

TIER 1
BloombergNEF

Hopewind is ranked as
Tier 1 Solar Inverter Maker by BNEF

HOPEWIND

Stock Code: SSE-603063



PV String Inverters & ESS

Brochure

www.hopewind.com

“ Company Profile

Shenzhen Hopewind Electric Co., Ltd. (Stock Code: 603063) focuses on the R&D, manufacturing, sales and services of renewable energy & variable frequency drive products, including products for wind power generation, photovoltaic generation, energy storage, hydrogen production power supply, power quality and variable frequency drive. Furthermore, Hopewind owns integrated independent R&D and testing platforms of high-power power electrical equipment and monitoring systems. Through innovation in technology and service, Hopewind continuously creates value for customers, and has become one of China's most competitive enterprises in the renewable energy field.

In the field of photovoltaic (PV) grid and off-grid power generation, Hopewind offers competitive overall solutions, including hybrid inverters, string inverters, central inverters, distributed inverters, and power converter systems.

Hybrid inverters include residential 5kW~12kW three-phase models, string PV inverters include residential 3kW~10kW single-phase models and DC1100V 5kW~20kW three-phase models, C&I 25kW~50kW medium-power models, 60kW~110kW high-power models and DC1500V 250kW, 320kW~385kW high-power models. At the same time, we also provide the corresponding WiFi modules, as well as the data collector modules in large-scale power plants to meet the requirement of the system remote monitoring, operation and maintenance management.

The central solution includes 500kW, 630kW, 800kW grid-connected inverters for 1100V system and 2.5MW and 3.125MW grid-connected inverters for 1500V system, as well as integration solution combination products such as inverter-transformer integrated containers.

The distributed solution includes 1000kW and 1250kW grid-connected inverters for 1100V system, and 1MW, 1.25MW, 2MW, 2.5MW, 4MW and 5MW inverter containers and inverter-transformer integrated containers.

Utility ESS solution includes 1500V string power converter system 186kW~250kW, PCS integrated machines, and power converter system 2.4MW~3.45MW, complete energy storage systems and other products. Provide competitive overall solutions for common AC or common DC energy storage systems.

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Headquarter · Shenzhen

5 R&D and manufacturing bases: Shenzhen, Suzhou, Xi'an, Heyuan, Wuhan

30+ Global service bases: Deployed worldwide, and provides comprehensive services for global customers

» Contents



Green Residential Solution

- P04 3-10kW Single-phase PV String Inverter
- P06 8-33kW Three-phase PV String Inverter
- P08 5-12kW Three-phase PV Hybrid Inverter
- P10 6.68-13.38kWh Battery

Green C&I Solution

- P12 25-50kW Three-phase PV String Inverter
- P14 60-75kW Three-phase PV String Inverter
- P16 100-110kW Three-phase PV String Inverter
- P18 150kW Three-phase PV String Inverter

Green Utility Solution

- P20 250-385kW Three-phase PV String Inverter
- P24 186-250kW Power Conversion System
- P26 1000-3500kW Turnkey PCS Station
- P28 3000-9000kVA MV Transformer Station

P30 Smart Data Collector

P34 Power Controller

P36 Data Logger

P39 Zero Export Solution



HSSP3-10K-G01



FEATURES



Efficient

- Compatible with high power PV modules and bifacial modules
- Wider MPPT range
- Up to 1.5 times of DC/AC ratio



User Friendly

- Plug and play
- Fanless design, low noise
- Smart LED indicators



Safe and Reliable

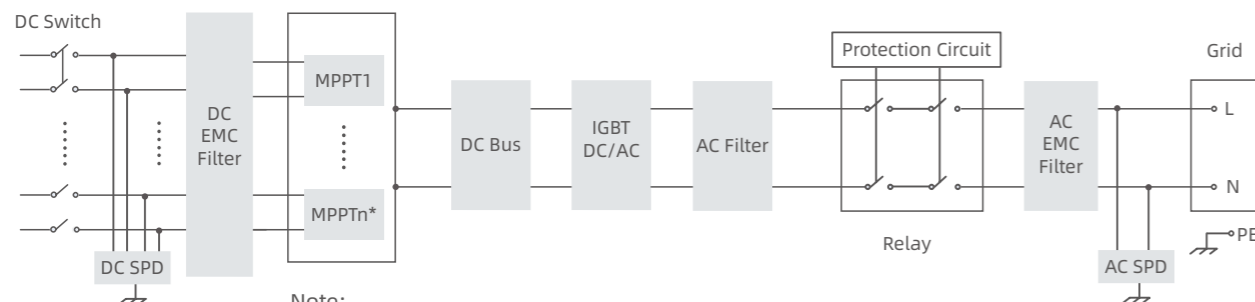
- Built-in type II DC/AC SPD
- Intelligent PV string monitoring
- IP66



Intelligent

- Easy commissioning & real-time monitoring via APP
- Remote firmware upgrade

TOPOLOGICAL GRAPH



Note:

n* = 1: HSSP3K-G01, HSSP4K-G01; n* = 2: HSSP5 – 10K-G01.

PARAMETERS

Model	HSSP3K-G01	HSSP4K-G01	HSSP5K-G01	HSSP6K-G01	HSSP8K-G01	HSSP10K-G01
DC Input						
Max. Input Voltage	600 V					
Starting Voltage	55 V					
MPPT Voltage Range	55~550 V					
MPPT Range Full Load	170~520 V	210~520 V	200~520 V	235~520 V	210~520 V	260~520 V
Max. Input Current Per MPPT	20 A	22 A	20 A / 20 A		26 A / 20 A	
Max. Short-Circuit Current	30 A	33 A	30 A / 30 A		39 A / 30 A	
Number of DC Inputs	1	2	1 / 1		2 / 1	
Number of MPP Trackers	1			2		
AC Output						
Rated Output Power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. Output Power	3.3 kW	4.4 kW	5.5 kW	6.6 kW	8.8 kW	11 kW
Rated Output Voltage	220 V / 230 V (L+N+PE)					
Operating Voltage Range	165~275 V					
Rated Output Current	13.6 A	18.2 A	22.7 A	27.3 A	36.4 A	45.5 A
Max. Output Current	15 A	20 A	25 A	30 A	40 A	50 A
Rated Grid Frequency	50 Hz / 60 Hz					
Power Factor	>0.99 (0.8 leading~0.8 lagging)					
Harmonic (THD)	<3% (at rated power)					
Efficiency						
Max. Efficiency	97.80%					
European Efficiency	97.00%	97.10%	97.40%		97.20%	
Protection						
Surge Protection	DC type II / AC type II					
Insulation Impedance Detection	Yes					
Residual Leakage Current Detection	Yes					
PV String Fault Detection	Yes					
PV Reverse Polarity Protection	Yes					
Anti-Islanding Protection	Yes					
Output Overcurrent Protection	Yes					
DC Switch	Yes					
Zero Export Function	Yes					
Arc Fault Circuit Interrupter (AFCI)	Optional					
General Parameters						
Dimensions (W × H × D)	425 × 400 × 146 mm		425 × 400 × 167 mm		512 × 438 × 177 mm	
Weight	≤8 kg		≤12 kg		≤16 kg	
Ingress Protection	IP66					
Operating Temperature Range	-25~+60°C					
Cooling System	Natural cooling					
Topology	Transformerless					
Operating Altitude	4000 m (>3000 m derating)					
Display	LED, WLAN+APP					
Communication	Wi-Fi					
DC Connection Type	MC4					
AC Connection Type	Plug-in connector					

hopeSun 8-33KTL



FEATURES

High-efficiency

- 2 MPPTs with Max. efficiency 98.60%
- 20A input current, compatible with 210mm PV modules
- High precision & intelligent string detection

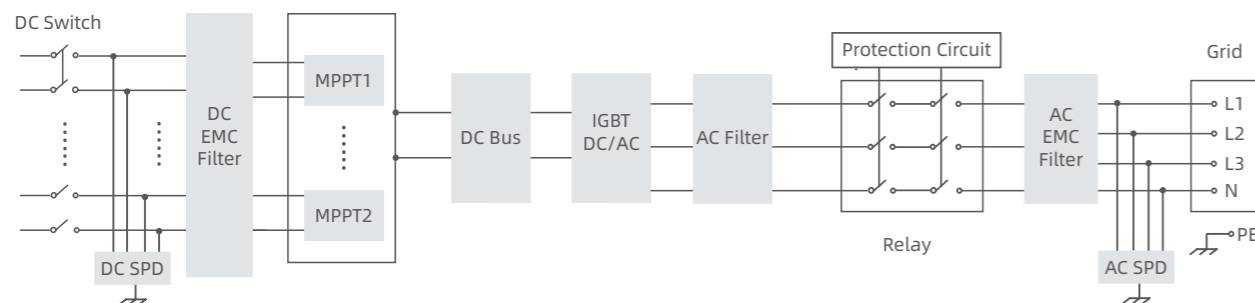
Reliability

- Under/over voltage protection
- Anti-islanding protection
- Built-in Type II DC&AC SPD

User Friendly

- Built-in zero export function interface
- Touch free commissioning via APP
- Remote firmware updates

