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**Portfolio & Solution
Product Manual**



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ZHEJIANG HIITIO NEW ENERGY CO.,LTD.

ZHEJIANG HIITIO NEW ENERGY CO.,LTD.(referred to as "HIITIO ") is headquartered in Hangzhou, Zhejiang Province in China. It is a high-tech renewable energy company that focuses on smart PV & ESS, integrates research & development, manufacturing, and sales. Its core products include photovoltaic inverters (microinverters, string inverters, and hybrid inverters), portable power station, residential and C&I energy storage systems, and the intelligent energy management systems, etc. HXYiPOWER is committed to providing customers with smart energy overall solutions for multiple scenarios including residential and commercial industries.

HIITIO emphasis on R&D investment and innovation. The core team has more than 10 years of industry experience and has deep expertise in power electronics to pology, core algorithms, BMS, EMS, AI, and other fields. By integrating AI technology with green energy, the team aims to construct products and systems that are extremely safe, stable, reliable, efficient, and convenient. The company's collaborative laboratory has obtained the national CNAS accreditation and IEC CTF2 qualification. Its products have passed certification and testing by many authoritative international institutions, including TÜV, CSA, BV, SGS, etc.

HIITIO has a global sales and service network, covering Europe, North America, Latin America, Oceania, Asia Pacific, the Middle East, and Africa, the company is committed to provide fast, efficient, and high-quality services to global customers. In the future, HXYiPOWER will uphold the mission of " Serve global customers and enjoy green energy", adhere to the core values of " Quality, Innovation, Efficiency, Win-win", and promote the sustainable development of global clean energy to become a leading provider of smart energy solutions worldwide.

10⁺
Years
Industry Experience
of R&D

50⁺
Items
Core Technology Invention
Patent

70⁺
Percent
Core R&D Technical
Personnel

100⁺
Sales
Sales and service countries
and regions

Strict Quality Control

Quality Assurance

Professional Team

Internationalized professional team with dozens of well-known and outstanding designers.
Hundreds of industry experts, 50+ invention patents, 30+ independent research and development of project core technologies.



Ecological Construction

Select first-class brands for key components such as main control and power unit.

Test Specification

40+ Key performance testing, reliability testing, competitor benchmarking testing, etc.



First-class Production Line

A first-class production base and fully automated production line ensure quality control and stable supply.



Advanced Experiment

Complete and complete testing instruments, professional and complete experimental system.

Residential Energy Storage Solution



Making power management more Efficient, Safe and Intelligent



PV power generation covers daytime electricity consumption

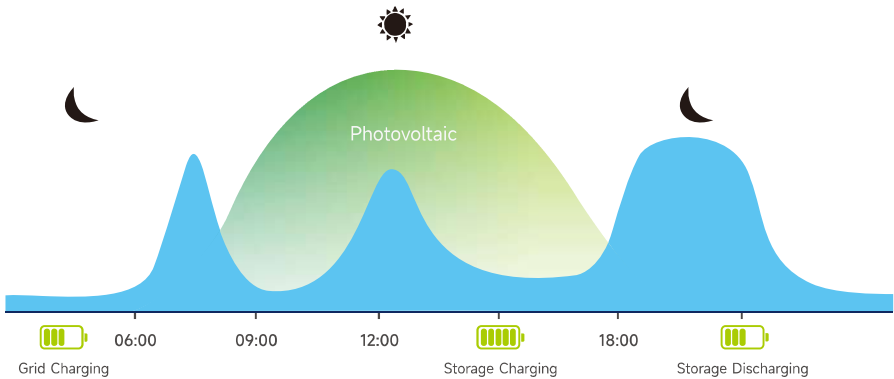


Energy storage power covers nighttime electricity consumption



Ensure the normal operation of key household appliances during power outages







HYBRID INVERTER

HC-H3K/3K6/4K/4K6/5K/6K/8K-HS

Reliable

- Type II surge protection
- IP65, C4 salt spray design
- Support AFCI and RSD, ultimate peace of mind

Efficient

- 160% PV oversizing, 150% backup turbo output
- 80~490V wide battery voltage range, 35A fast charge/discharge
- 16A PV current wide adaptation

Simple

- 30mins quick installation
- Easy working mode, set and forget
- Automatic ON/OFF-Grid switching time <10ms

Intelligent

- Smart working logic
- Generator&heat pump control
- Mobile & PC platform management

Product Model	HC-H3K-HS	HC-H3K6-HS	HC-H4K-HS	HC-H4K6-HS	HC-H5K-HS	HC-H6K-HS	HC-H8K-HS
PV Input							
Max. Array Power	6,000W	7,200W	8,000W	9,200W	10,000W	12,000W	1,6000W
Max. Input Power	3,000W / 1,800W	3,600W / 2,160W	4,000W / 2,400W	4,600W / 2,760W	5,000W / 3,000W	5,000W / 4,600W	6,400W / 6,400W
Max. Input Voltage				600V			
Start-up Voltage				50V			
Mppt Operating Voltage Range				80 ~ 560V			
Max. Input Current				32A (16 / 16)			
Max. Short-circuit Current				48A (24 / 24)			
Number of MPP Trackers				2			
PV input number(Number of String Per MPPT)				2 (1 / 1)			
AC Input / Output							
Nominal Power	3,000W	3,600W	4,000W	4,600W	5,000W	6,000W	8,000W
Max. Apparent Power	3,300VA	4,000VA	4,400VA	5,060VA	5,500VA	6,600VA	8,800VA
Nominal Current	13.6A	16.3A	18.1A	20.9A	22.7A	27.2A	36.3A
Max. Current	15.0A	18.0A	20.0A	23.0A	25.0A	30.0A	40.0A
Nominal Voltage				1 / N / PE, 220 / 230 / 240V			
AC Voltage Range				154 ~ 276V			
THDi				< 3%			
Frequency				50 / 45-55Hz; 60 / 55-65Hz			
Adjustable Power Factor				0.8 leading...0.8 lagging			
DC Current Injection				< 0.5% In			
Back-Up(AC Output)							
Nominal Output Power	3,000VA	3,600VA	4,000VA	4,600VA	5,000VA	6,000VA	8,000VA
Max. Continues Output Apparent Power	3,300VA	4,000VA	4,400VA	5,060VA	5,500VA	6,600VA	8,000VA
Peak Output Power	4,500W; 10s	5,400W; 10s	6,000W; 10s	6,900W; 10s	7,500W; 10s	9,000W; 10s	9,600W; 10s
Max. Output Current	15.0A	18.0A	20.0A	23.0A	25.0A	30.0A	36.3A
Switch Time				< 10ms			
Battery							
Battery Type				LiFePO4			
Battery Voltage Range				80 ~ 490V			
Max. Charge/Discharge Current				35A			
Max. Charge/Discharge Power				8,000W			
Efficiency							
Max. Efficiency				98.60%			
European Weighted Efficiency				98.20%			
MPPT Efficiency				99.90%			
Battery Charge/ Discharge Efficiency				97.50%			
Protection							
DC Insulation Resistance Detection				Yes			
Residual Current Monitoring				Yes			
DC Reverse Polarity Protection				Yes			
DC/AC Surge Protection				Type II			
DC Switch				Yes			
Anti-islanding Protection				Yes			
AC Over Current Protection				Yes			
AC Short-circuit Protection				Yes			
AC Over Voltage Protection				Yes			
Grounded Fault Detection				Yes			
General Data							
Operating Temperature Range				-25 to + 60°C			
Relative Operating Humidity				0 ~ 100 %RH			
Max. Operating Altitude				4,000m			
Cooling				Natural Cooling			
Display				LED / App / Web			
Communication				CAN / RS485 / WIFI / 4G / LAN			
Weight				20kg			
Dimensions (W*H*D)				522*416*177.6mm			
Degree of Protection				IP65			
Mounting				Wall Mounted			



