

DM Series

Parallel/grid/redundancy



It can realize the parallel operation of single machine and multiple machines. It can also be used for parallel operation with the grid.



Emergency equipment power supply OEM supporting and application solutions professional service provider

Peculiarity

- »» Standardized assembly line production, high product consistency and stable quality;
- »» Use of UL wire meets international standards;
- »» Controller imported from Europe with full certification;
- »» High standard of surface treatment spray molding;
- »» QR code information printed on the panel, viewed at any time without loss;
- »» Multi-language controller (Chinese, English, German, French, Greek, Finnish and 22 other languages)
- »» Electrical circuits with surge protection diodes;
- »» Aerial plugs are defined for each pin, universal and interoperable;
- »» Customized UV printing to highlight user characteristics;
- »» Expandable to more than 32 units in groups of up to 32 for parallel projects, or 64 units in a single parallel group;
- »» Built-in PLC function to meet the needs of complex logic control;
- »» Standardized copper bar and wiring standards;
- »» Optional features of the exterior design and color matching;
- »» Open test software;
- »» Built-in USB main port (pluggable U disk storage/upgrade), all analog inputs can be connected to the voltage/current/resistance sensor, and there is a 5V base output voltage;
- »» Multilevel password protection;
- »» The parallel grid mode can be switched on the whiteboard.

»» Random attachment

Manual (electronic version), the paper version is attached with: electrical drawings, software Settings (provide requirements before ordering)

Property

Generator set operating parameters detection

- »»
 - Speed monitoring
 - Oil pressure monitoring
 - Cooling temperature monitoring
 - Three-phase voltage monitoring
 - Three-phase current monitoring
 - Power supply monitoring
 - Frequency monitoring
 - Load power factor measurement
 - Battery voltage monitoring
 - Fault history

Status indication

- »»
 - Unit operation, failure
 - Unit closing and opening instructions

Protection function

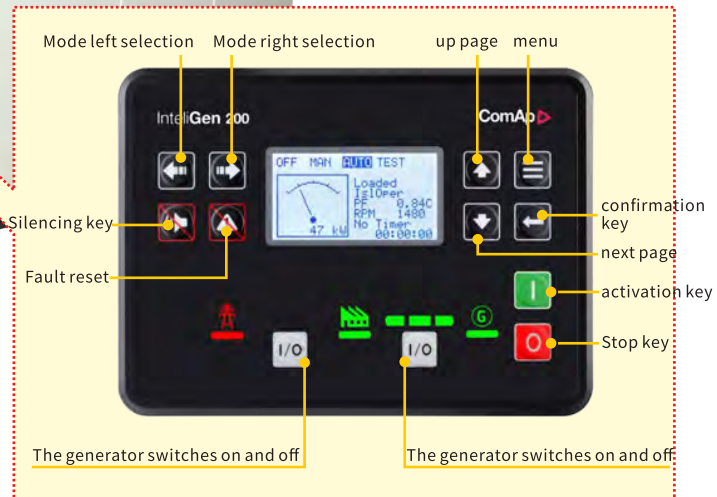
- »»
 - With overvoltage, undervoltage, overload, overcurrent, short circuit and other protection functions.
 - With speed, oil pressure, water temperature/oil temperature, battery voltage, fault alarm and automatic protection.

Startup run mode

- »»
 - Call mode: After the mains power outage, the unit performs power management according to the preset power reserve, and executes the power call mode. When the load of each unit exceeds the preset load, the next unit is called to start and distribute the load;
 - Full start mode: It is suitable for a large load when the unit is set to start and load distribution after power failure;

- Multiple language options
- Meet the requirements of various international standard communication modes and communication protocols, and can implement CANJ1939 and other series of communications
- Automatically according to the cumulative running time of the generator set, balanced replacement of power management switching unit operation

Product display



Optional parallel cabinet



Optional Controller



IG4 200



IM 210 G2



IG 500 G2



IG-1000



IS 2000



IM 1010

Description of parallel/grid-connected/redundant cabinets

»» GEB series parallel cabinets are intelligent parallel control cabinets, which can realize single machine operation, parallel operation of multiple machines or parallel operation with power grid. When running in parallel, it automatically realizes frequency/voltage adjustment, synchronous closing, active and reactive load distribution according to the set value. Comprehensive monitoring, protection and fault diagnosis functions are provided for the generator set. The control system is designed with automatic parallel system and emergency manual parallel system.