TOPOLOGICAL GRAPH



PARAMETERS

Model	hopeSun 8KTL	hopeSun 10KTL	hopeSun 12KTL	hopeSun 15KTL	hopeSun 17KTL	hopeSun 20KTL	hopeSun 22KTL	hopeSun 25KTL	hopeSun 30KTL	hopeSun 33KTL	
DC Input											
Max. PV Input Power	12 kW	15 kW	18 kW	22.5 kW	25.5 kW	30 kW	33 kW	37.5 kW	45 kW	49.5 kW	
Max. Input Voltage	1100 V										
Starting Voltage	180 V										
MPPT Voltage Range	200~1000 V										
MPPT Range Full Load	370~850 V			450~850 V		425~850 V					
Max. Input Current Per MPPT	20 A / 20 A			26 A / 20 A		30 A / 30 A		40 A / 40 A			
Max. Short-circuit Current	30 A / 30 A			39 A / 30 A		45 A / 45 A		60 A / 60 A			
Number of DC Inputs	1 / 1			2 / 1		2 / 2			3 / 3		
Number of MPP Trackers	2										
AC Output											
Rated Output Power	8 kW	10 kW	12 kW	15 kW	17 kW	20 kW	22 kW	25 kW	30 kW	33 kW	
Max. Output Power	8.8 kW	11 kW	13.2 kW	16.5 kW	18.7 kW	22 kW	24.2 kW	27.5 kW	33 kW	36.3 kW	
Rated Output Voltage	230 V / 400 V (3P + N + PE)										
Operating Voltage Range	300~520 V										
Rated Output Current	11.6 A	14.5 A	17.4 A	21.7 A	24.6 A	28.9 A	31.8 A	36.1 A	43.5 A	47.6 A	
Max. Output Current	12.7 A	16.0 A	19.1 A	23.9 A	27.0 A	31.8 A	35.0 A	39.7 A	47.8 A	52.4 A	
Rated Grid Frequency	50 Hz / 60 Hz										
Power Factor	>0.99 (0.8 leading-0.8 lagging)										
Harmonic (THD)	<3% (at rated power)										
Efficiency											
Max. Efficiency	98.60%										
European Efficiency	98.10%					98.30%					
Protection											
Surge Protection	DC type II / AC type II										
Insulation Impedance Detection	Yes										
Residual Leakage Current Detection	Yes										
PV String Fault Detection	Yes										
PV Reverse Polarity Protection	Yes										
Anti-Islanding Protection	Yes										
Output Overcurrent Protection	Yes										
DC Switch	Yes										
Zero Export Function	Yes										
General Parameters											
Dimensions (W × H × D)	380 × 400 × 247 mm					380 × 450 × 247 mm					
Weight	≤22 kg					≤25 kg	≤30 kg	≤35 kg			
Protection Degree	IP65										
Operating Temperature Range	-40~+60°C										
Cooling System	Natural cooling					Smart air cooling					
Topology	Transformerless										
Operating Altitude	4000 m (>3000 m derating)										
Display	LED, WLAN + APP										
Communication	Wi-Fi										
DC Connection Type	MC4										
AC Connection Type	SC terminal					Tube type terminal			OT/ DT terminal		

**HYNV5-12K
-G01**



FEATURES



Safe & Reliable

- Integrated arc fault circuit interrupter (AFCI)
- IP66 ingress protection
- 4ms backup mode switching time



Superior Performance

- 98.4% maximum conversion efficiency
- Support up to 3HP air conditioner black startup
- 100% three-phase unbalanced output



Convenient Installation

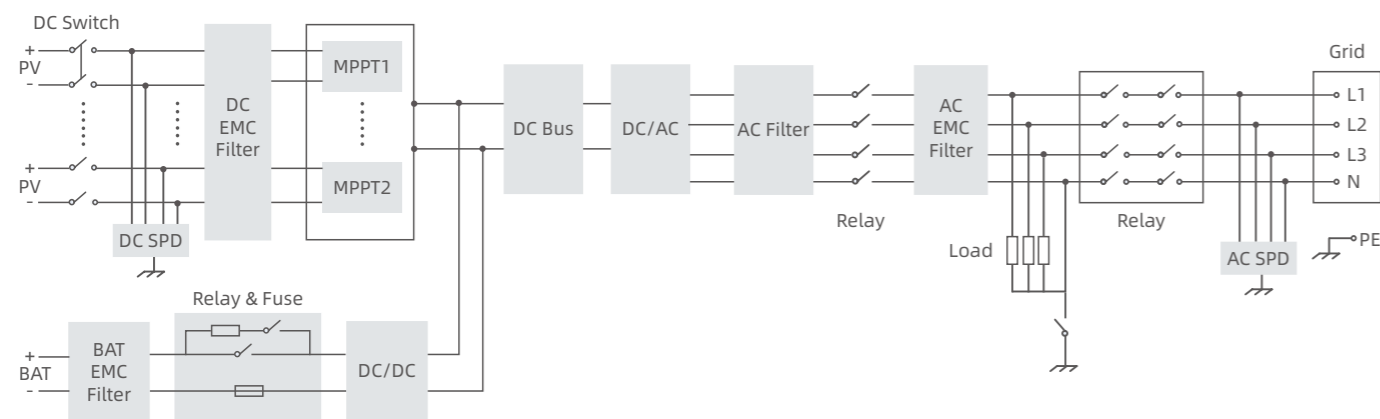
- All quick Plug and Play terminals
- Ergonomic handle
- WIFI + LAN connection for 24/7 monitoring



Flexible Application

- Up to 20 A string current
- Support 210 mm & bifacial PV modules
- 120 – 800 V wide battery voltage range

TOPOLOGICAL GRAPH



PARAMETERS

Model	HYNV5K-G01	HYNV6K-G01	HYNV8K-G01	HYNV10K-G01	HYNV12K-G01
PV Input					
Recommended Max. PV Power	7.5 kW	9 kW	12 kW	15 kW	18 kW
Max. PV Input Voltage	1000 V				
Operating Voltage Range	140~950 V		200~950 V		
Startup Voltage	180 V		250 V		
Rated Input Voltage	600 V				
Number of MPP Trackers	2				
Max. Input Number Per MPP Tracker	1/1		2/1		
Max. Input Current Per MPPT	20/20 A		27/20 A		
Max. Short-circuit Current	30/30 A		40.5/30 A		
Battery					
Battery Type	Lithium battery				
Battery Voltage	120~800 V				
Max. Charge / Discharge Current	30 A		37 A		
Max. Charge / Discharge Power	5 kW	6 kW	8 kW	10 kW	12 kW
Communication	CAN / RS485				
AC Output (Grid)					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. Apparent Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA
Rated Grid Voltage	380 V / 400 V (3P + N + PE)				
Rated Grid Frequency	50 Hz / 60 Hz				
Max. Output Current	8.4 A	10 A	13.3 A	16.7 A	20 A
Power Factor	>0.99 (0.8 leading~0.8 lagging)				
THDi	<3% (at rated power)				
AC Output (Backup)					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. Apparent Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA
Back-up Switch Time	4 ms				
Rated Output Voltage	380 V / 400 V (3P + N + PE)				
Rated Frequency	50 Hz / 60 Hz				
THDv (Linear Load)	<3%				
AC Input (Grid)					
Max. Input Power	10 kW	12 kW	16 kW	20 kW	24 kW
Rated Input Current	15.2 A	18.2 A	24.2 A	30.3 A	36.4 A
Rated Input Voltage	380 V / 400 V (3P + N + PE)				
Rated Input Frequency	50 Hz / 60 Hz				
Efficiency					
Max. Efficiency			98.4%		
European Efficiency	96.5%	96.8%	97.3%	97.4%	97.5%
Protection & Function					
Grid Monitoring	Yes				
AC Short-circuit Protection	Yes				
DC Reverse Polarity Protection	Yes				
DC Overcurrent Protection (Battery)	Yes				
DC Switch (PV)	Yes				
Surge Protection	Yes				
Integrated AFCI	Optional				
General Data					
Topology (Solar / Battery)	Transformerless / transformerless				
Dimensions (W × H × D)	518 × 583 × 195 mm			518 × 583 × 205 mm	
Weight	23 kg			27 kg	
Degree of Protection	IP66				
Operating Temperature Range	-25~+60°C				
Operating Humidity Range	0~95% (non-condensing)				
Max. Operating Altitude	3000 m				
Cooling Method	Natural cooling				
Display	LED, APP, Web				
Communication	CAN / RS485				
DC Connection Type	MC4				
AC Connection Type	Plug and play connector				

All specifications are subject to change without notice.

HBHV32 M1 Series



FEATURES



Self-Consumption Optimization

- Battery storage system balance the feeding and demands
- Grid independence realization



Benefits from Peak Shaving

- Store the power during off-peak and use the energy at peak-time
- Save on the electricity bills by reducing peak demand



VPP Revenue

- Manage the stability of clean electricity through cloud-based technology to maximum your revenue
- Enabling a cost reduction, as well as boosting the system's efficiency

CONFIGURATION TABLE

Model	HV Box (HCHV32-M1)	Module (BMHV32-M1)
HBHV32-S2-M1	1	2
HBHV32-S3-M1	1	3
HBHV32-S4-M1	1	4

PARAMETERS

Battery

Model	HBHV32-S2-M1	HBHV32-S3-M1	HBHV32-S4-M1
System Data			
Module Number in Pack	2	3	4
Battery Capacity	32.65 Ah		
Total Energy	6.68 kWh	10.03 kWh	13.38 kWh
Energy (Useable)	6.31 kWh	9.47 kWh	12.63 kWh
Rated Voltage	204.8 V	307.2 V	409.6 V
Output Voltage Range	179~230 V	268~345 V	358~460 V
Operating Voltage Range	185~227 V	278~340 V	371~454 V
Peak Discharge Current	37.76 A @ 5s		
Max. Charging / Discharging Power	8.45 kW	12.68 kW	16.91 kW
General Parameters			
Dimensions (W × D × H)	780 × 176 × 860 mm	780 × 176 × 1100 mm	780 × 176 × 1360 mm
Weight	86.6 kg	120.5 kg	154.4 kg
Ingress Protection	IP65		
Cooling System	Natural cooling		
Operating Altitude	≤2000 m		
Operating Ambient Humidity	5%~95%		
Calendar Life	10 years (25°C), 15 years expandable		
Cycle Life	>6000 cycles (25°C, 60%SOH)		