HYBRID INVERTER

HC-H5K/6K/8K/10K/12K-HT

Reliable

- Type II surge protection
- IP65, C4 salt spray design
- Support AFCI and RSD, ultimate peace of mind

Efficient

- 160% PV oversizing + 150% backup turbo output
- 150~600V wide battery voltage range, 40A fast charge/discharge
- 18A PV current wide adaptation

Simple

- 30mins quick installation
- Easy working mode, set and forget
- Automatic ON/OFF-Grid switching time <10ms

Intelligent

- Smart working logic
- Generator & heat pump control
- Mobile & PC platform management

Product Model	HC-H5K-HT	HC-H6K-HT	HC-H8K-HT	HC-H10K-HT	HC-H12K-HT
PV Input					
Max. Array Power	10,000W	12,000W	16,000W	20,000W	24,000W
Max. Input Power	5,000W / 3,000W	6,000W / 4,000W	6,400W / 6,400W	6,400W / 4,800W / 4,800W	6,400W / 6,400W / 6,400W
Max. Input Voltage	1,000V				
Start-up Voltage	160V				
MPPT Operating Voltage Range	140 - 980V				
Max. Input Current	36A (18 / 18)	36A (18 / 18)	36A (18 / 18)	54A (18 / 18*2)	54A (18 / 18*2)
Max. Short-circuit Current	60A (30 / 30)	60A (30 / 30)	60A (30 / 30)	90A (30 / 30*2)	90A (30 / 30*2)
Number of MPP Trackers	2				
PV input number(Number of String Per MPPT)	2 (1 / 1)	2 (1 / 1)	2 (1 / 1)	3 (1 / 2)	3 (1 / 2)
AC Input / Output					
Nominal Output Power	5,000W	6,000W	8,000W	10,000W	12,000W
Max. Output Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA	13,200VA
Max. Input Apparent Power	11,000VA	13,200VA	17,600VA	22,000VA	26,400VA
Nominal Output Current	7.6A	9.1A	12.2A	15.2A	18.2A
Max. Output Current	8.4A	10A	13.4A	16.7A	20A
Max. Input Current	16.7A	20A	26.7A	33.4A	40A
Nominal Output Voltage	3 / N / PE, 220 / 380V, 230 / 400V, 240 / 415V				
THDi	< 3%				
Frequency	45~55Hz; 55~65Hz				
Adjustable Power Factor	0.8 leading...0.8 lagging				
DC Current Injection	< 0.5% In				
Back-Up(AC Output)					
Nominal Output Power	5,000VA	6,000VA	8,000VA	10,000VA	12,000VA
Max. Continues Output Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA	13,200VA
Peak Output Power	7,500W; 10s	9,000W; 10s	12,000W; 10s	15,000W; 10s	15,000W; 10s
Nominal Output Current	7.6A	9.1A	12.2A	15.2A	18.2A
Max. Output Current	11.4A	13.7A	18.2A	22.8A	27.3A
Switch Time	< 10ms				
Battery					
Battery Type	LiFePO4				
Battery Voltage Range	150 - 600V				
Max. Charge/Discharge Current	40A				
Max. Charge/Discharge Power	5,500W	6,600W	8,800W	11,000W	13,200W
Efficiency					
Max. Efficiency	98.60%				
European Weighted Efficiency	98.20%				
MPPT Efficiency	99.90%				
Battery Charge/ Discharge Efficiency	97.50%				
Protection					
DC Insulation Resistance Detection	Yes				
Residual Current Monitoring	Yes				
DC Reverse Polarity Protection	Yes				
DC/AC Surge Protection	Type II				
DC Switch	Yes				
Anti-islanding Protection	Yes				
AC Over Current Protection	Yes				
AC Short-circuit Protection	Yes				
AC Over Voltage Protection	Yes				
Grounded Fault Detection	Yes				
General Data					
Operating Temperature Range	-30 to + 60°C				
Relative Operating Humidity	0 - 100 %RH				
Max. Operating Altitude	4,000m				
Cooling	Natural Cooling				
Display	LED / App / Web				
Communication	CAN / RS485 / WIFI / 4G / LAN				
Weight	34kg				
Dimensions (W*H*D)	542*478*186mm				
Degree of Protection	IP65				
Mounting	Wall Mounted				

HYBRID INVERTER

HC-H15K/20K/25K-HS

Reliable

- Type II surge protection
- IP65, C4 salt spray design
- Support AFCI and RSD, ultimate peace of mind

Efficient

- 160% PV oversizing, 150% backup turbo output
- 150~600V wide battery voltage range, 60A fast charge/discharge
- 20A PV current wide adaptation

