

HEGA large C&I inverter series

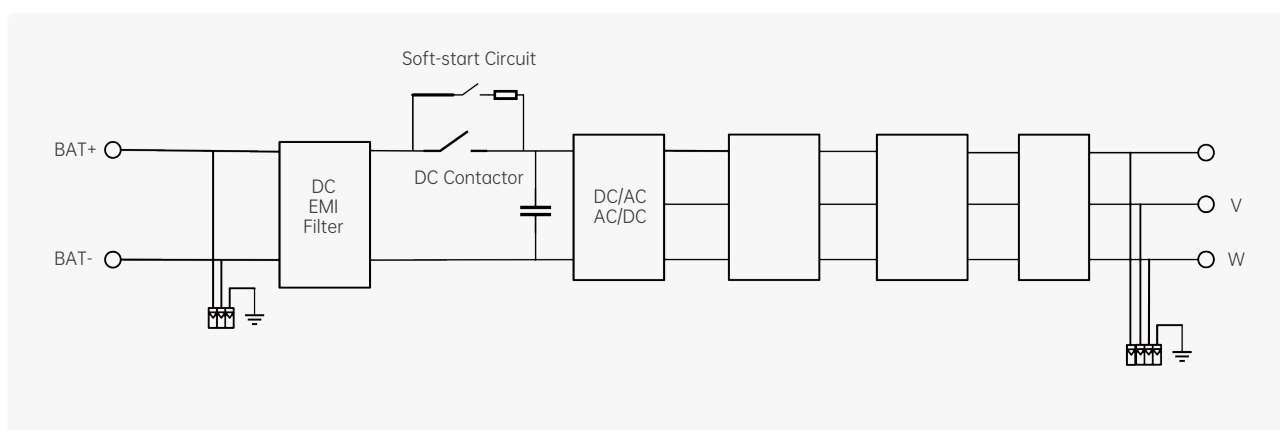
1500V-String Power Conversion System



KEY FEATURES

- PQ, VSG working mode with grid-forming function
- Supports multi-module parallel connection, flexible configuration
- IP66 & optional C4~C5 anti-corrosion degree for harsh environment
- Small size & high power density
- Modular design enables accurate management of battery

BLOCK DIAGRAM



Rated power (kW)	145	174	200	228	186	215	250
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DC data

DC voltage range (V)	580 ~ 1,500	696 ~ 1,500	800 ~ 1,500	914 ~ 1,500	1,000 ~ 1,500		
Max. DC current (A)	281				209	241	281

AC data

Rated power (kW)	145	174	200	228	186	215	250
Max. output power (kW)	160	191	220	251	205	237	275
Reactive power range (kvar)	0 ~ 152	0 ~ 183	0 ~ 210	0 ~ 240	0 ~ 195	0 ~ 226	0 ~ 262
Grid type	3W+PE						
Isolation method	No isolation						

Grid-connected operation data

Grid-connected operation data					
Rated grid voltage (V)	400	480	550	630	690
Permitted grid voltage (V)	340 ~ 440	408 ~ 528	468 ~ 605	536 ~ 693	586.5 ~ 759
Rated grid frequency (Hz)	50 / 60				
Permitted grid frequency (Hz)	45 ~ 55 / 55~65				
Total harmonic distortion of current	< 3% (Rated power)				
Power factor	- 1 ~ 1				
Charge-discharge conversion time (ms)	< 20				

Off-grid operation data

On-grid operation data					
Rated output voltage (V)	400	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%						
Allowable ambient temperature (°C)	- 40 ~ + 60 (Use with derating above 45)						
Allowable relative humidity	0 ~ 100%						
Allowable altitude (m)	< 5,000 (A reduction of over 3,000)						
Noise (dB)	75						
DI interface	Group 4						
DO interface	Group 2						
Corrosion resistance grade	C3 (C4 / C5 Optional)						
Overvoltage protection	DC Type II / AC Type III						
Wiring method	Bottom-in, bottom-out (Quick-connect terminals)						
Protection grade	IP66						
Cooling method	Intelligent Air Cooling						
Indicator light	LED indicator						
Communication interface	Ethernet, RS485, CAN, Near Field Debugging WiFi (Optional)						
Communication protocol	Modbus TCP / RTU						
Dimensions (W*H*D) (mm)	795*915*294 (No hanging board)						
Weight (kg)	≤100 (net weight)						
Certification	CGC, high/low voltage ride-through, IEC62477, IEC61000, EN50549						