rating	IP20		
Isolation Transformer	Yes		
Temperature Range	-30~55°C		
Cooling Method	Forced Air Cooling		
Relative Humidity	0~95%, Non-condensing		
Altitude	⩽5000 m (>3000 m Derating)		
Display	Touch Screen		
Communication	Ethernet, RS485		
BMS Communication	RS485, CAN		
Communication Protocol	Modbus, IEC104		
Standby Consumption	<50 W		
Weight	650 kg	750 kg	1600 kg
Dimensions (WxDxH)	1000x800x2015 mm		1000x1050x2260 mm





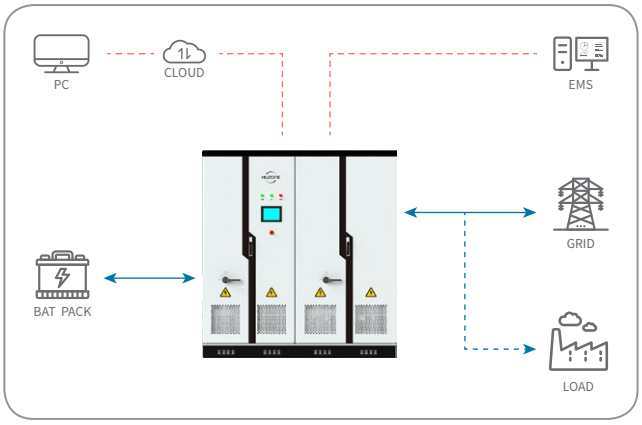
HPC-500/630K-TT

PCS (Power Conversion System)

Built-in Transformer

500kW / 630kW

- ✓ Power frequency topology, industrial design
- ✓ AC and DC dual power backup, ensure the power supply of the control system
- ✓ High power density, maximum efficiency up to 97.6%
- ✓ High-performance DSP, optimized control circuit design, better performance
- ✓ DC wide voltage input, compatible with different batteries
- ✓ Functions of grid connected charging and discharging and off-grid independent inverter
- ✓ Reactive power and active power are adjustable
- ✓ Supports diesel generator access, switching between on-grid and off-grid (optional)
- ✓ Cold start with load, three-phase 100% unbalanced load, strong load adaptability
- ✓ Friendly grid adaptability, accept power grid dispatch
- ✓ Intelligent management control strategy, multiple working modes, online or remote switching



Microgrid | PV power station | Wind power station | Industrial and commercial | Grid side | Hybrid charging

Technical Data	HPC-500K-TT	HPC-630K-TT
DC Input		
Maximum Input Voltage	850 V	
Voltage Range	500~850 V	630~850 V
AC Output (On-Grid)		
Rated Power	500 kW	630 kW
Maximum Output Power	550 kVA	693 kVA
Maximum Output Current	794 A	1000 A
Rated Grid Voltage	400 V	
Rated Grid Frequency	50/60 Hz (45~55 / 55~65)	
Power Factor (Rated Power)	>0.99	
THDi (Rated Power)	<3%	
Power Factor	1 (0.8 leading~0.8 lagging)	
Output System	3PH, N, PE	
AC Output (Off-Grid)		
Rated Output Power	500 kW	630 kW
Maximum Output Power	550 kVA	693 kVA
Rated Output Voltage	400 V	
Overload Capacity	110% Long Run	
Rated Output Frequency	50/60 Hz	
THDu (Linear Load)	<3%	
Unbalanced Load Capacity	100%	
General Data		
Maximum Efficiency	97.6%	
Protection	DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature Protection	
Ingress Protection Rating	IP20	
Isolation Transformer	Yes	
Temperature Range	-30~55°C	
Cooling Method	Forced Air Cooling	
Relative Humidity	0~95%, Non-condensing	
Altitude	⩽5000 m (>3000 m Derating)	
Display	Touch Screen	
Communication	Ethernet, RS485	
BMS Communication	RS485, CAN	
Communication Protocol	Modbus, IEC104	
Standby Consumption	<50 W	
Weight	3000 kg	3200 kg
Dimensions (WxDxH)	2100x1050x2260 mm	2400x1050x2260 mm