Module

Model	BMHV32-M1
Nonimal Capacity	33.25 Ah
Nonimal Energy	3.40 kWh
Rated Capacity	32.65 Ah
Rated Energy	3.34 kWh ²
Nonimal Voltage	102.4 V
Output Voltage Range	80.0~115.2 V
Shipment Voltage	104.3~105.6 V
Dimensions (W × D × H)	712 × 176 × 250 mm
Weight	33.5 ± 1.0 kg
Ingress Protection	IP65 (in stacked up status)
Operating Altitude	≤2000 m
Connection	32S1P
Communication between Module and HV Box	Daisy chain
Installation	Floor-mounted installation
Shipment Capacity	25~30% SOC
Safety Certification	IEC 62619:2022

HV Box

Model	HCHV32-M1
Operating Voltage Range	100~750 V
Max. Input / Output Current	32 A
Peak Input / Output Current	37.76 A @ 5 s
Dimensions (W × D × H)	712 × 176 × 300 mm
Weight	14 ± 0.5 kg
Optimal Operating Temperature	15~30°C
Operating Ambient Temperature	-20~+55°C
Module Series Connection	2~4S
Max. Rack Parallel Connection	4P
Ingress Protection	IP65 (in stacked up status)
Communication between HV Box and PCS	CAN2.0 / RS485
Communication between HV Box and Module	Daisy chain
Communication between HV Box	CAN2.0

HSNV25-50K -G01



FEATURES



Efficient

- Multi-MPPT with Max. efficiency of 98.60%
- 110% AC overloading
- Up to 20 A of MPPT current input to support 210 mm & bifacial PV modules



User Friendly

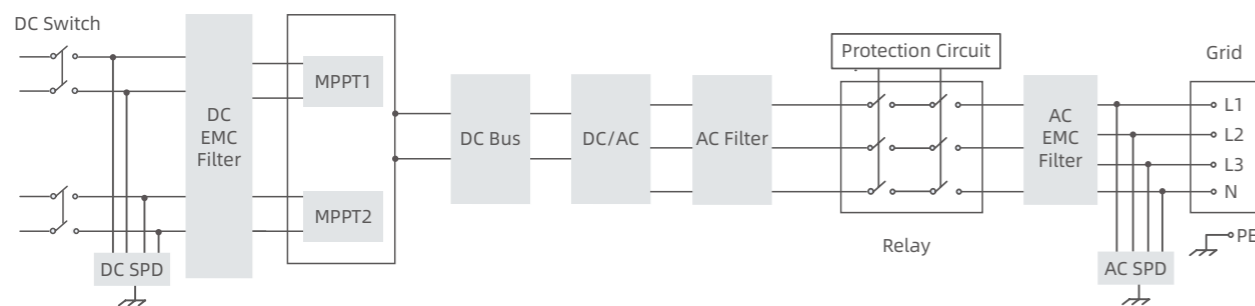
- Built-in zero export function interface
- Supports country grid code preset
- 24/7 monitoring & remote firmware upgrade
- Near-end commissioning via APP



Reliable

- Highly precise & intelligent string detection
- Built-in SPD for surge protection & AFCI function
- Wide MPPT voltage range for unstable grid

TOPOLOGICAL GRAPH



PARAMETERS

Model	HSNV25K-G01	HSNV30K-G01	HSNV36K-G01	HSNV40K-G01	HSNV50K-G01
DC Input					
Max. Input Voltage	1100 V				
Starting Voltage	180 V				
MPPT Voltage Range	200~1000 V				
Max. Input Current Per MPPT	40 A / 40 A	45 A / 45 A	54 A / 54 A	60 A / 60 A	
Max. Short-circuit Current	65 A / 65 A	67.5 A / 67.5 A	81 A / 81 A	90 A / 90 A	
Number of DC Inputs	2 / 2	3 / 3	5 / 4		
Number of MPP Trackers	2				
AC Output					
Rated Output Power	25 kW	30 kW	36 kW	40 kW	50 kW
Max. Output Power	27.5 kW	33 kW	39.6 kW	44 kW	55 kW
Rated Output Voltage	230 V / 400 V (3P + N + PE)				
Operating Voltage Range	300~520 V				
Rated Output Current	36.1 A	43.5 A	52.0 A	57.7 A	72.2 A
Max. Output Current	39.7 A	47.8 A	57.2 A	63.5 A	79.4 A
Rated Grid Frequency	50 Hz / 60 Hz				
Power Factor	>0.99 (0.8 leading~0.8 lagging)				
Harmonic (THDi)	<3% (at rated power)				
Efficiency					
Max. Efficiency	98.60%				
European Efficiency	98.30%				
Protection					
PV Reverse Polarity Protection	Yes				
Insulation Impedance Detection	Yes				
Residual Leakage Current Detection	Yes				
Output Overcurrent Protection	Yes				
Anti-Islanding Protection	Yes				
DC Surge Protection	Type II				
AC Surge Protection	Type II				
I/V Curve Scanning	Yes				
Zero Export Function	Yes				
PV String Monitoring	Yes				
Arc Fault Circuit Interrupter (AFCI)	Optional				
DC Switch	Yes				
General Parameters					
Dimensions (W × H × D)	520 × 520 × 265 mm				
Weight	≤55 kg				
Ingress Protection	IP65				
Operating Temperature	-40~+60°C				
Cooling System	Smart air cooling				
Topology	Transformerless				
Operating Altitude	4000 m (>3000 m derating)				
Display	LED, WLAN + APP				
Communication	RS485 / Wi-Fi				
DC Connection Type	MC4				
AC Connection Type	OT / DT terminal				
Standard Compliance (More Available Upon Request)					
Certification	IEC 62109, IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549-1, EN 50549-2, VDE 4105, VDE 4110, VDE 4120				

HSNV60/70/ 75K-G01



FEATURES

Efficient

- 4 MPPTs with Max. efficiency of 98.50%
- 110% AC overloading
- Up to 20 A of MPPT current input to support 210 mm & bifacial PV modules

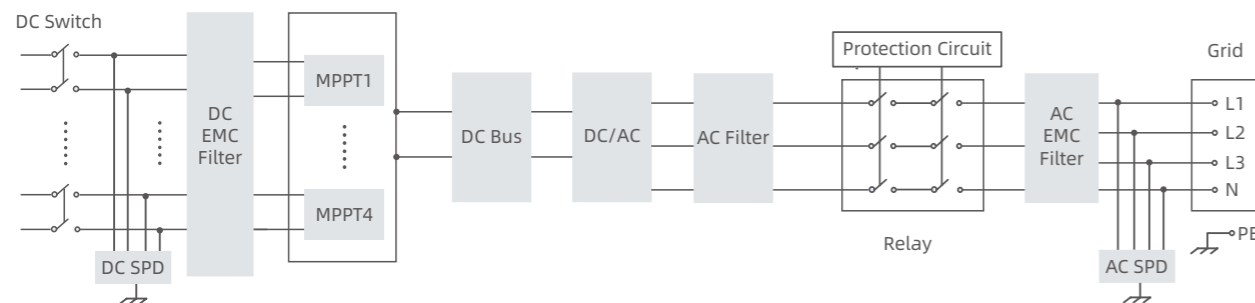
Reliable

- High precisely & intelligent string detection
- Built-in SPD for surge protection & AFCI function
- Wide MPPT voltage range for unstable grid
- Built-in PID recovery module (optional)

User Friendly

- Built-in zero export function interface
- Supports country grid code preset
- 24/7 monitoring & remote firmware upgrade
- Near-end commissioning via APP

TOPOLOGICAL GRAPH



PARAMETERS

Model	HSNV60K-G01	HSNV70K-G01	HSNV75K-G01
DC Input			
Max. Input Voltage	1100 V		
Starting Voltage	180 V		
MPPT Voltage Range	200~1000 V		
Max. Input Current Per MPPT	45 A / 45 A / 45 A / 45 A		
Max. Short-circuit Current	60 A / 60 A / 60 A / 60 A		
Number of DC Inputs	3 / 3 / 3 / 3		4 / 3 / 3 / 4
Number of MPP Trackers	4		
AC Output			
Rated Output Power	60 kW	70 kW	75 kW
Max. Output Power	66 kW	77 kW	82.5 kW
Rated Output Voltage	230 V / 400 V (3P + N + PE)		
Operating Voltage Range	300~520 V		
Rated Output Current	86.6 A	101.0 A	108.3 A
Max. Output Current	95.3 A	111.1 A	119.1 A
Rated Grid Frequency	50 Hz / 60 Hz		
Power Factor	>0.99 (0.8 leading~0.8 lagging)		
Harmonic (THDi)	<3% (at rated power)		
Efficiency			
Max. Efficiency	98.50%		
European Efficiency	98.20%		
Protection			
PV Reverse Polarity Protection	Yes		
Insulation Impedance Detection	Yes		
Residual Leakage Current Detection	Yes		
Output Overcurrent Protection	Yes		
Anti-Islanding Protection	Yes		
DC Surge Protection	Type II		
AC Surge Protection	Type II		
I/V Curve Scanning	Yes		
Zero Export Function	Yes		
PV String Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Yes		
PID Recovery	Optional		
DC Switch	Yes		
General Parameters			
Dimensions (W × H × D)	705 × 650 × 285 mm		
Weight	≤80 kg		
Ingress Protection	IP65		
Operating Temperature Range	-40~+60°C		
Cooling System	Smart air cooling		
Topology	Transformerless		
Operating Altitude	4000 m (>3000 m derating)		
Display	LED, WLAN + APP		
Communication	RS485 / Wi-Fi		
DC Connection Type	MC4		
AC Connection Type	OT / DT terminal		
Standard Compliance (More Available Upon Request)			
Certification	IEC 62109, IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549-1, EN 50549-2, VDE 4105, VDE 4110, VDE 4120		