Simple

- 30mins quick installation
- Easy working mode, set and forget
- Automatic ON/OFF-Grid switching time <10ms

Intelligent

- Smart working logic
- Generator & heat pump control
- Mobile & PC platform management



Product Model	HC-H15K-HT	HC-H20K-HT	HC-H25K-HT
PV Input			
Max. Array Power	30,000W	40,000W	50,000W
Max. Input Power	6,000W / 6,000W / 6,000W / 6,000W	8,000W / 8,000W / 8,000W / 8,000W	10,000W / 10,000W / 10,000W / 10,000W
Max. Input Voltage		1100V	
Start-up Voltage		160V	
MPPT Operating Voltage Range		140 - 1,000V	
Max. Input Current		80A (20*2 / 20*2)	
Max. Short-circuit Current		120A (30*2 / 30*2)	
Number of MPP Trackers		2	
PV input number (Number of String Per MPPT)		4 (2 / 2)	
AC Input / Output			
Nominal Input / Output Apparent Power	31,500VA / 15,000VA	42,000VA / 20,000VA	52,500VA / 25,000VA
Max. Input / Output Apparent Power	33,000VA / 16,500VA	44,000VA / 22,000VA	55,000VA / 27,500VA
Nominal Input / Output Current	47.8A / 22.8A	63.7A / 30.4A	79.5A / 37.9A
Max. Input / Output Current	50.0A / 25.0A	66.7A / 33.4A	83.4A / 41.7A
Nominal Output Voltage		3 / N / PE, 220 / 380V, 230 / 400V, 240 / 415V	
THDi		< 3%	
Output Voltage Range		304 - 476V	
Frequency		50 / 60Hz	
Adjustable Power Factor		0.8 leading.. 0.8 lagging	
DC Current Injection		< 0.5% In	
Back-Up(AC Output)			
Nominal Output Power	15,000W	20,000W	25,000W
Max. Continues Output Apparent Power	16,500VA	22,000VA	27,500VA
Peak Output Power	22,500W; 10s	30,000W; 10s	30,000W; 10s
Nominal Output Current	22.8A	30.4A	37.9A
Max. Output Current	34.1A	45.5A	56.9A
Switch Time		< 10ms	
Battery			
Battery Type		LiFePO4	
Battery Voltage Range		150 ~ 600V	
Max. Charge/Discharge Current		60A	
Max. Charge/Discharge Power	16,500W	22,000W	27,500W
Efficiency			
Max. Efficiency		98.60%	
European Weighted Efficiency		98.20%	
MPPT Efficiency		99.90%	
Battery Charge/ Discharge Efficiency		97.70%	
Protection			
DC Insulation Resistance Detection		Yes	
Residual Current Monitoring		Yes	
DC Reverse Polarity Protection		Yes	
DC/AC Surge Protection		Type II	
DC Switch		Yes	
Anti-islanding Protection		Yes	
AC Over Current Protection		Yes	
AC Short-circuit Protection		Yes	
AC Over Voltage Protection		Yes	
Grounded Fault Detection		Yes	
General Data			
Operating Temperature Range		-30 to + 60°C	
Relative Operating Humidity		0 ~ 100 %RH	
Max. Operating Altitude		4,000m	
Cooling	Natural Cooling	Fan Cooling	Fan Cooling
Display		LED / App / Web	
Communication		CAN / RS485 / PLC / WIFI / 4G / LAN	
Weight		45kg	
Dimensions (W*H*D)		658*523*220mm	
Degree of Protection		IP65	
Mounting		Wall Mounted	



HIGH VOLTAGE BATTERY

HC-E50/100/150/200-H2
HC-E300/400/500-H2

Safety

- Automotive grade battery
- Smog detecting+pressure relief valve, risk warning&precaution and ultimate protection
- Reliable IP65(PACK IP67), C4 design to satisfy multi-scenario applications

Performance

- 35A max charge/discharge current
- LiFePO₄ cell configuration, long cycle life (>6000)
- Optional heating module, wider application scenarios

Simplicity

- Handle-type module, flat modular design, space-saving
- Flexible stacking, efficient installation, plug and play
- Multiple and flexible power options (5-50KWh compatibility)

Intelligent

- All in one platform monitoring
- Remote adjustment mode
- Remote upgrade program supportable



Battery System	HC-E50-H2	HC-E100-H2	HC-E150-H2	HC-E200-H2	HC-E250-H2
Total Battery Capacity	5.3kWh	10.6kWh	15.9kWh	21.2kWh	26.5kWh
Usable Capacity ¹	4.5kWh	9kWh	13.5kWh	18kWh	22.5kWh
Nominal Voltage	102.4V	204.8V	307.2V	409.6V	512V
Working Voltage	86.4 ~ 115.2V	172.8 ~ 230.4V	259.2 ~ 345.6V	345.6 ~ 460.8V	432 ~ 576V
Nominal Output Power	3.0kW	6.0kW	9.0kW	12.0kW	15.0kW
Cell Type	LiFePO4				
Max. Charging/Discharging Current	35A				
SOC Indicator	4*LED (25%, 50%, 75%, 100%)				
State Indicator	2*LED (work, alarm)				
Communication	CAN, RS485				
Working Temperature	-10 to +50°C (heating version -20 to +50°C)				
Ingress Protection Rating	IP65 (PACK IP67)				
Working Humidity	5 ~ 95%RH				
Working Altitude	< 4,000m				
Calendar Life	> 6,000 (70%EOL)				
Dimensions (W*H*D)	700*600*200mm	700*1000*200mm	700*1350*200mm	700*1700*200mm	700*2050*200mm
Net Weight	58.6kg	102.6kg	146.6kg	190.6kg	234.6kg
Alarms	Over charge / Over discharge/Over current / Over temperature / Short Circuit				
Warranty	10 years				

1: Test conditions: 100% depth of discharge, 0.2C rate charge & discharge at 25°C, at the beginning of service life.



