

HOPEWIND

POWER CONVERSION SYSTEM

ESHV 186-250K

TIER 1

BloombergNEF

Hopewind is ranked as
Tier 1 Solar Inverter Maker by BNEF



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

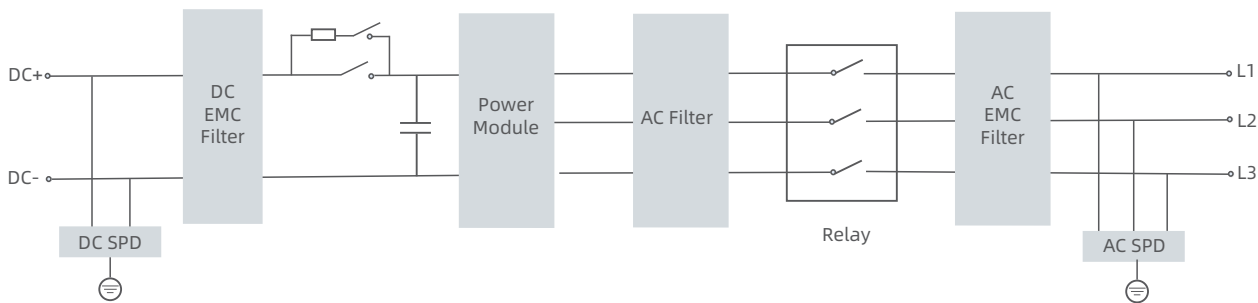
- Max. efficiency of 99%
- Pure and stable sine wave output
- Power factor ranges from -1 to 1



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			