HSNV100/110K -G01



FEATURES



Efficient

- 4 MPPTs with Max. efficiency of 98.60%
- 110% AC overloading
- Up to 20 A of MPPT current input to support 210 mm & bifacial PV modules



Reliable

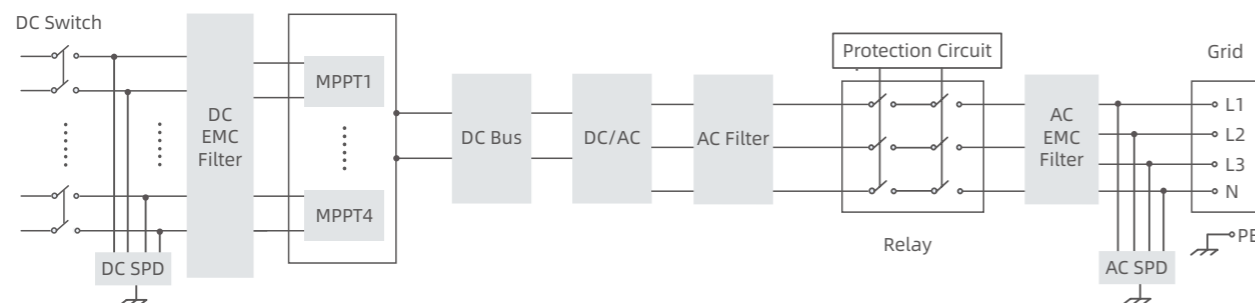
- High precisely & intelligent string detection
- Built-in SPD for surge protection & AFCI function
- Wide MPPT voltage range for unstable grid
- Built-in PID recovery module (optional)



User Friendly

- Built-in zero export function interface
- Supports country grid code preset
- 24/7 monitoring & remote firmware upgrade
- Near-end commissioning via APP

TOPOLOGICAL GRAPH



PARAMETERS

Model	HSNV100K-G01	HSNV110K-G01
DC Input		
Max. Input Voltage	1100 V	
Starting Voltage	180 V	
MPPT Voltage Range	200~1000 V	
Max. Input Current Per MPPT	65 A / 65 A / 65 A / 65 A	
Max. Short-circuit Current	100 A / 100 A / 100 A / 100 A	
Number of DC Inputs	5 / 5 / 5 / 5	
Number of MPP Trackers	4	
AC Output		
Rated Output Power	100 kW	110 kW
Max. Output Power	110 kW	121 kW
Rated Output Voltage	230 V / 400 V (3P + N + PE)	
Operating Voltage Range	300~520 V	
Rated Output Current	144.3 A	158.8 A
Max. Output Current	158.8 A	174.7 A
Rated Grid Frequency	50 Hz / 60 Hz	
Power Factor	>0.99 (0.8 leading~0.8 lagging)	
Harmonic (THDi)	<3% (at rated power)	
Efficiency		
Max. Efficiency	98.60%	
European Efficiency	98.30%	
Protection		
PV Reverse Polarity Protection	Yes	
Insulation Impedance Detection	Yes	
Residual Leakage Current Detection	Yes	
Output Overcurrent Protection	Yes	
Anti-Islanding Protection	Yes	
DC Surge Protection	Type II	
AC Surge Protection	Type II	
I/V Curve Scanning	Yes	
Zero Export Function	Yes	
PV String Monitoring	Yes	
Arc Fault Circuit Interrupter (AFCI)	Optional	
PID Recovery	Optional	
DC Switch	Yes	
General Parameters		
Dimensions (W × H × D)	800 × 690 × 330 mm	
Weight	≤94 kg	
Ingress Protection	IP65	
Operating Temperature Range	-40~+60°C	
Cooling System	Smart air cooling	
Topology	Transformerless	
Operating Altitude	4000 m (>3000 m derating)	
Display	LED, WLAN + APP	
Communication	RS485 / Wi-Fi	
DC Connection Type	MC4	
AC Connection Type	OT / DT terminal	
Standard Compliance (More Available Upon Request)		
Certification	IEC 62109, IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549-1, EN 50549-2, VDE 4105, VDE 4110, VDE 4120	

HSNV150K-G01



FEATURES

Efficient Power Generation

- 6 MPPTs is adaptable to complex environment, maximizes power generation
- MPPT current of 65 A, fully compatible with 180/210 modules
- Support full-load operation at 45 °C, minimizes power generation losses
- Integrated PID recovery function, enhances system power generation

Smart and User-friendly

- High-precision intelligent string detection, smart IV curve scanning, and accurate fault identification
- Equipped with HVRT/LVRT function, strong adaptability to weak grid with SCR technology
- Supports nighttime SVG function, enhances grid compatibility and friendliness

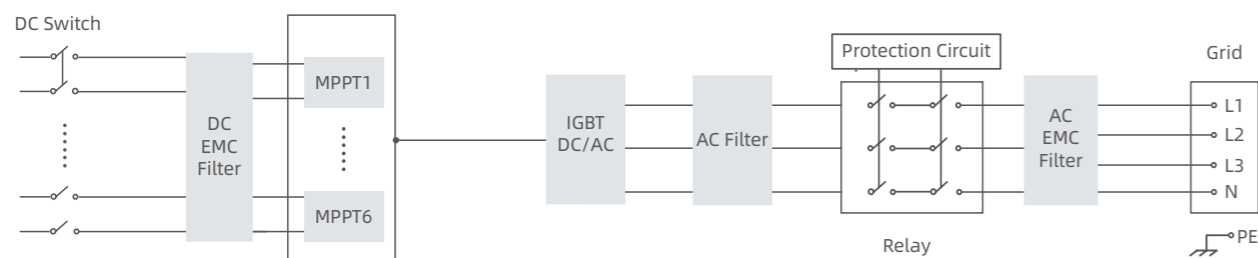
Economical and Eco-friendly

- Supports 4G and PLC communication, ensures low construction costs
- Supports up to 400 mm² of aluminum wire connections, reduces cable costs
- Higher capacity ratio, reduces LCOE (Levelized Cost of Electricity)

Safe and Reliable

- IP66 ingress protection, a strong environmental adaptability
- Built-in AC/DC SPD for comprehensive lightning protection
- Equipped with intelligent DC disconnection and AFCI functions for higher safety
- Featuring temperature detection for both AC and DC terminals, enhances safety and reliability

TOPOLOGICAL GRAPH



PARAMETERS

Model	HSNV150K-G01
DC Input	
Max. Input Voltage	1100 V
Starting Voltage	200 V
MPPT Voltage Range	200~1000 V
MPPT Range Full Load	550~850 V
Max. Input Current Per MPPT	65 A
Max. Short-circuit Current Per MPPT	97.5 A
Max. Number of DC Input	4 × 6
Number of MPPTs	6
AC Output	
Rated Output Power	150 kW
Max. Output Apparent Power	165 kVA
Rated Output Voltage	400 V (3P + PE)
Rated Voltage Range	300~480 V
Rated Output Current	217 A
Max. Output Current	238 A
Rated Frequency / Frequency Adaptation Range	50 Hz / 60 Hz, 45~55 Hz / 55~65 Hz
Power Factor	0.8 (leading) to 0.8 (lagging)
Harmonic (THD)	< 3%
Efficiency	
Max. Efficiency	98.80%
European Efficiency	98.10%
Protection	
Surge Protection	DC type II / AC type II
Insulation Impedance Detection	Yes
Residual Leakage Current Detection	Yes
PV String Fault Detection	Yes
PV Reverse Polarity Protection	Yes
Anti-islanding Protection	Yes
Zero Export Function	Yes
Output Overcurrent Protection	Yes
Output Short-circuit Protection	Yes
DC Switch	Yes
IV Curve Scanning	Yes
PID	Yes
General Parameters	
Dimensions (W × H × D)	1172 × 805 × 350 mm
Weight	≤ 110 kg
Ingress Protection	IP66
Operating Temperature	-40~+60°C (> 45°C derating)
Cooling System	Smart air cooling
Storage Temperature	-40~+70°C
Humidity	0~100%, (non-condensation)
Topology	Transformerless
Operating Altitude	4000 m
Display	LED indicator + APP
Communication	RS485 / PLC / Wi-Fi / 4G
DC Connection Type	MC4 (plug-in terminals)
AC Connection Type	OT / DT terminals (up to 400 mm ²)

hopeSunHV 250KTL



FEATURES

High-efficiency

- 12 MPPTs with Max. efficiency 99.01%
- Compatible with 500 Wp + bifacial modules
- Highly-precise intelligent string detection

Reliable

- Built-in Type II DC SPD & AC SPD
- Built-in PID recovery function
- Compatible in harsh environmental conditions

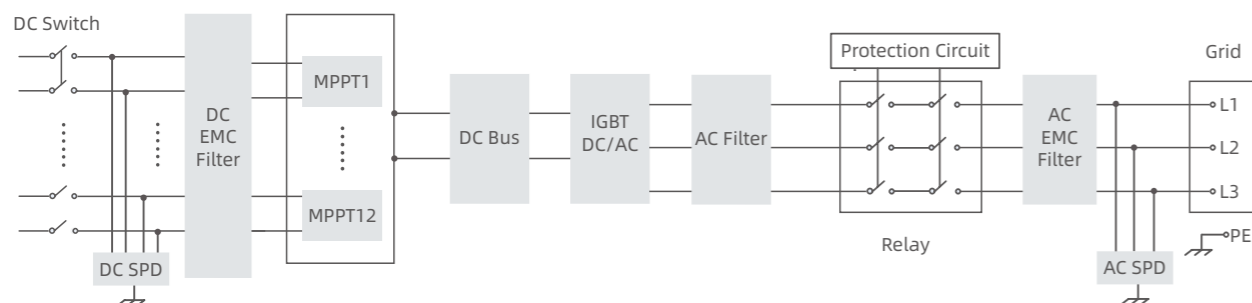
User Friendly

- Active and reactive power regulation
- Compatible with weak grid situation
- Remote firmware upgrade