Battery System	HC-E300-H2	HC-E400-H2	HC-E500-H2
Total Battery Capacity	31.8kWh	42.4kWh	53kWh
Usable Capacity¹	27kWh	36kWh	45kWh
Nominal Voltage	307.2V	409.6V	512V
Working Voltage	259.2 ~ 345.6V	345.6 ~ 460.8V	432 ~ 576V
Nominal Output Power	18.0kW	24.0kW	30.0kW
Cell Type		LifePO4	
Max. Charging/Discharging Current		35A	
SOC Indicator		4*LED (25%, 50%, 75%, 100%)	
State Indicator		2*LED (work, alarm)	
Communication		CAN, RS485	
Working Temperature		-10 to +50°C (heating version -20 to +50°C)	
Ingress Protection Rating		IP65 (PACK IP67)	
Working Humidity		5 ~ 95%RH	
Working Altitude		< 4,000m	
Calendar Life		> 6,000 (70%EOL)	
Dimensions (W*H*D)	Master: 700*1400*200mm Slave: 700*1350*200mm	Master: 700*1750*200mm Slave: 700*1700*200mm	Master: 700*2100*200mm Slave: 700*2050*200mm
Net Weight	Master: 148.1kg Slave: 146.6kg	Master: 192.1kg Slave: 190.6kg	Master: 235.1kg Slave: 234.6kg
Alarms	Over charge / Over discharge/Over current / Over temperature / Short Circuit		
Warranty	10 years		

1: Test conditions: 100% depth of discharge, 0.2C rate charge & discharge at 25°C, at the beginning of service life.



ALL-IN-ONE / AC BATTERY

HC-E6/9/12/15K-HTA
HC-E6/9/12/15K-HTAC

- Simple**
- No meter any more
 - No distribution adjustment any more
 - Minimalist installation

- Reliable**
- Type II surge protection on both AC/DC
 - IP65,C4 salt spray design
 - AFCI + RSD,ultimate peace of mind

- Powerful**
- Full Load supported
 - 160% PV oversizing
 - Wakingup pure PV system when off-grid

- Flexible**
- Stackable one-piece design with quick-connect ports
 - Various power&capacity options to meet all scenarios
 - Compatible with any third party microinverter



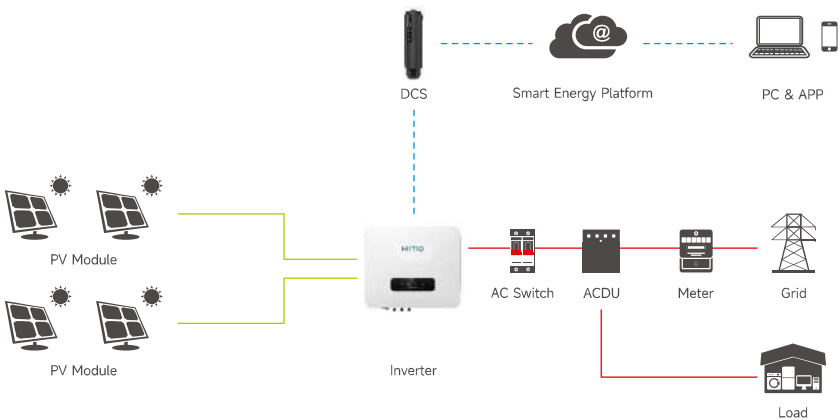
Product Model	HC-E6K-HTA/HTAC	HC-E9K-HTA/HTAC	HC-E12K-HTA/HTAC	HC-E15K-HTA/HTAC
System				
Hybrid Inverter	1			
Battery Module	2	3	4	5
Base	1			
PV Data (only for HTA, HTAC no PV)				
Max. Input Power (max input power of each string)	160% Rated 9,600W (3,200W/3,200W/3,200W)	160% Rated 14,400W (4,800W/4,800W/4,800W)	160% Rated 19,200W (6,400W/6,400W/6,400W)	160% Rated 24,000W (8,000W/8,000W/8,000W)
Max. Input Voltage	1,000V			
MPPT Operating Voltage Range	140 ~ 980V			
Start-Up Voltage	180V			
Max. Input Current	20A / 40A			
Max. Short Circuit Current	30A / 60A			
Number of MPPT	2			
PV Input Number (Number of String Per MPPT)	3 (1 / 2)			
AFCI (Arc Fault Circuit Interrupter)	Intergrated			
AC Data				
Grid Type	3/N/PE, 220V/380V, 230V/400V, 240V/415V			
Nominal Frequency	50Hz / 60Hz			
Max. Passthrough Current	63A			
Max. Apparent Power Output to Utility	6,600VA	9,900VA	13,200VA	16,500VA
Output Power Factor	0.8 leading ... 0.8 lagging			
THDI	<3%			
Battery				
Battery Type	LiFePO4			
Total Battery Capacity	10.6kWh	15.9kWh	21.2kWh	26.5kWh
Max. Continues Output Apparent Power	6,600W	9,900W	13,200W	16,500W
Max. Peak Output Power	7,000W, 10s	10,500W, 10s	14,000W, 10s	17,500W, 10s
Switch Time between on&off-grid	<10 ms			
General				
Operating Temperature	-20 to +50°C			
DC/AC Surge Arrester	AC/DC II/II			
Cooling Method	Natural Cooling			
Ingress Protection	IP65			
Dimensions (W*H*D)	730*1372*206mm	730*1747*206mm	730*2122*206mm	730*2497*206mm
Weight	152kg	202kg	252kg	302kg
Max. Operating Altitude	4000m			
Noise Emmission	<30 dB			
User Interface	LED / App / Web			
Communication	CAN / RS485 / WIFI / 4G / LAN / PLC			

