

HEGA large C&I inverter series

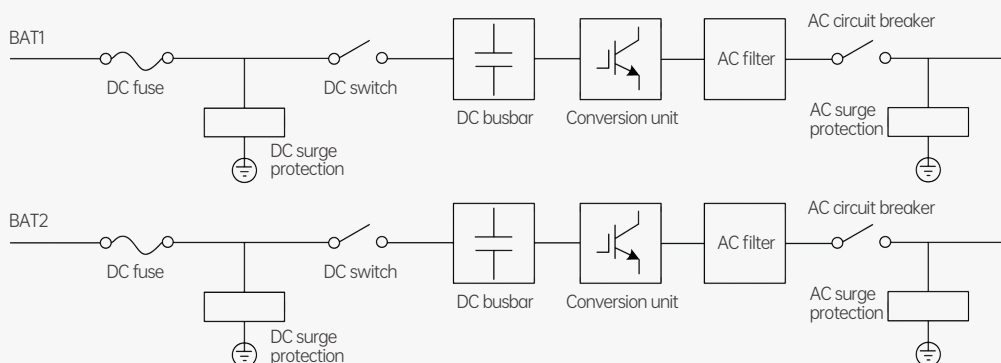
1500V-Centralised Power Conversion System



KEY FEATURES

- Compact footprint, installation area reduced by 45% (1,700 × 1,000 mm).
- Compatible with multiple energy storage media, including lithium batteries, sodium-ion batteries, flow batteries, hydrogen fuel cells, and supercapacitors.
- Supports multiple operating modes (PQ / VF / VSG) with grid-forming capability.
- Three-level topology with peak efficiency up to 99.01%.
- IP66-rated enclosure with optional C3–C5 anti-corrosion protection.
- Intelligent thermal management, no derating at ambient temperatures up to 45°C.

BLOCK DIAGRAM



Rated power (kW)	2,400	2,750	3,150	2,500	3,450
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DC data

DC voltage range (V)	696 ~ 1,500	800 ~ 1,500	920 ~ 1,500	1,000 ~ 1,500	
Max. DC current (A)	1,935*2			1,402*2	1,935*2
Number of DC input circuits	2				

AC data

Rated power (kW)	2,400	2,750	3,150	2,500	3,450
Max. output power (kW)	2,640	3,025	3,465	2,750	3,795
Reactive power range (kvar)	0 ~ 2,520	0 ~ 2,888	0 ~ 3,308	0 ~ 2,625	0 ~ 3,623
Rated AC current (A)	2,886			2,092	2,886
Grid type	3W+PE				
Isolation method	No isolation				

Grid-connected operation data

Rated grid frequency (Hz)	50 / 60				
Total harmonic distortion of current	< 3% (Rated power)				
Power factor	- 1 ~ 1				
Charge-discharge conversion time (ms)	< 30				
Voltage regulation accuracy	±1%				
Current stability accuracy	±2%				

Off-grid operation data

Rated output voltage (V)	480	550	630	690
Voltage imbalance	2%, not exceeding 4% for short periods			
THDu	< 3% (No load or rated resistive load)			
Dynamic voltage transient range	10% (under resistive load/balanced load conditions, when the load suddenly changes from 20% to 100% or from 100% to 20%)			
Output overvoltage protection value	Adjustable			
Output undervoltage protection value	Adjustable			

General data

Applicable grounding system	IT				
Max. efficiency	99.01%				
Allowable ambient temperature (°C)	- 40 ~ + 60 (Use with derating above 45)				
Allowable relative humidity	0 ~ 100% (No condensation)				
Allowable altitude (m)	< 5,000 (A reduction of over 3,000)				
Noise (dB)	75				
DI interface	Group 4				
DO interface	Group 1				
Corrosion resistance grade	C3 (C4 / C5 optional)				
Overvoltage protection	DC Type II / AC Type III				
Wiring method	Bottom-in-bottom-out				
Protection grade	IP66				
Cooling method	Intelligent heat exchange				
Indicator light	Touch screen				
Communication interface	Ethernet, RS485				
Communication protocol	Modbus TCP / RTU, IEC61850, IEC104				
Dimensions (W*H*D) (mm)	1,700*2,633*1,319 (with radiator)				
Weight (kg)	≤ 2,300				
Certification	CGC, high/low voltage ride-through				