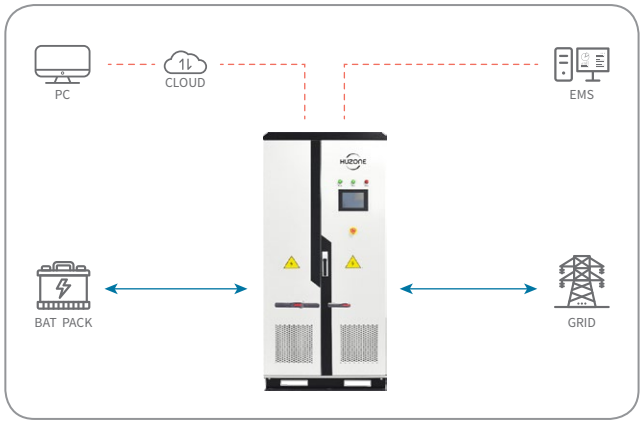
HPC-500/630K-TL

Centralized PCS (Power Conversion System)

Transformerless

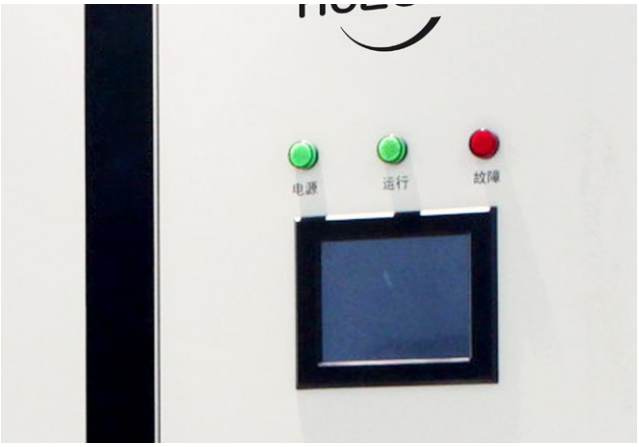
500kW / 630kW

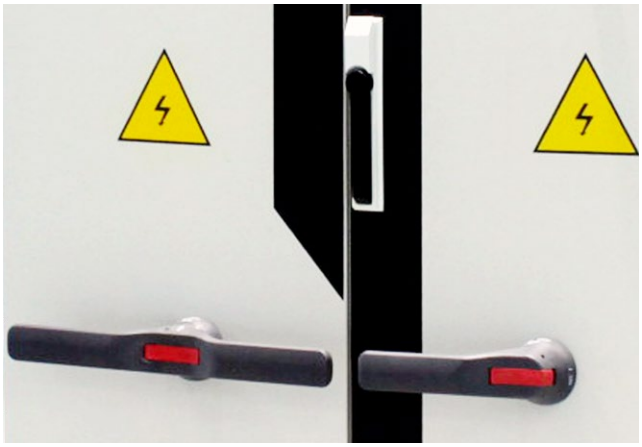
- ✓ Power frequency topology, industrial design
- ✓ AC and DC dual power backup, ensure the power supply of the control system
- ✓ High power density, maximum efficiency up to 98.2%
- ✓ High-performance DSP, optimized control circuit design, better performance
- ✓ DC wide voltage input, compatible with different batteries
- ✓ Functions of grid connected charging and discharging and off-grid independent inverter
- ✓ Reactive power and active power are adjustable
- ✓ Friendly grid adaptability, accept power grid dispatch
- ✓ Intelligent management control strategy, multiple working modes, online or remote switching



PV power station | Wind power station | Industrial and commercial | Grid side | Hybrid charging

Technical Data	HPC-500K-TL	HPC-630K-TL
DC Input		
Maximum Input Voltage	850 V	
Voltage Range	500~850 V	630~850 V
AC Output (On-Grid)		
Rated Power	500 kW	630 kW
Maximum Output Power	550 kVA	693 kVA
Maximum Output Current	1008 A	1053 A
Rated Grid Voltage	315 V	380 V
Rated Grid Frequency	50/60 Hz (45~55 / 55~65)	
Power Factor (Rated Power)	>0.99	
THDi (Rated Power)	<3%	
Power Factor	1 (0.8 leading~0.8 lagging)	
Output System	3PH, N, PE	
AC Output (Off-Grid)		
Rated Output Power	500 kW	630 kW
Maximum Output Power	550 kVA	693 kVA
Rated Output Voltage	280~330 V	350~400 V
Overload Capacity	110% Long Run	
Rated Output Frequency	50/60 Hz	
THDu (Linear Load)	<3%	
Unbalanced Load Capacity	100%	
General Data		
Maximum Efficiency	98.2%	
Protection	DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature Protection	
Ingress Protection Rating	IP20	
Isolation Transformer	No	
Temperature Range	-30~55°C	
Cooling Method	Forced Air Cooling	
Relative Humidity	0~95%, Non-condensing	
Altitude	⩽5000 m (>3000 m Derating)	
Display	Touch Screen	
Communication	Ethernet, RS485	
BMS Communication	RS485, CAN	
Communication Protocol	Modbus, IEC104	
Standby Consumption	<50 W	
Weight	1400 kg	1600 kg
Dimensions (WxDxH)	1000x900x2260 mm	