Economy Friendly

- Compatible with Aluminium cable
- PLC communication to reduce cost
- Night SVG function (optional)

TOPOLOGICAL GRAPH



PARAMETERS

Model	hopeSunHV 250KTL
DC Input	
Max. PV Input Power	375 kW
Max. Input Voltage	1500 V
Starting Voltage	500 V
MPPT Voltage Range	500~1500 V
MPPT Range Full Load	820~1320 V
Max. Input Current Per MPPT	12 × 30 A
Max. Short-circuit Current	12 × 45 A
Number of DC Inputs	12 × 2
Number of MPP Trackers	12
AC Output	
Rated Output Power	250 kW
Max. Output Power	255 kW
Rated Output Voltage	800 V (3P + PE)
Operating Voltage Range	680~880 V
Rated Output Current	180.4 A
Max. Output Current	184 A
Rated Grid Frequency	50 Hz / 60 Hz
Power Factor	>0.99 (0.8 leading~0.8 lagging)
Harmonic (THD)	<3% (at rated power)
Efficiency	
Max. Efficiency	99.01%
European Efficiency	98.55%
Protection	
Surge Protection	DC type II / AC type II
Insulation Impedance Detection	Yes
Residual Leakage Current Detection	Yes
PV String Fault Detection	Yes
PV Reverse Polarity Protection	Yes
Anti-Islanding Protection	Yes
Output Overcurrent Protection	Yes
DC Switch	Yes
General Parameters	
Dimensions (W × H × D)	1090 × 809 × 337.5 mm
Weight	≤115 kg
Protection Degree	IP66
Operating Temperature Range	-25~+60°C
Cooling System	Smart air cooling
Standby Power Consumption	<10 W
Topology	Transformerless
Operating Altitude	4000 m (>3000 m derating)
Display	LED indicator
Communication	RS485 / PLC
DC Connection Type	MC4
AC Connection Type	OT / DT terminal

HSHV320/330/ 350/385K-G02



FEATURES

Efficient

- 8 MPPTs with Max. efficiency 99.01%
- 20 A DC input & 65 A MPPT current, compatible to all types modules
- Full power operation at high temperatures
- Available for tracking system, improving yield

Reliable

- IP66 & optional C5 anti-corrosive for harsh environment
- Low SCR, compatible with weak grid situations
- Built-in SPD type II for both DC&AC

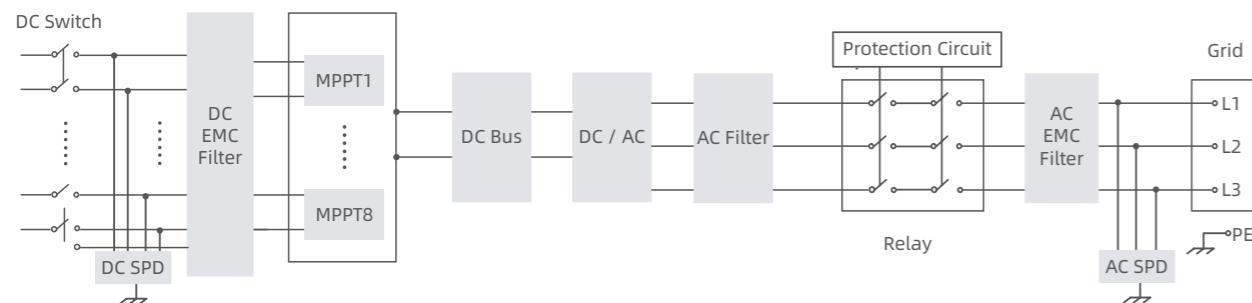
Convenient O&M

- 24 / 7 continuously monitoring
- Remote firmware upgrade
- Smart IV curve diagnosis

Lower Cost

- AC-side Aluminium cable compatibility
- PLC communication to reduce wiring costs
- PID recovery&night SVG (optional)

TOPOLOGICAL GRAPH



PARAMETERS

Model	HSHV320K-G02	HSHV330K-G02	HSHV350K-G02	HSHV385K-G02
DC Input				
Max. Input Voltage	1500 V			
Starting Voltage	550 V			
MPPT Voltage Range	500~1500 V			
MPPT Range Full Load	960~1300 V			
Max. Input Current Per MPPT	65 A			
Max. Short-circuit Current	97.5 A			
Number of DC Inputs	8 × 4			
Number of MPP Trackers	8			
AC Output				
Rated Output Power	320 kW	330 kW	350 kW	385 kW
Max. Output Power	320 kW	330 kW	350 kW	385 kW
Rated Output Voltage	800 V (3P + PE)			
Operating Voltage Range	640~920 V			
Rated Output Current	230.9 A	238.2 A	252.6 A	277.9 A
Max. Output Current	230.9 A	238.2 A	252.6 A	277.9 A
Rated Grid Frequency	50 Hz / 60 Hz			
Power Factor	>0.99 (0.8 leading~0.8 lagging)			
Harmonic (THD)	<3% (at rated power)			
Efficiency				
Max. Efficiency	99.01%			
European Efficiency	98.70%			
Protection				
Surge Protection	DC type II / AC type II			
Insulation Impedance Detection	Yes			
Residual Leakage Current Detection	Yes			
PV String Fault Detection	Yes			
PV Reverse Polarity Protection	Yes			
Anti-Islanding Protection	Yes			
Output Overcurrent Protection	Yes			
DC Switch	Yes			
AFCI	Optional			
Smart IV Curve Diagnosis	Optional			
PID Recovery	Yes			
Night SVG Function	Optional			
General Parameters				
Dimensions (W × H × D)	1224 × 925 × 378 mm			
Weight	154 kg			
Protection Degree	IP66			
Operating Temperature Range	-30~+60°C ①			
Cooling System	Smart air cooling			
Standby Power Consumption	<24 W			
Topology	Transformerless			
Operating Altitude	4000 m (>3000 m derating)		4000 m (>2000 m derating)	
Display	LED indicator, Wi-Fi / APP			
Communication	RS485 / PLC			
DC Connection Type	MC4			
AC Connection Type	OT / DT terminal (≤400 mm ²)			

①Able to start at -40 °C

ESHV 186-250K



FEATURES



Modular Design

- High maintainability, reduced MTTR
- Single battery rack management, avoid single point of failure
- Compatible with a mix of new and old batteries, extending system lifetime



Grid Friendly

- Coordinated control for grid friendly and load friendly
- Grid-forming technology, grid support as the core feature
- Complete communication method, support RS485, Ethernet, CAN



High Efficiency

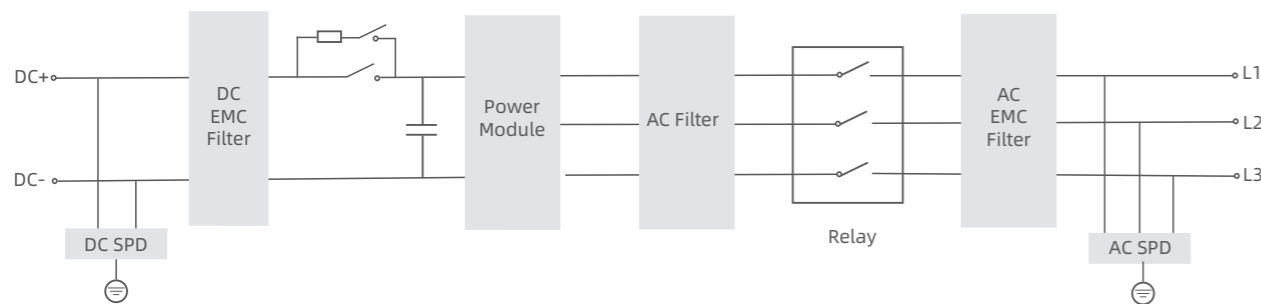
- Max. efficiency of 99%
- Pure and stable sine wave output
- Power factor ranges from -1 to 1



Reliable & Safety

- IP66 protection class
- Tailored anti-corrosion solutions for reliability
- No derating at 45 °C, 3000m altitude

TOPOLOGICAL GRAPH



PARAMETERS

Power	186 kW	200 kW	215 kW	250 kW
DC Input				
Voltage Range	1000~1500 V			
Max. DC Current	205 A	220 A	237 A	275 A
AC Output				
Rated Output Power	186 kW	200 kW	215 kW	250 kW
Max. Output Power	205 kW	220 kW	237 kW	275 kW
Reactive Power Range	0~186 kVar	0~200 kVar	0~215 kVar	0~275 kVar
AC Connection	3P + PE			
On-grid Parameters				
Rated Grid Voltage	690 V			
Operating Grid Voltage	587~759 V			
Rated Grid Frequency	50 Hz			
Operating Grid Frequency	45~55 Hz			
THDI	< 3% (at rated power)			
Power Factor	-1 to +1			
Charge Discharge Conversion Time	< 20 ms			
Off-grid Parameters				
Rated Output Voltage	690 V			
Voltage Imbalance	< 2%, momentarily not exceeding 4%			
THDU	< 3% (no-load or rated resistive load)			
Dynamic Voltage Transient Range	< 10% (during resistive load / balanced load, when the load experience a sudden change from 20% to 100% or from 100% to 20%)			
Output Overvoltage Protection Value	Settable			
Output Undervoltage Protection Value	Settable			
Efficiency				
Max. Efficiency	99%			
General Parameters				
Dimensions (W × H × D)	795 × 915 × 293.5 mm (without hanger)			
Weight	≤ 100 kg			
Ingress Protection	IP66			
Operating Temperature Range	-40~+60°C (> 45°C power derating)			
Operating Relative Humidity Range	0~100% (no condensation)			
Operating Altitude	< 5000 m (> 3000 m derating)			
Noise Emission	75 dB			
Isolation Method	Transformerless			
DI / DO Interface	4 / 2			
Anti-corrosion	C3 (C4 / C5 optional)			
Surge Protection	DC type II / AC type II			
Cooling System	Smart air cooling			
Display	LED			
Communication	CAN, Ethernet, RS485, Wi-Fi + APP			
Communication Protocol	Modbus TCP / Modbus RTU / IEC61850 / IEC104			
Grid Type	IT			
Certification	IEC			