Residential String PV Solution

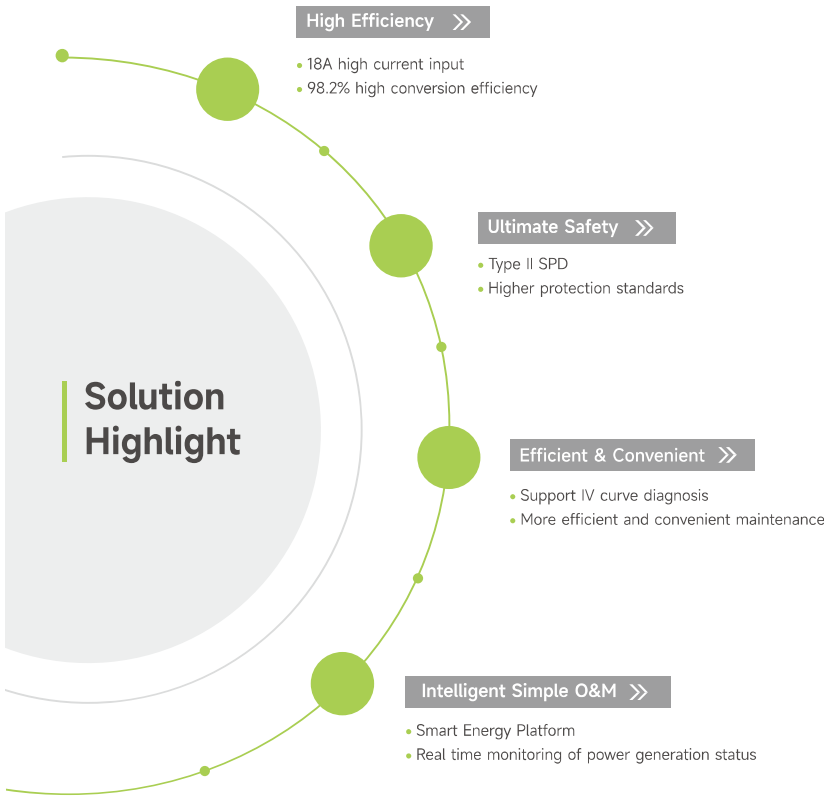


Making power management more Efficient, Safe and Intelligent

PV system generates power during daytime, and is used for self use. Surplus electricity connected to the grid to reduce residential electricity bills. PV system dose not generate power at night and use the power from grid to supply residential loads.



DC Cable AC Cable Communication





STRING INVERTER

HC-S3K/3K6/4K/4K6/5K/6K-S

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- 160% DC oversizing, wide MPPT voltage range
- 98.2% conversion efficiency
- 18A high current, compatible with major module types

Simple

- Minimalist and stylish product design
- Three-step quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	HC-S3K-S	HC-S3K6-S	HC-S4K-S	HC-S4K6-S	HC-S5K-S	HC-S6K-S
PV Input						
Max. Input Power	4,800W	5,760W	6,400W	7,360W	8,000W	9,600W
Max. Input Voltage				600V		
Nominal Input Voltage				360V		
Start-up Voltage				100V		
MPPT Operating Voltage Range				80 - 560V		
MPPT Full Load Voltage Range				200 - 500V		
Max. Input Current Per MPPT				18A		
Max. Short-Circuit Current				24A		
Number of MPP Trackers				2		
Max. Input Number Per MPP Tracker				1 / 1		
AC Output						
Nominal Output Power	3,000W	3,600W	4,000W	4,600W	5,000W	6,000W
Max. Apparent Power	3,300VA	3,960VA	4,400VA	5,060VA	5,500VA	6,600VA
Nominal Output Voltage				1 / N / PE, 220V / 230V / 240V		
Nominal AC Grid Frequency				50 / 60Hz		
Nominal Output Current	13.6A	16.4A	18.2A	20.9A	22.7A	27.3A
Max. Output Current	15.0A	18.0A	20.0A	23.0A	25.0A	30.0A
Adjustable Power Factor				0.8 leading...0.8 lagging		
THDi				< 3%		
Efficiency						
Max. Efficiency				98.2%		
European Weighted Efficiency				97.6%		
MPPT Efficiency				99.9%		
Protection						
Active Anti-islanding Protection				General Electric Frequency Shift		
Residual Current Monitoring				Yes		
DC Reverse Polarity Protection				Yes		
DC Switch				Yes		
AC Short-circuit Protection				Yes		
AC Overvoltage Protection				Yes		
AC Overcurrent Protection				Yes		
DC Surge Protection				Type II		
AC Surge Protection				Type II		
Ground Fault Detection				Yes		
AFCI				Yes		
General Data						
Operating Temperature Range				-25 to + 60°C		
Relative Operating Humidity				0 - 100 %RH		
Operating Altitude				4,000m		
Cooling				Natural Cooling		
Display				LED+App		
Communication				RS485 / 4G / WIFI		
Weight				11.6kg		
Dimensions (W*H*D)				340*360*136mm		
Topology				Non-Isolated		
Degree of Protection				IP66		
Overvoltage Level				PV II / AC III		



STRING INVERTER

HC-S7K/8K/9K/10K/12K-S

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- 160% DC oversizing, wide MPPT voltage range
- 98.3% conversion efficiency
- 20A large current, compatible with major module types

Simple

- Minimalist and stylish product design
- Three-step quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	HC-S7K-S	HC-S8K-S	HC-S9K-S	HC-S10K-S	HC-S12K-S
PV Input					
Max. Input Power	11,200W	12,800W	14,400W	16,000W	19,200W
Max. Input Voltage	600V				
Nominal Input Voltage	360V				
Start-up Voltage	80V				
MPPT Operating Voltage Range	40 - 560V				
MPPT Full Load Voltage Range	200 - 500V				
Max. Input Current Per MPPT	20A / 20A	20A / 20A	20A / 20A / 20A	20A / 20A / 20A	20A / 20A / 20A
Max. Short-Circuit Current	24A / 24A	24A / 24A	24A / 24A / 24A	24A / 24A / 24A	24A / 24A / 24A
Number of MPP Trackers	2	2	3	3	3
Max. Input Number Per MPP Tracker	1 / 1	1 / 1	1 / 1 / 1	1 / 1 / 1	1 / 1 / 1
AC Output					
Nominal Output Power	7,000W	8,000W	9,000W	10,000W	12,000W
Max. Apparent Power	7,700VA	8,800VA	9,900VA	11,000VA	13,200VA
Nominal Output Voltage	1 / N / PE, 220 / 230 / 240V				
Nominal AC Grid Frequency	50 / 60Hz				
Nominal Output Current	31.8A / 220V 30.4A / 230V 29.2A / 240V	36.4A / 220V 34.8A / 230V 33.3A / 240V	40.9A / 220V 39.1A / 230V 37.5A / 240V	45.5A / 220V 43.5A / 230V 41.7A / 240V	54.5A / 220V 52.2A / 230V 50A / 240V
Max. Output Current	35A / 220V 33.4A / 230V 32.1A / 240V	40A / 220V 38.3A / 230V 36.7A / 240V	45A / 220V 43A / 230V 41.3A / 240V	50A / 220V 47.9A / 230V 45.8A / 240V	60A / 220V 57.42A / 230V 55A / 240V
Adjustable Power Factor	0.8 leading...0.8 lagging				
THDi	< 3%				
Efficiency					
Max. Efficiency	98.3%				
European Weighted Efficiency	97.6%				
MPPT Efficiency	99.9%				
Protection					
Active Anti-islanding Protection	General Electric Frequency Shift				
Residual Current Monitoring	Yes				
DC Reverse Polarity Protection	Yes				
DC Switch	Yes				
AC Short-circuit Protection	Yes				
AC Overvoltage Protection	Yes				
AC Overcurrent Protection	Yes				
DC Surge Protection	Type II				
AC Surge Protection	Type II				
Ground Fault Detection	Yes				
AFCI	Yes				
General Data					
Operating Temperature Range	-30 to + 60°C				
Relative Operating Humidity	0 - 100 %RH				
Operating Altitude	4,000m				
Cooling	Natural Cooling				
Display	LED+App				
Communication	RS485 / 4G / WIFI				
Weight	23kg				
Dimensions (W*H*D)	522*416*162.5mm				
Topology	Non-Isolated				
Degree of Protection	IP66				
Overvoltage Level	PV II / AC III				
Optimizer Model	HYX-OP700				