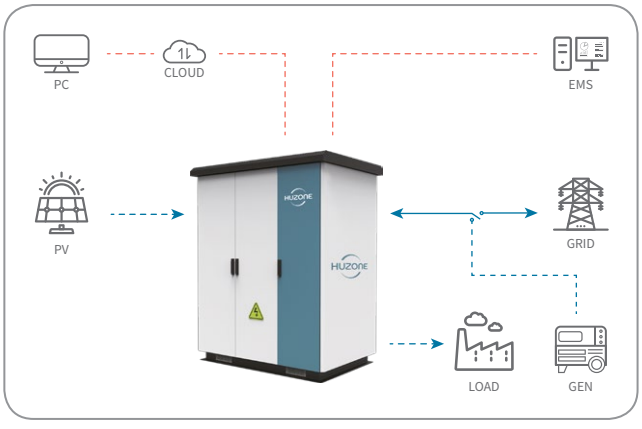


HOS-107H50~400H200

Outdoor Energy Storage System

107kWh / 200kWh / 400kWh

- ✓ Internally integrated BMS/EMS
- ✓ Modular design, supports multi-machine expansion function
- ✓ Multiple working modes for different applications
- ✓ Internal integration of multiple protection functions (lightning protection, fire protection, anti-theft, etc.)
- ✓ Switching between on-grid and off-grid
- ✓ Three-phase 100% unbalanced load



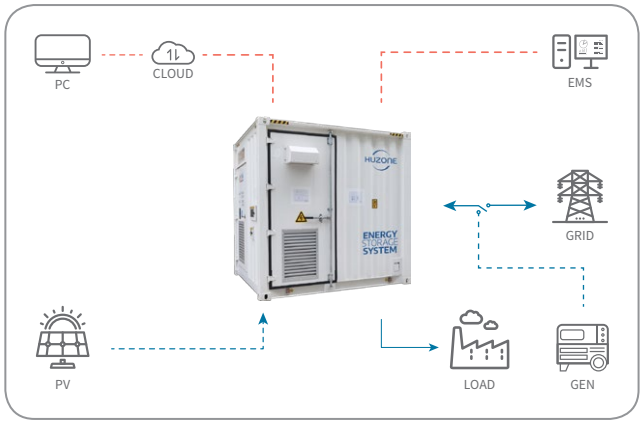
Microgrid | PV power station | Wind power station | Industrial and commercial | Grid side | Hybrid charging

Technical Data	HOS-107H50	HOS-200H100	HOS-400H200
Battery (Built-in)			
Battery Type	LFP / LiFePO4 (Lithium Iron Phosphate)		
Charge/Discharge Rate	⩽0.5C		
Rated Voltage	716.8 V		
Voltage Range	605~818 V		
Cell Rated Capacity	150 Ah	280 Ah	280 Ah
Rated Energy	107 kWh	200 kWh	400 kWh
Composition	1P224S	1P224S	(1P224S)x2
AC Output (On-Grid)			
Rated Output Power	50 kW	100 kW	200 kW
Maximum Output Current	79 A	159 A	159x2 A
Rated Grid Voltage	400 V (3PH, N, PE)		
Rated Grid Frequency	50/60 Hz (45~55 / 55~65)		
THDi (Rated Power)	<3%		
DC Component	<0.5% In		
Power Factor (Rated Power)	>0.99		
AC Output (Off-Grid)			
Rated Output Power	50 kW	100 kW	200 kW
Maximum Output Current	79 A	159 A	159x2 A
Rated Output Voltage	400 V (3PH, N, PE)		
Rated Output Frequency	50/60 Hz		
Unbalanced Load Capacity	100%		
General Data			
Ingress Protection Rating	IP54		
Temperature Range	-25~60°C		
Relative Humidity	0~95%, Non-condensing		
Altitude	⩽5000 m (>3000 m Derating)		
PCS Cooling Method	Smart Fan Cooling		
Battery Cooling Method	Air Conditioning Cooling		
Fire Fighting System	Yes		
Communication	RS485, CAN		
Communication Protocol	Modbus, IEC104		
Display	Touch Screen		
Weight	1200 kg	2200 kg	3500 kg
Dimensions (WxDxH)	1350x1050x2100 mm	1550x1050x2100 mm	2566x1050x2100 mm