»» GEB series redundancy cabinet, using two or more controllers to form a backup redundancy protection system, when the main controller fails, you can switch the backup equipment and replace the equipment that can't work normally due to the failure through hardware, software or human way, so as to keep the system working normally and minimize the loss of the system due to accidental downtime.

»» Configuration with MNS-E, GGD, GCK or side cabinet type, ComAp Ig4 200 or IG-NTC control and paralleling module, electrically operated circuit breakers.

Component Configuration

Number	Component name	functionality
1	Combined cabinet body	
2	Parallel controller	Automatic synchronization, status monitoring
3	Motorized Circuit Breaker	Circuit protection, remote monitoring
4	Electro-operated accessories	Circuit Breaker Function Accessories
5	current transformer	measuring device
6	Three-phase insulation indication	Insulation indication
7	Indicator lights, buttons and knobs	Instruction, operation
8	potentiometers	manual fine tuning
9	Electrical Accessories	
10	mother row	

Parallel Cabinet Selection

Remark:	Model suffix: DL=Delisi, AS=Eskai, AB=ABB, SC=Schneider; G42=IG4-200 controller, GGC=IG-NTC controller, G52=IG500G2 controller, M21=IM210 controller; G1=GGD cabinet, G2=GCS cabinet; B1=2 machines 1 cabinet, B2=2 machines 2 cabinets, B3=3 machines 3 cabinets, B4=4 machines 4 cabinets, B5=5 machines 5 cabinets.;
Examples:	GEB2000-3P23FABG1G42000B3 Denotes 2000A ABB 3P Fixed Circuit Breaker, IG4-200 Controller, GGD Cabinet, 3 Machines, 3 Cabinets;
controllers:	Original imported Czech ComAp IG4-200 or IG-NTC controller;
parallel switch:	Delixi, AISIKAI, ABB, Schneider optional;
Parallel Cabinet	Cabinet + parallel switch + parallel controller IG4-200 + current transformer + APT relay, indicators, buttons and accessories (no copper);
Optional Configurations:	Parallel lead, bus, ground and zero rows are available;

Parallel cabinet external dimensions

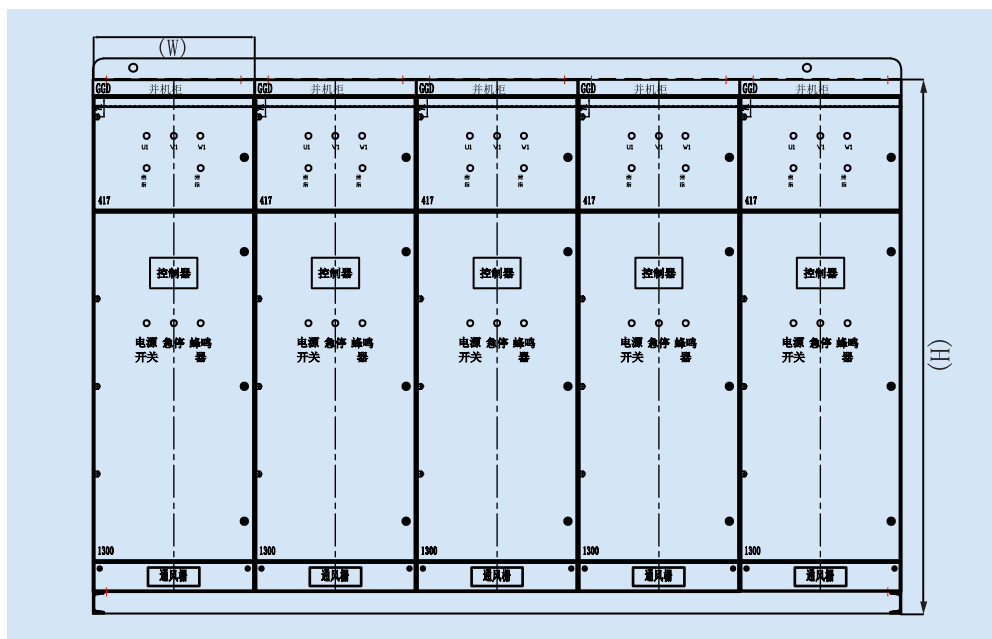
models	apply electric current	2&1 GGD cabinet	2&2Single cabinet GGD cabinet	3&3Single cabinet GGD cabinet	4&4Single cabinet GGD cabinet	5&5Single cabinet GGD cabinet
		Dimensions mm (width W * depth D * height H)				
GEB-400	400A	1000*600*1900	600*600*1900	600*600*1900	600*600*1900	600*600*1900
GEB-500	500A	1000*800*1900	600*800*1900	600*800*1900	600*800*1900	600*800*1900
GEB-630	630A	1000*800*1900	600*800*1900	600*800*1900	600*800*1900	600*800*1900
GEB-800	800A	1000*800*1900	600*800*1900	600*800*1900	600*800*1900	600*800*1900
GEB-1000	1000A	1200*800*1900	800*800*1900	800*800*1900	800*800*1900	800*800*1900
GEB-1250	1250A	1200*800*1900	800*800*1900	800*800*1900	800*800*1900	800*800*1900
GEB-1600	1600A	1200*800*1900	800*800*1900	800*800*1900	800*800*1900	
GEB-2000	2000A	1200*1000*1900	800*1000*1900	800*1000*1900		
GEB-2500	2500A	1200*1000*1900	800*1000*1900			
GEB-3200	3200A	1400*1000*1900	1000*1000*1900			
GEB-4000	4000A	1400*1000*1900	1000*1000*1900			