STRING INVERTER

HC-S8K/10K/12K-T

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- 160% DC oversizing, 98.5% conversion efficiency, wide MPPT voltage range
- Support PLC communication and adapt to optimizer
- 18A large current, compatible with major module types

Simple

- Minimalist and stylish product design
- Three-step quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	HC-S8K-T	HC-S10K-T	HC-S12K-T
PV Input			
Max. Input Power	12,800W	16,000W	19,200W
Max. Input Voltage		1,100V	
Nominal Input Voltage		600V	
Start-up Voltage		160V	
MPPT Operating Voltage Range		140 - 1,000V	
MPPT Full Load Voltage Range		330 - 850V	
Max. Input Current Per MPPT		18A	
Max. Short-Circuit Current		24A	
Number of MPP Trackers		2	
Max. Input Number Per MPP Tracker		1 / 1	
AC Output			
Nominal Output Power	8,000W	10,000W	12,000W
Max. Apparent Power	8,800VA	11,000VA	13,200VA
Nominal Output Voltage		3L / N / PE, 220 / 380V, 230 / 400V	
Nominal AC Grid Frequency		50 / 60Hz	
Nominal Output Current	12.2A / 380V 11.5A / 400V	15.2A / 380V 14.4A / 400V	18.2A / 380V 17.3A / 400V
Max. Output Current	13.5A / 380V 12.7A / 400V	16.9A / 380V 15.8A / 400V	20.1A / 380V 19.1A / 400V
Adjustable Power Factor		0.8 leading...0.8 lagging	
THDi		< 3%	
Efficiency			
Max. Efficiency		98.5%	
European Weighted Efficiency		98.1%	
MPPT Efficiency		99.9%	
Protection			
Active Anti-islanding Protection		General Electric Frequency Shift	
Residual Current Monitoring		Yes	
DC Reverse Polarity Protection		Yes	
DC Switch		Yes	
AC Short-circuit Protection		Yes	
AC Overvoltage Protection		Yes	
AC Overcurrent Protection		Yes	
DC Surge Protection		Type II	
AC Surge Protection		Type II	
Ground Fault Detection		Yes	
AFCI		Yes	
General Data			
Operating Temperature Range		-30 to + 60°C	
Relative Operating Humidity		0 - 100 %RH	
Operating Altitude		4,000m	
Cooling		Smart Air Cooling	
Display		LED+App	
Communication		RS485 / 4G / WIFI	
Weight		21kg	
Dimensions (W*H*D)		522*416*162.5mm	
Topology		Non-Isolated	
Degree of Protection		IP66	
Overvoltage Level		PV II / AC III	
Optimizer Model		HYX-OP700	

STRING INVERTER

HC-S15K/17K/20K/25K-T

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- 160% DC oversizing, 98.5% conversion efficiency, wide MPPT voltage range
- Support PLC communication and adapt to optimizer
- 40A large current, compatible with major module types

Simple

- Minimalist and stylish product design
- Three-step quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging



