

HOPEWIND

SMART CONTROLLER

hopeComBox 2000-G04



TIER 1
BloombergNEF

Hopewind is ranked as
Tier 1 Solar Inverter Maker by BNEF

PRELIMINARY

FEATURES



Safe and Reliable

- Supports encrypted transmission of device data and fault protection
- Supports continuous 24/7 insulation impedance detection for enhanced safety
- Requires no negative grounding, resulting in higher system reliability
- IP66 & C5 anti-corrosive design for harsh environment



Convenient O&M

- Modular design, strong maintainability
- Automatically searches and assigns inverter address for easy commissioning
- Supports batch parameters configuration and firmware upgrades for inverters



Intelligent and Flexibly

- Supports dual-winding and dual-split transformer applications
- Supports RS485, PLC, Ethernet, and fiber optic multiple communication interfaces
- Supports multiple types of devices access: smart meter, substation monitoring units, environment sensors, etc.
- Supports IEC 104, Modbus-TCP/RTU, GOOSE, MMS and other communication protocols



Outstanding Performance

- Active PID protection, real-time suppression of PID effect, compatible with P-type/N-type modules
- Adopts Linux embedded operating system, supports WebUI operation
- Adopts dual-core processor, 512MB DDR memory for stable and reliable system performance
- Supports grid dispatch functions (AGC, AVC, fast-frequency response) with extremely rapid response times



PARAMETERS

Model	hopeComBox2000-G04
Devices Regulation	
Max. Number of Inverter Connection	40
Communication Methods	RS485 / RJ45 / PLC / SFP
Fiber Switch	2 optical, 3 electrical
Fiber Optic Terminal Box (Single Mode)	4 inlets, 24 outlets
Communication Ports	
RS485 Ports	COM × 8
Ethernet Ports ^①	ETH × 4
Fiber Optic Ports	SFP × 2
PLC Channel	2
Power Supply	
Rated Input Voltage	220~230 V AC
Rated Frequency	50 Hz / 60 Hz
Max. Input Current	1.5 A
PLC Parameters/Specifications	
Rated Input Voltage	800 V AC
Max. Communication Distance	1000 m
Max. Number of Devices Per Channel	20
PID Parameters	
Rated Input Voltage	800 V AC
Input Voltage Range	640~920 V AC
Max. Input Current	1 A
Grid Type	IT
Single PID Max. Output Power	450 W
Max. Output Current	0.6 A
Display	LED
System ISO Detection Accuracy	
2.5~20 K	±10%@25°C
20~50 K	±20%@25°C
General Parameters	
Dimensions (W × H × D)	770 × 750 × 325 mm
Weight	About 50 kg
Operating Temperature	-40~+60°C
Operating Humidity	4~100%
Operating Altitude	≤4500 m
Ingress Protection	IP66
Anti-corrosion	C5
Installation Methods	Wall-mounted, pole-mounted
Inlet and Outlet Wires	Bottom in and out
O&M Methods	Front operation and front maintenance

① One of the ethernet ports is exclusively for local debugging.

Note: The parameters depicted in the hopeComBox2000-G04 datasheet are preliminary version and shall not serve as a binding reference for product performance compliance. The final product specifications shall prevail per the actual shipped products.



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