HCS-10/20/40

Containerized Energy Storage System

10ft / 20ft / 40ft • 280Ah



- ✓ Integrated and standardized BESS container; easy to transport, install and maintain
- ✓ Modular design, supports system expansion
- ✓ Customizable in specifications according to customer requirements
- ✓ Top brand LFP cells with good lifespan over 10 years
- ✓ Comprehensive real-time monitoring and energy optimization management, fully guarantee the safety of the battery system
- ✓ Multiple working modes for different applications
- ✓ Intelligent temperature control, automatic balance management, effectively improve battery efficiency and life
- ✓ Unattended, convenient EMS access, online real-time system monitoring
- ✓ Supports diesel generator access, switching between on-grid and off-grid (optional)
- ✓ Three-phase 100% unbalanced load, strong load adaptability (optional)

Microgrid | PV power station | Wind power station | Industrial and commercial | Grid side | Hybrid charging

Technical Data	HCS-10-215 (10ft)	HCS-10-430 (10ft)	HCS-20-1000 (20ft)
Battery (Built-in)			
Battery Type	LFP / LiFePO4 (Lithium Iron Phosphate)		
Battery Cell	3.2V / 280Ah		
Battery Cell Combination	1P240S	(1P240S)x2	(1P224S)x5
Nominal Capacity	215 kWh	430 kWh	1000 kWh
Nominal Voltage	768 V		716.8 V
Voltage Range	672~876 V		627.2~806.4 V
Charge/Discharge Rate	⩽0.5C		
AC Output			
Rated Charge/Discharge Power	100 kVA		500 kVA
Maximum Output Current	159 A		759 A
Rated Output Voltage	400 V		380 V
Rated Output Frequency	50/60 Hz		50 Hz
General Data			
Ingress Protection Rating	IP54		
Communication	CAN, RS485		CAN, RS485, Ethernet
Communication Protocol	Modbus, IEC104		Modbus TCP, Modbus RTU, CAN2.0
Temperature Range	-25~50°C		-30~50°C (>45°C Derating)
PCS Cooling Method	Smart Fan Cooling		
Battery Cooling Method	Liquid Cooling		Smart Air Cooling
Fire Fighting System	1230 Fire Fighting System		Aerosol, Combustible Gas Detection + Exhaust, Water Fire Protection (Optional)
Relative Humidity	0~95%, Non-condensing		
Altitude	⩽2000 m		
Weight	6500 kg	8500 kg	20000 kg
Dimensions (WxDxH)	2991x2438x2896 mm		6058x2591x2438 mm

Technical Data	HCS-40-3440 (40ft)	HCS-40-5017 (40ft)
Battery (Built-in)		
Battery Type	LFP / LiFePO4 (Lithium Iron Phosphate)	
Battery Cell	3.2V / 280Ah	
Battery Cell Combination	9P416S	14P400S
Nominal Capacity	3440 kWh	5017 kWh
Rated Voltage	1228.8 V	1280 V
Voltage Range	960~1401.6 V	1000~1460 V
Charge/Discharge Rate	⩽0.5C	
Maximum Discharge Depth	90% DOD	
General Data		
Ingress Protection Rating	IP54	
Communication	CAN 2.0, RS485, Ethernet	
Communication Protocol	CAN, Modbus	
Temperature Range	-20~55°C	
Battery Temperature Control	Industrial-grade Temperature Controlled Air Conditioner	
PCS Cooling Method	Smart Fan Cooling	
Fire Fighting System	Heptafluoropropane + Water Fire Extinguishing System	
Relative Humidity	5~95%	
Altitude	⩽2000 m	
Weight	35000 kg	45000 kg
Dimensions (WxDxH)	9900x2438x2896 mm	13716x2438x2896 mm

Notes

SMART ENERGY SOLUTIONS

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