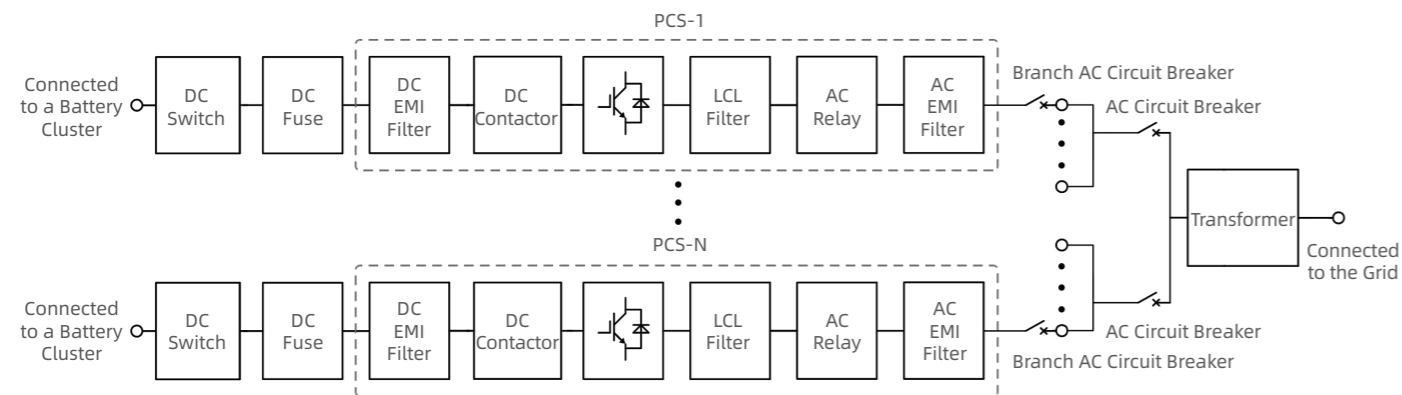
HPPS Series



FEATURES

- Single cluster management for batteries to address the issue of circulating current in parallel connections
- Modular design to prevent single point of failure
- Use of the three-level technology to achieve a maximum efficiency of 99%
- Strong environmental adaptability with C3~C5 corrosion protection available, and no derating at 45°C ambient temperature
- Optional number of PCS modules at 6~35kV with all-in-one machine customizable
- Multiple operation modes supported such as PQ and VSG

TOPOLOGICAL GRAPH



PARAMETERS

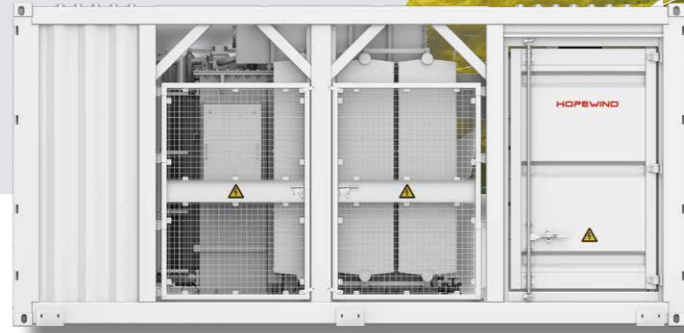
Model		HPPS 2500B	HPPS 1750C	HPPS 2500C	HPPS 3500C
DC Parameters	Number of DC Input Channels	12	1	1	2
	Max. DC Current	209 A*12	1962 A	2810 A	3934 A
	DC Voltage Operating Range	1000 V~1500 V			
AC Parameters	Total Rated Power	2500 kW	1750 kW	2500 kW	3500 kW
	Max. Output Power	2750 kVA	1925 kVA	2750 kVA	3850 kVA
	Rated Voltage	690 Vac			
	Isolation Mode	Transformer Isolation			
	Q Range	0~2625 kvar	0~1837 kvar	0~2625 kvar	0~3675 kvar
On-grid Mode	Rated Grid Voltage	6~35 kV (Customizable)			
	Rated Grid Frequency	50 Hz / 60 Hz			
	THD	<3%			
	Power Factor	-1~1			
Transformer Parameters	Rated Capacity	2500 kVA	1750 kVA	2500 kVA	3500 kVA
	Transformer Type	Oil-immersed Transformer			
	LV/MV Voltage	0.69 / (6~35) kV			
System Parameters	Dimensions (W × H × D)	6058 × 2438 × 2896 mm			
	Operation Temperature	-40°C~+60°C (Derating above 45°C)			
	Operation Humidity	0~100%			
	Operating Altitude	≤5000 m (No derating within 3000 m)			
	IP Rating	IP54 (PCS IP66)			
	BMS Communication	RS485 / CAN			
	EMS Communication	Ethernet Interface			
	Communication Protocol	Modbus RTU / Modbus TCP / IEC104 / IEC61850			
	Standard Compliance	GB/T 34120, IEC62477, IEC61000, EN50549			
	Grid Support	CEPRI HLVRT, Frequency adjustment function, Voltage adjustment function, Inertia response, Etc.			

*Please refer to the latest physical product for any changes in specifications.

*The table only lists some models. Products can be customized for projects.

HPMVS Series

3000/6000/9000



BRIEF INTRODUCTION

Hopewind MV Transformer Station integrates LV panel, Step-up Transformer, RMU and other auxiliaries to a 20-foot HC container, convert LV AC power to MV AC power and inject to grid system. The integrated and cost effective solution is ideal for easy transportation and quick installation.

FEATURES



Cost-saving

- Easy transportation with standard container design
- High Efficiency Transformer & Lower Self-consumption for Higher Yields



Integrated and Convenient

- Prefabricated and Pre-tested
- Plug-and-play installation, no Internal Cabling Needed Onsite



Safety & Reliability

- Type-tested components of reliable quality
- The highest IP level in the market and C4 anti-corrosion, adaptable to harsh environments



Easy O&M

- LV panel, transformer and RMU real-time monitoring and remote control, without walk-in operation
- Integrated modular design simplifying maintenance

PARAMETERS

Model	HPMVS-3000	HPMVS-6000	HPMVS-9000
Input			
Available inverters	HSHV385K		
No. of inverters	9	18	24
AC power @40°C	3465 kVA	6930 kVA	9240 kVA
LV switches	MCCB (400 A / 800 Vac / 3P, 9pcs)	MCCB (400 A / 800 Vac / 3P, 18pcs)	MCCB (400 A / 800 Vac / 3P, 24pcs)
	ACB (4000 A / 800 Vac / 3P, 1pc)	ACB (4000 A / 800 Vac / 3P, 2pcs)	ACB (4000 A / 800 Vac / 3P, 2pcs)
Rated input voltage	800V		
Output			
Rated output voltage	10 kV-35 kV		
Rated frequency	50 Hz / 60 Hz		
Transformer type	Oil-immersed, fully sealed, Dy11	Oil-immersed, fully sealed, Dy11y11	
Transformer tapping	±2×2.5%		
Transformer oil type	Mineral oil (PCB free)		
Transformer cooling type	ONAN		
Transformer Min. Peak Efficiency	99% / Tier1 / Tier2 (optional)		
RMU type	SF6 gas insulated, DCV or CCV		
Impedance (HV-LV1, LV2)	6.5%	8%	9.5%
Auxiliary transformer	Dry type, 5 kVA, 800 V / 400 V, Dyn11, level H (Customizable)		
UPS	1 kVA, 30 min (Customizable)		
Protection			
Transformer monitoring and protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz relay		
Rated short-circuit breaking current	20 kA / 3 s (Optional: 25kA/1 s)		
MV relay protection	50 / 51, 50N / 51N		
LV Overvoltage protection	Type I+II		
Protection degree	IP54 for whole box transformer IP68 for transformer body		
Anti-corrosion degree	C4		
General			
Dimensions	6058 × 2896 × 2438 mm, standard 20-foot HC container		
Weight	<15 T	<22 T	<27 T
Temperature range	-25°C~+60°C		
Relative humidity	0%~95%		
Max. Operating altitude	2,000 m		
Communication protocol	Modbus-RTU / Modbus-TCP / IEC104		
Color	RAL7035		
Applicable Standards	IEC 62271-200/202, EN 50588-1, IEC 60076, IEC 61439-1		

hopeComBox 1000-G01



hopeComBox 1000-G03



FEATURES

Flexible Networking

- Support RS485, Ethernet, WLAN multiple communication interfaces
- Support IEC 104, Modbus-RTU, Modbus-TCP, and other communication protocols

Reliability

- Safety improvement with built-in SPD
- Wide operation voltage range

Convenient O&M

- Support multiple-inverter monitoring, batch parameter setting
- Support alarm notification
- Support USB 2.0 port access