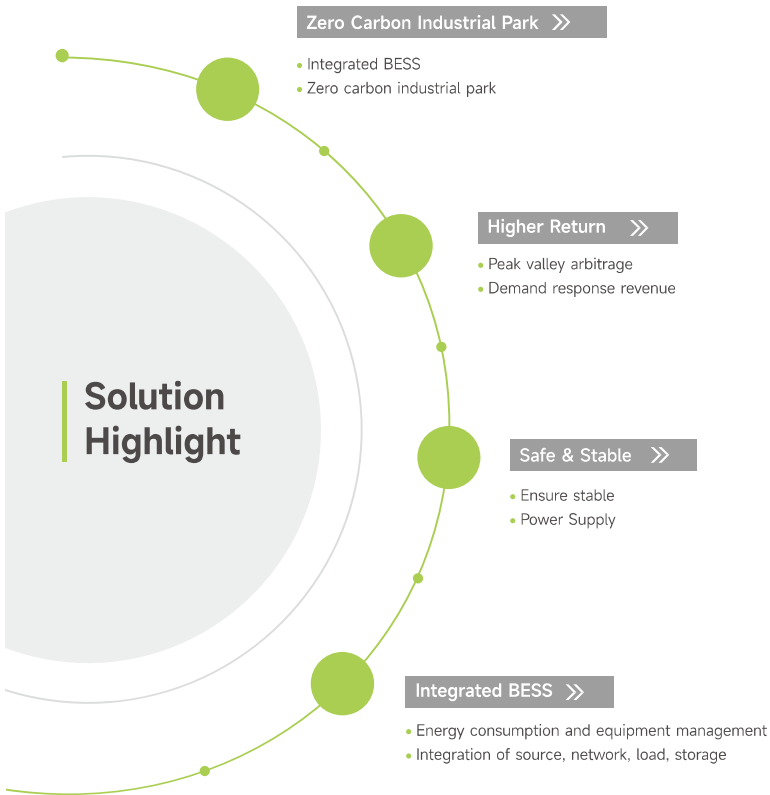
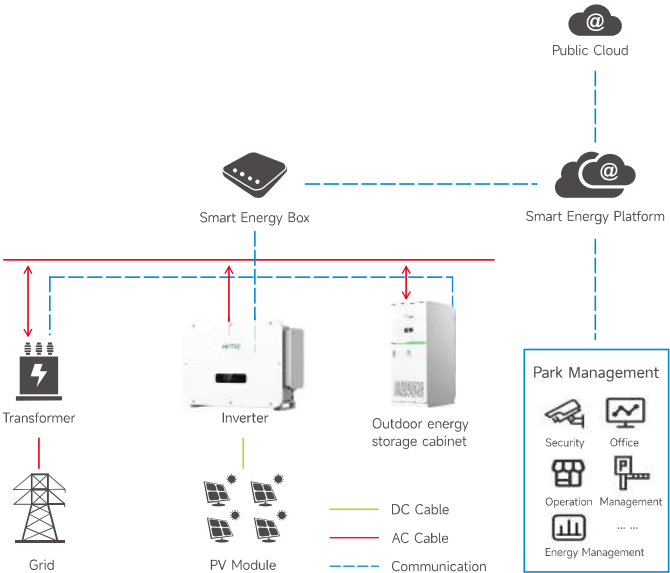
Product Model	HC-S15K-T	HC-S17K-T	HC-20K-T	HC-S25K-T
PV Input				
Max. Input Power	24,000W	27,200W	32,000W	40,000W
Max. Input Voltage			1,100V	
Nominal Input Voltage			600V	
Start-up Voltage			160V	
MPPT Operating Voltage Range			140 - 1,000V	
MPPT Full Load Voltage Range	192 - 850V	215 - 850V	250 - 850V	315 - 850V
Max. Input Current Per MPPT			40A	
Max. Input Current Per String			20A	
Max. Short-Circuit Current			50A	
Number of MPP Trackers			2	
Max. Input Number Per MPP Tracker			2 / 2	
AC Output				
Nominal Output Power	15,000W	17,000W	20,000W	25,000W
Max. Apparent Power	16,500VA	18,700VA	22,000VA	27,500VA
Nominal Output Voltage			3L / N / PE, 220 / 380V, 230 / 400V	
Nominal AC Grid Frequency			50 / 60Hz	
Nominal Output Current	22.8A / 380V 21.7A / 400V	25.8A / 380V 24.5A / 400V	30.4A / 380V 28.9A / 400V	38.0A / 380V 36.1A / 400V
Max. Output Current	25.2A / 380V 23.9A / 400V	28.6A / 380V 27.1A / 400V	33.6A / 380V 31.9A / 400V	42.0A / 380V 39.9A / 400V
Adjustable Power Factor			0.8 leading...0.8 lagging	
THDi			< 3%	
Efficiency				
Max. Efficiency			98.5%	
European Weighted Efficiency			98.2%	
MPPT Efficiency			99.9%	
Protection				
Active Anti-islanding Protection			General Electric Frequency Shift	
Residual Current Monitoring			Yes	
DC Reverse Polarity Protection			Yes	
DC Switch			Yes	
AC Short-circuit Protection			Yes	
AC Overvoltage Protection			Yes	
AC Overcurrent Protection			Yes	
DC Surge Protection			Type II	
AC Surge Protection			Type II	
Ground Fault Detection			Yes	
AFCI			Yes	
PID recovery			Optional	
General Data				
Operating Temperature Range			-30 to + 60°C	
Relative Operating Humidity			0 ~ 100 %RH	
Operating Altitude			4,000m	
Cooling			Smart Air Cooling	
Display			WLAN+App	
Communication			RS485 / 4G / WIFI	
Weight			27kg	
Dimensions (W*H*D)			519*426*192mm	
Topology			Non-Isolated	
Degree of Protection			IP66	
Overvoltage Level			PV II / AC III	
Optimizer Model			HYX-OP700	

C&I PV, ESS Solution



Making power management more Efficient, Safe and Intelligent

During the day, the PV power generation is self-consumed, store the excess power in the energy storage cabinet, Storage cabinet/grid provides power at night to achieve peak shaving and save electricity. It is suitable for regions with large peak and valley price difference for PV, ESS scenarios such as Manufacturing firm, campus, school, etc.





STRING INVERTER

HC-S30K/33K/36K/40K/50K-T

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- Built in PID recovery to reduce power generation loss
- Support PLC communication and adapt to optimizer
- 40A large current, compatible with major module types

Simple

- Support PLC communication
- Quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging

Product Model	HC-S30K-T	HC-S33K-T	HC-S36K-T	HC-S40K-T	HC-S50K-T
PV Input					
Max. Input Power	48kW	52.8kW	57.6kW	64kW	80kW
Max. Input Voltage			1,100V		
Nominal Input Voltage			600V		
Start-up Voltage			160V		
MPPT Operating Voltage Range			140 ~ 1,000V		
MPPT Full Load Voltage Range			450 ~ 850V		
Max. Input Current Per MPPT			40A		
Max. Input Current Per String			20A		
Max. Short-Circuit Current			50A		
Number of MPP Trackers	3	3	3	4	4
Max. Input Number Per MPP Tracker	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2 / 2	2 / 2 / 2 / 2
AC Output					
Nominal Output Power	30kW	33kW	36kW	40kW	50kW
Max. Apparent Power	33kVA	36.3kVA	39.6kVA	44kVA	55kVA
Nominal Output Voltage		3L / N / PE, 220 / 380V, 230 / 400V			
Nominal AC Grid Frequency			50 / 60Hz		
Nominal Output Current	45.6A / 380V 43.3A / 400V	50.2A / 380V 47.6A / 400V	54.7A / 380V 52A / 400V	60.8A / 380V 57.7A / 400V	76A / 380V 72.2A / 400V
Max. Output Current	50.2A / 380V 47.6A / 400V	55.2A / 380V 52.4A / 400V	60.2A / 380V 57.2A / 400V	66.9A / 380V 63.5A / 400V	83.6A / 380V 79.4A / 400V
Adjustable Power Factor			0.8 leading...0.8 lagging		
THDi			< 3%		
Efficiency					
Max. Efficiency			98.6%		
European Weighted Efficiency			98.1%		
MPPT Efficiency			99.9%		
Protection					
Active Anti-islanding Protection			General Electric Frequency Shift		
Residual Current Monitoring			Yes		
DC Reverse Polarity Protection			Yes		
DC Switch			Yes		
AC Short-circuit Protection			Yes		
AC Overvoltage Protection			Yes		
AC Overcurrent Protection			Yes		
DC Surge Protection			Type II		
AC Surge Protection			Type II		
Ground Fault Detection			Yes		
AFCI			Yes		
PID recovery			Optional		
General Data					
Operating Temperature Range			-30 to + 60°C		
Relative Operating Humidity			0 ~ 100 %RH		
Operating Altitude			4,000m		
Cooling			Smart Air Cooling		
Display			LED/ WLAN+App		
Communication			RS485 / 4G / WIFI / HPLC		
Weight			44kg		
Dimensions (W*H*D)			615*460*268.5mm		
Topology			Non-Isolated		
Degree of Protection			IP66		
Overvoltage Level			PV II / AC III		
Optimizer Model			HYX-OP700		