Dimensions of 5 machines and 5 cabinets

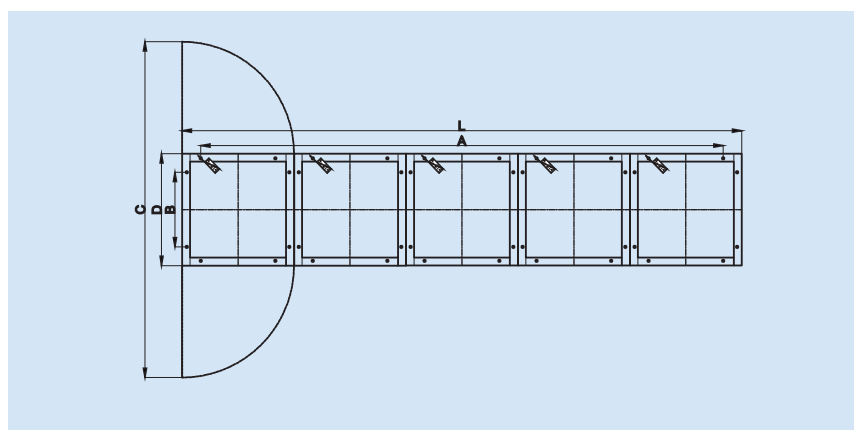
Electric current (A)	Dimensions/mm (W*D*H)	Open external dimensions/mm (L*C*H)	Packaging size/mm (E*F*I)	Installation size/mm (L*C*H)	Weight/(kg)
400	600*600*1900	3000*1800*1900	3100*700*2040	2600*400	733
500	600*800*1900	3000*2000*1900	3100*700*2040	2600*600	875
630	600*800*1900	3000*2000*1900	3100*700*2040	2600*600	934
800	600*800*1900	3000*2000*1900	3100*900*2040	2600*600	1052
1000	800*800*1900	3000*2200*1900	3100*1100*2040	2600*800	1154
1250	800*800*1900	3000*2200*1900	3100*1100*2040	2600*800	1621