PARAMETERS

Model	hopeComBox1000-G01
Communication Interface	
Max. Number of Inverter Connection	30
RS485 Interface	3 (2 for main use, 1 for backup)
Networking	RJ45 / Wi-Fi
Power Supply	
AC Input	90~240 VAC, 50 / 60 Hz
Grid Type	Single phase, L + N + PE
Ambient Condition	
Operating Temperature	-40~+60°C
Storage Temperature	-40~+70°C
Operating Humidity	5~95% (non condensation)
Operating Altitude	≤5000 m
Ingress Protection Class	IP65
Mechanical Parameters	
Dimensions (W × H × D)	430 × 410 × 130 mm
Weight	≤7 kg

FEATURES

Flexible Networking

- Support 8 RS485, Ethernet, Wi-Fi multiple communication interfaces
- Support multiple types of devices access and data forwarding
- Support IEC 104, Modbus-TCP, IEC 61850 and other communication protocols

Convenient O&M

- Support both APP remote monitoring and local monitoring
- Support automatic addresses assignment for inverters
- Support connection with up to 40 inverters
- Equipped with 8 DI, 6 DO, 6 AI, 6 AO interfaces

PARAMETERS

Model	hopeComBox1000-G03
Devices Regulation	
Max. Number of Inverter Connection	40
Networking	RS485 / PLC / RJ45 / 4G / Wi-Fi
Communication Interface	
PLC Interface	800 V AC
RS485 Interface	COM × 8
Ethernet Interface ^①	ETH × 2
Power Supply	
AC Input	220 V AC, 50 / 60 Hz
Grid Type	Single phase, L + N + PE
General Parameters	
Operating Temperature	-40~+65°C
Storage Temperature	-40~+70°C
Operating Humidity	5~95% (non condensation)
Operating Altitude	≤ 4000 m
Ingress Protection Class	IP65
Installation Methods	Wall-Mounted, Pole-Mounted
Mechanical Parameters	
Dimensions (W × H × D) ^②	410 × 430 × 130 mm
Weight	≤ 15 kg

① One of the Ethernet interface is exclusively for local debugging.
② Dimensions exclude some components such as mounting lugs and handles. Dimensional error: ±10 mm.

hopeComBox 2000-G03



FEATURES

Flexible Networking

- Support 2 PLC, 8 RS485, Ethernet, Wi-Fi multiple communication interfaces
- Support multiple types of devices access and data forwarding
- Support IEC 104, Modbus-TCP, IEC 61850 and other communication protocols

Convenient O&M

- Support automatic addresses assignment for inverters
- Support connection with up to 40 inverters
- Support devices encryption access, high data security

Intelligent Regulation

- Support upgrading inverters from the central control room, batch parameters setting
- Support local real-time monitoring

PARAMETERS

Model	hopeComBox2000-G03
Devices Regulation	
Max. Number of Inverter Connection	40
Networking	RS485 / PLC / RJ45 / SFP
Fiber Switch	2 optical 3 electrical fiber switches
Fiber Optic Terminal Box	4 inlets 24 outlets SC single mode fiber optic terminal box
Communication Interface	
PLC Interface	800 V AC × 2
RS485 Interface	COM × 8
Ethernet Interface ^①	ETH × 2
Fiber Optic Interface	SFP × 2
Power Supply	
AC Input	220 V AC, 50 / 60 Hz
Grid Type	Single phase, L + N + PE
General Parameters	
Operating Temperature	-40~+65°C
Storage Temperature	-40~+70°C
Operating Humidity	5~95% (non condensation)
Operating Altitude	≤ 4000 m
Ingress Protection Class	IP65
Installation Methods	Wall-Mounted, Pole-Mounted
Mechanical Parameters	
Dimensions (W × H × D) ^②	430 × 670 × 175 mm
Weight	≤ 15 kg

① One of the Ethernet interface is exclusively for local debugging.
② Dimensions exclude some components such as mounting lugs and handles. Dimensional error: ±10 mm.

hopeComBox 3000-G03



FEATURES

Flexible Networking

- Support 8 RS485, Ethernet, Wi-Fi multiple communication interfaces
- Support multiple types of devices access and data forwarding
- Support IEC 104, Modbus-TCP, IEC 61850 and other communication protocols

Convenient O&M

- Equipped with touch jscreen, core switch
- Support vertical encryption

Intelligent Regulation

- Support upgrading inverters from the central control room
- Support local real-time monitoring

PARAMETERS

Model	hopeComBox3000-G03
Devices Regulation	
Max. Number of Inverter Connection	40
Networking	RS485 / SFP / RJ45
Fiber Switch	2 optical 3 electrical fiber switches
Fiber Optic Terminal Box	4 inlets 24 outlets SC single mode fiber optic terminal box
Communication Interface	
RS485 Interface	COM × 8
Ethernet Interface ^①	ETH × 2
Fiber Optic Interface	SFP × 2
Power Supply	
AC Input	220 VAC, 50 / 60 Hz
Grid Type	Single phase, L + N + PE
General Parameters	
Operating Temperature	-40~+65°C
Storage Temperature	-40~+70°C
Operating Humidity	5~95% (non condensation)
Operating Altitude	≤ 4000 m
Ingress Protection Class	IP65
Installation Methods	Wall-Mounted, Pole-Mounted
Mechanical Parameters	
Dimensions (W × H × D) ^②	430 × 670 × 175 mm
Weight	≤ 15 kg

① One of the Ethernet interface is exclusively for local debugging.
② Dimensions exclude some components such as mounting lugs and handles. Dimensional error: ±10 mm.

hopePowerBox -G03



FEATURES



Flexible Networking

- Support 8 RS485, Ethernet, Wi-Fi multiple communication interfaces
- Support multiple types of devices access and data forwarding
- Support IEC 104, Modbus-TCP, IEC 61850 and other communication protocols



Convenient O&M

- Support both APP remote and local monitoring
- Support automatic addresses assignment for inverters
- Support connection with up to 40 inverters



Intelligent Regulation

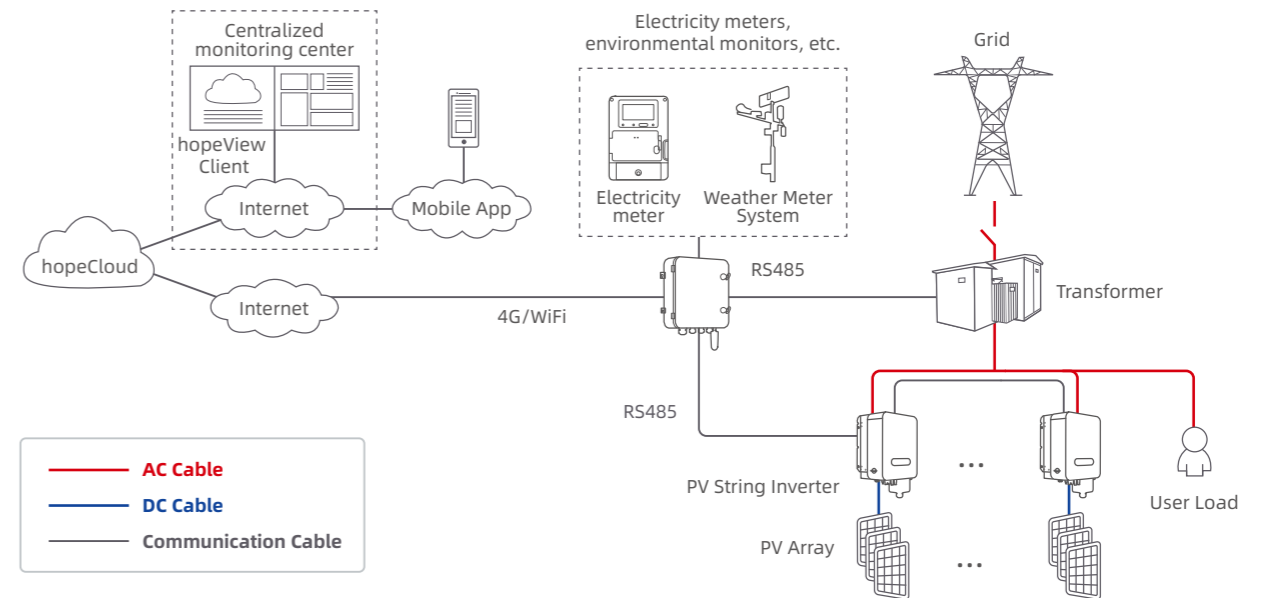
- Support flexible setting of zero export control period
- Compatible with medium-voltage connected grid projects