STRING INVERTER

HC-S100K/110K/120K-T

Reliable

- Type II surge protection
- 200m detection distance of AFCI, shutdown within 0.5 second at fastest
- IP66, suitable for harsh installation environment

Efficient

- Built in PID recovery to reduce power generation loss
- Support PLC communication and reduce the difficulty of construction
- 40A large current, compatible with major module types

Simple

- Support PLC communication
- Quick installation
- Rapid APP configuration, efficient and convenient

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging



Product Model	HC-S100K-T	HC-S110K-T	HC-S120K-T
PV Input			
Max. Input Voltage		1,100V	
Nominal Input Voltage		600V	
Start-up Voltage		160V	
MPPT Operating Voltage Range		140 - 1,000V	
Full-load MPPT Voltage Range		500 - 850V	
Max. Input Current Per MPPT		40A	
Max. Input Current Per String		20A	
Max. Short-Circuit Current		50A	
Number of MPP Trackers		10	
Max. Input Number Per MPPT Tracker		20	
AC Output			
Nominal Output Power	100kW	110kW	120kW
Max. Apparent Power	110kVA	121kVA	132kVA
Nominal Output Voltage		220 / 380V, 230 / 400V, 3L / N / PE	
Nominal AC Grid Frequency		50 / 60Hz	
Nominal Output Current	151.9A	167.1A	182.3A
Max. Output Current	167.2A	185.7A	190.5A
Adjustable Power Factor		>0.99 (0.8 leading...0.8 lagging)	
THDi		< 3%	
Efficiency			
Max. Efficiency		98.8%	
European Weighted Efficiency		98.3%	
MPPT Efficiency		99.9%	
Protection			
Active Anti-islanding Protection		General Electric Frequency Shift	
Residual Current Monitoring		Yes	
DC Reverse Polarity Protection		Yes	
DC Switch		Yes	
AC Short-Circuit Protection		Yes	
AC Overvoltage Protection		Yes	
AC Overcurrent Protection		Yes	
DC Surge Protection		Type II	
AC Surge Protection		Type II	
Ground Fault Detection		Yes	
AFCI		Yes	
PID recovery		Optional	
General Data			
Operating Temperature Range		-30 to + 60°C	
Relative Operating Humidity		0 ~ 100 %RH	
Operating Altitude		4,000m	
Cooling		Smart Air Cooling	
Display		LED / WLAN+App	
Communication		RS485 / 4G / WIFI / HPLC	
Weight		94kg	
Dimensions (W*H*D)		1000*730*375mm	
Topology		Non-isolated	
Degree of Protection		IP66	
Overvoltage Level		PV II / AC III	

STRING INVERTER

HC-S320K-HT

Reliable

- Type II surge protection
- Support smart connector-level detection and smart string-level disconnection
- IP66, suitable for harsh installation environment

Efficient

- Support PLC communication and reduce the difficulty of construction
- 75A large current, compatible with major module types

Simple

- Support active power fast response, primary frequency control
- Suitable for weak power grid, SCR < 2% connected to power grid

Intelligent

- APP intelligent O&M, all-weather power station management
- Visual display, energy gain and data updated in real time
- Intelligent IV curve diagnosis, fast debugging



Product Model	HC-S320K-HT	
PV Input		
Max. Input Voltage	1,500V	
Nominal Input Voltage	1,080V	
Start-up Voltage	500V	
MPPT Operating Voltage Range	480 ~ 1,500V	
Max. Input Current Per MPPT	72A	75A
Max. Short-Circuit Current	120A	
Number of MPP Trackers	6	
Max. Input Number Per MPP Tracker	24	30
AC Output		
Nominal Output Power	320kW	
Max. Apparent Power	352kVA	
Nominal Output Voltage	800V, 3L / PE	
Nominal AC Grid Frequency	50Hz / 60Hz	
Nominal Output Current	230.9A	
Max. Output Current	254A	
Adjustable Power Factor	>0.99 (0.8 leading...0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. Efficiency	≥99.03%	
European Weighted Efficiency	≥98.52%	
MPPT Efficiency	99.9%	
Protection		
Active Anti-islanding Protection	General Electric Frequency Shift	
Residual Current Monitoring	Yes	
DC Reverse Polarity Protection	Yes	
DC Switch	Yes	
AC Short-Circuit Protection	Yes	
AC Overvoltage Protection	Yes	
AC Overcurrent Protection	Yes	
DC Surge Protection	Type II	
AC Surge Protection	Type II	
Ground Fault Detection	Yes	
AFCI	Yes	
Smart String-level Disconnection	Yes	
Smart Connector-level Detection	Yes	
General Data		
Operating Temperature Range	-35 to + 60°C	
Relative Operating Humidity	0 ~ 100 %RH	
Operating Altitude	5,000m	
Cooling	Smart Air Cooling	
Display	LED / WLAN+App	
Communication	RS485 / HPLC	
Weight	120kg	
Dimensions (W*H*D)	1048*732*395mm	
Topology	Non-Isolated	
Degree of Protection	IP66	
Overvoltage Level	PV II / AC III	