

PCS



Product Features

Efficient

Three-level control, the maximum conversion efficiency reaches 99%.

Convenient

Modular/integrated design, easy operation and maintenance, supports parallel operation of multiple machines at AC sides.

Applications

Equipped with VSG, VF, PQ, black start and other functions suitable for power generation side, grid side, user side and etc.

Grid Support

Comply with CE, GB/T34120, GB/T34133 standards.

Support high/low voltage and frequency ride-through.

Enhanced power grid adaptability.

Fast response.

VSG: Virtual Synchronous Generator; VF: Voltage and Frequency;

PQ: Active and Reactive Power Control.

Equipment Parameters

Model	HYNN1500V1250kW	HYNN1500V1575kW	HYNN1500V1725kW
Max DC input voltage	1500Vdc		
DC input voltage range	1000~1500Vdc		
Max DC input current	1250kW/1000	1575kW/1000	1800A
Precision of voltage regulation	±1%		
Precision of current regulation	±1%		
PCS topology	Single layer		
DC input channel	1		
Rated AC output power	1250kVA	1575kVA	1725kVA
Rated AC output current	1150A	1449A	1587A
Rated AC output voltage	690Vac		
AC output voltage range	586.5~759Vac		
Rated grid frequency	50Hz/60Hz		
Grid frequency range	50Hz/45~55Hz, 60Hz/55~65 Hz		
Output current (THD)	<5% (Rated power)		
Power factor	≥0.99 (Rated power)		
Power factor adjustable range	-1~1		
Max power (AC)	1375kVA	1732kVA	1897kVA
Rated voltage	690V		
Voltage accuracy	±3%		
Rated output frequency	50Hz		
Output voltage THD	<3% (Linear load)		
Frequency accuracy	±1Hz		
Max efficiency	99%		
Standby power consumption	<100W		
Charge/discharge switch time	<0.1s (Rated power)		

Protection level	IP 54
Cooling	Forced cooling
Allowable environment temperature	-30°C~+55°C
Allowable relative humidity	≤95% (No dew)
Allowable max altitude	4000m (Capacity should be decreased if over 32000)
Isolation	Transformer free isolation
HMI	Touch screen
Communication	Ethernet / RS485 / CAN
Size (W*L*H)	1100*2200*1400mm
Weight	1200kg