PARAMETERS

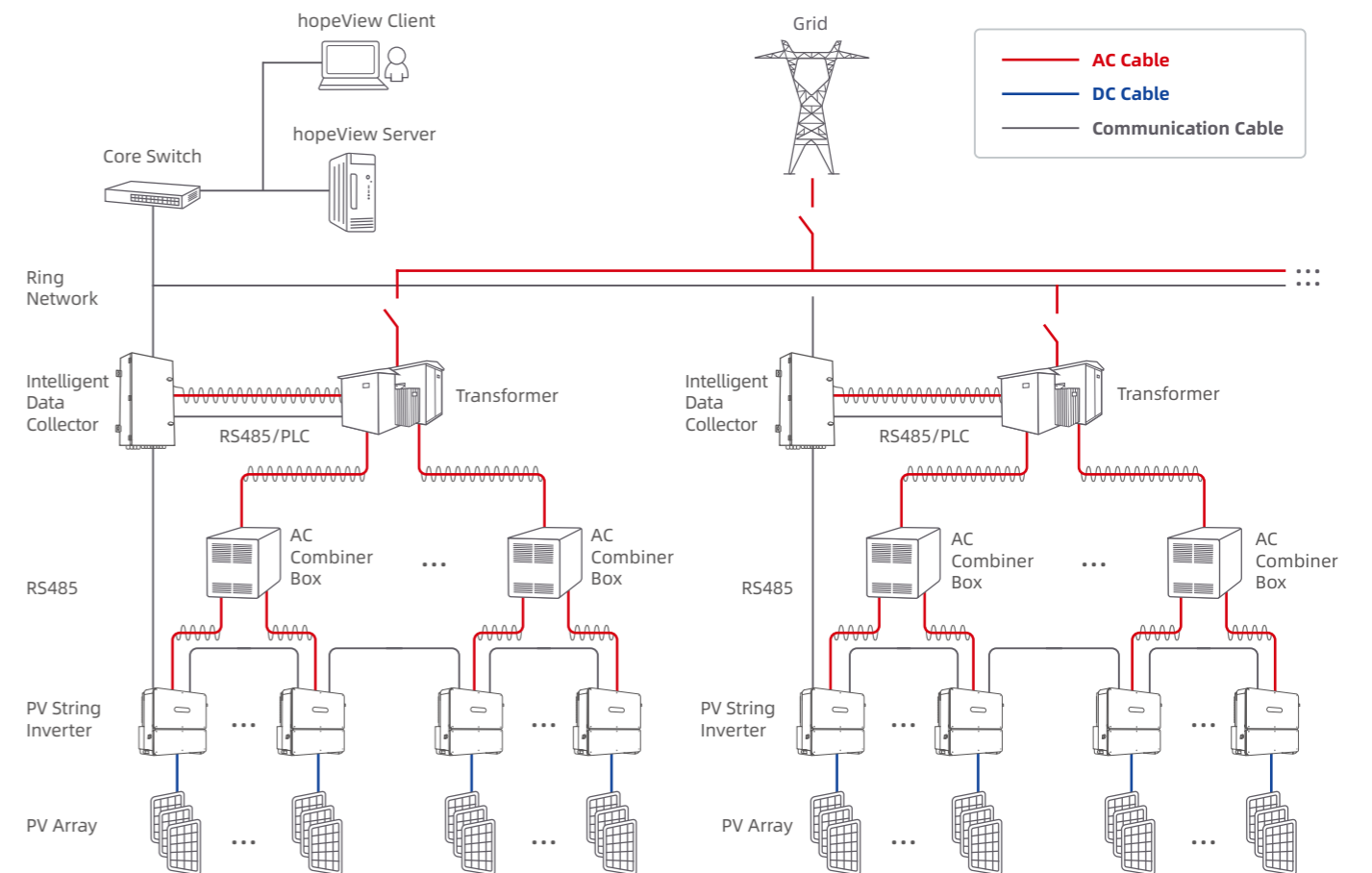
Model	hopePowerBox-G03
Devices Regulation	
Max. Number of Inverter Connection	40
Networking	RS485 / RJ45 / 4G / Wi-Fi
Communication Interface	
RS485 Interface	COM × 8
Ethernet Interface ^①	ETH × 2
Power Supply	
AC Input	400 VAC, 50 / 60 Hz
Grid Type	3P + N + PE / 3P + PE
General Parameters	
Operating Temperature	-40~+65°C
Storage Temperature	-40~+70°C
Operating Humidity	5~95% (non condensation)
Operating Altitude	≤ 4000 m
Ingress Protection Class	IP65
Installation Methods	Wall-Mounted, Pole-Mounted
Mechanical Parameters	
Dimensions (W × H × D) ^②	410 × 430 × 130 mm
Weight	≤ 15 kg

① One of the Ethernet interface is exclusively for local debugging.
② Dimensions exclude some components such as mounting lugs and handles. Dimensional error: ±10 mm.

DISTRIBUTED PV POWER STATION



UTILITY PV STATION



hopeDongle G01-WiFi



FEATURES



Easy to Use

- Plug and play, quick installation
- Support cloud platform monitoring services
- Support remote modify local parameters
- Support remote firmware upgrade



Flexible

- Support multiple data formats
- Support fast adaptation of all kinds of equipment



Stable

- Industrial components and designs, wide temperature range
- Password and encrypted transmission for data protection
- Real-time detection of online status

PARAMETERS

Model	hopeDongle-G01-WiFi
External Interface	
Docking Method	HKJ (aviation plug)
Operating Indicator	LED indicator
General Parameters	
Dimensions (W × H × D)	140 × 45 × 29 mm
Weight	70 g
Protection Degree	IP65
Rated Voltage	DC5 ~ 17V
Max. Current	250 mA (DC5V)
Operating Temperature	-40~+85°C
Storage Temperature	
Hardware Parameters	
Data Input Mode	RS485 (9600bps)
Data Output Mode	Wi-Fi
Wi-Fi Parameters	
Operating Frequency	2.412~2.472GHz
Wireless Standard	802.11 b/g/n
Data Transmission Rate	11Mbps@11b, 54Mbps@11g
Operating Mode	AP + STA (coexistence mode)
Software Parameters	
Supported Device Protocols	Modbus-RTU
Software Watchdog	Support
Data Upload Cycles	5 minutes (default)
Parameter Configuration Method	Hopewind cloud APP
Cloud Platform	Hopewind cloud
Others	
Certification	CE (IEC-60529, IEC-62311, IEC-62368, EMC), RED

hopeDongle G02-WiFi



FEATURES



Easy to Use

- Plug and play, quick installation
- Supports cloud platform monitoring services
- Supports remote modify local parameters
- Supports remote firmware upgrade



Flexible

- Supports multiple data formats
- Supports fast adaptation of all kinds of equipment



Stable

- Industrial components and designs, wide temperature range
- Password and encrypted transmission for data protection
- Real-time detection of online status

PARAMETERS

Model	hopeDongle-G02-WiFi
External Interface	
Docking Method	USB
Operating Button	RESET
Operating Indicator	LED indicator
General Parameters	
Dimensions (W × H × D)	118 × 49 × 33.5 mm
Weight	70 g
Ingress Protection	IP66
Rated Voltage	DC5~15 V
Max. Current	125 mA (DC12V)
Operating Temperature	-30~+65°C
Storage Temperature	-40~+85°C
Hardware Parameters	
Data Input Mode	RS485 (9600bps)
Data Output Mode	Wi-Fi
Wi-Fi Parameters	
Operating Frequency	2.412~2.472GHz
Wireless Standard	802.11 b/g/n
Data Transmission Rate	11Mbps@11b, 54Mbps@11g
Operating Mode	AP + STA (coexistence mode)
Software Parameters	
Supported Device Protocols	Modbus-RTU
Software Watchdog	Support
Data Upload Cycles	5 minutes (default)
Parameter Configuration Method	Hopewind cloud APP
Cloud Platform	Hopewind cloud
Others	
Certification	CE (IEC-60529, IEC-62311, IEC-62368, EMC), EN (300328, 55032), RED

hopeDongle G02-WiLAN



FEATURES



Easy to Use

- Plug and play, quick installation
- Supports cloud platform monitoring services
- Supports remote modify local parameters
- Supports remote firmware upgrade



Flexible

- Supports multiple data formats
- Supports fast adaptation of all kinds of equipment



Stable

- Industrial components and designs, wide temperature range
- Password and encrypted transmission for data protection
- Real-time detection of online status

PARAMETERS

Model	hopeDongle-G02-WiLAN
External Interface	
Docking Method	USB for connecting, RJ45 for Networking
Operating Button	RESET
Operating Indicator	LED indicator
General Parameters	
Dimensions (W × H × D)	165 × 50 × 33.6 mm
Weight	80 g
Ingress Protection	IP66
Rated Voltage	DC5~15 V
Max. Current	170 mA (DC12V)
Operating Temperature	-30~+65°C
Storage Temperature	-40~+85°C
Hardware Parameters	
Data Input Mode	RS485 (9600bps)
Data Output Mode	Wi-Fi
Wi-Fi Parameters	
Operating Frequency	2.412~2.472GHz
Wireless Standard	802.11 b/g/n
Data Transmission Rate	11Mbps@11b, 54Mbps@11g
Operating Mode	AP + STA (coexistence mode)
Software Parameters	
Supported Device Protocols	Modbus-RTU
Software Watchdog	Support
Data Upload Cycles	5 minutes (default)
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ZERO EXPORT SOLUTION-SINGLE-INVERTER

FEATURES



String Inverter + Smart Meter

- Integrated solution, the meter can be installed outdoors
- Hopewind cloud intelligent parameter configuration and online monitoring
- Support CT flexible configuration to adapt to different project scales



Indoor type meter



Outdoor type meter



CT

TECHNICAL PARAMETERS

Application Type	Single-Phase Direct Access Type	Three-Phase Direct Access Type	Three-Phase Ct Access
Input Voltage	184~276VAC	320~480VAC	320~480VAC
Input Current	0.5~100A	0.5~100A	300 / 5A
Input Frequency	45~65HZ		
Voltage Measurement Accuracy	0.50%		
Current Measurement Accuracy	0.50%		
Power Consumption	≤2W		
Communication Method	RS485		
Protection Degree	IP51 (indoor type) / IP65 (outdoor type)		

TECHNICAL PARAMETERS-CT

Model	Power Section	Rated Current Ratio	Accuracy Class	Hole Diameter(Mm)
Snap Type On Off Transformer	150kw	300 / 5A	0.50%	Φ24
	250kw	500 / 5A		Φ35
	400kw	800 / 5A		Φ50
	500kw	1000 / 5A		
On Off Square Hole Transformer	1.5MW	3000 / 5A		160*160

150 GW⁺

SHIPMENTS WORLDWIDE



Email: marketing@hopewind.com

Tel: +86 189 4874 2347

Website: www.hopewind.com

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If the product size and parameters have changed, the latest actual product shall prevail