Outline dimension drawing of 5 machines and 5 cabinets

»» Outline dimension

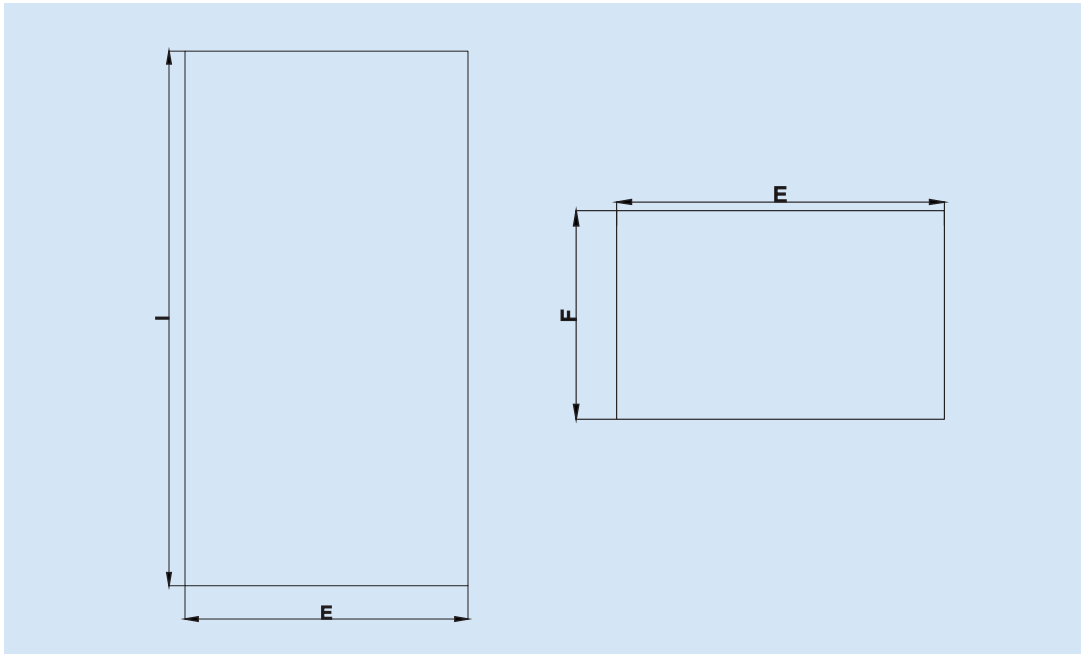


»» Open the external dimension diagram

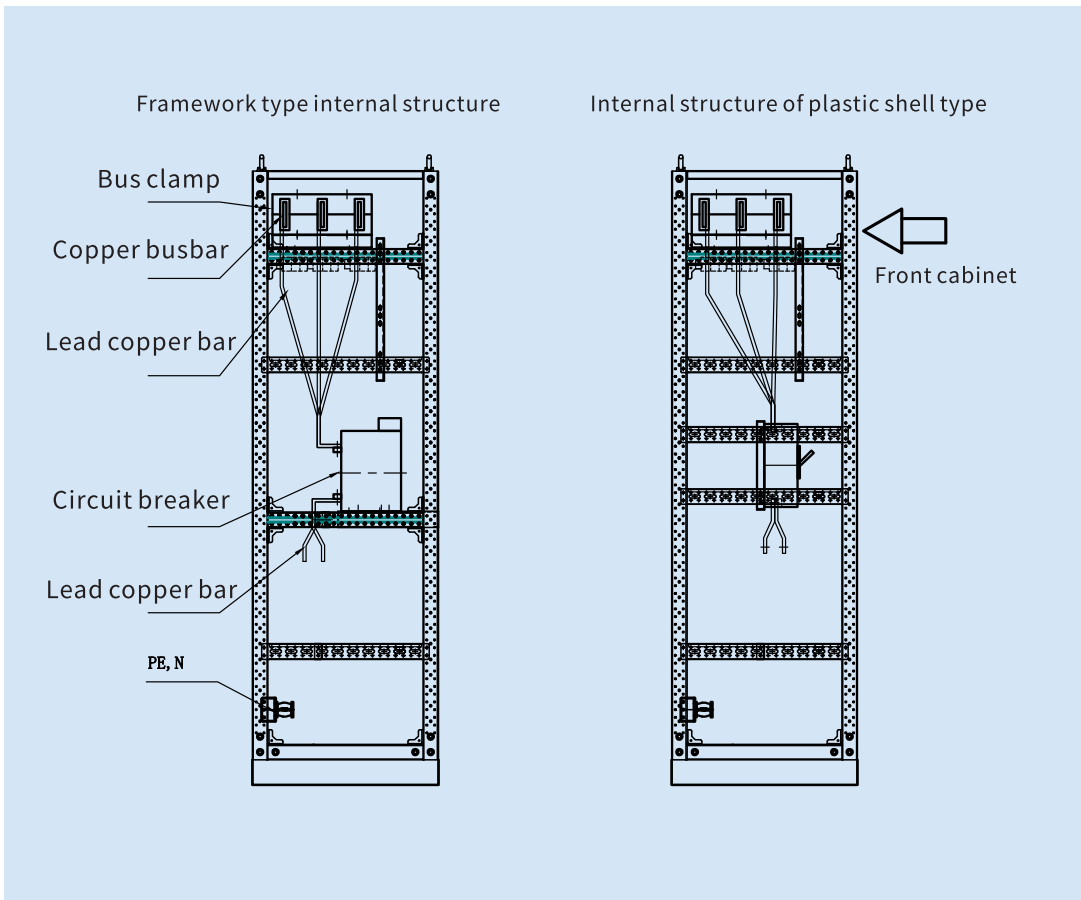


Parallel/grid/redundancy

»» Packaging dimension diagram

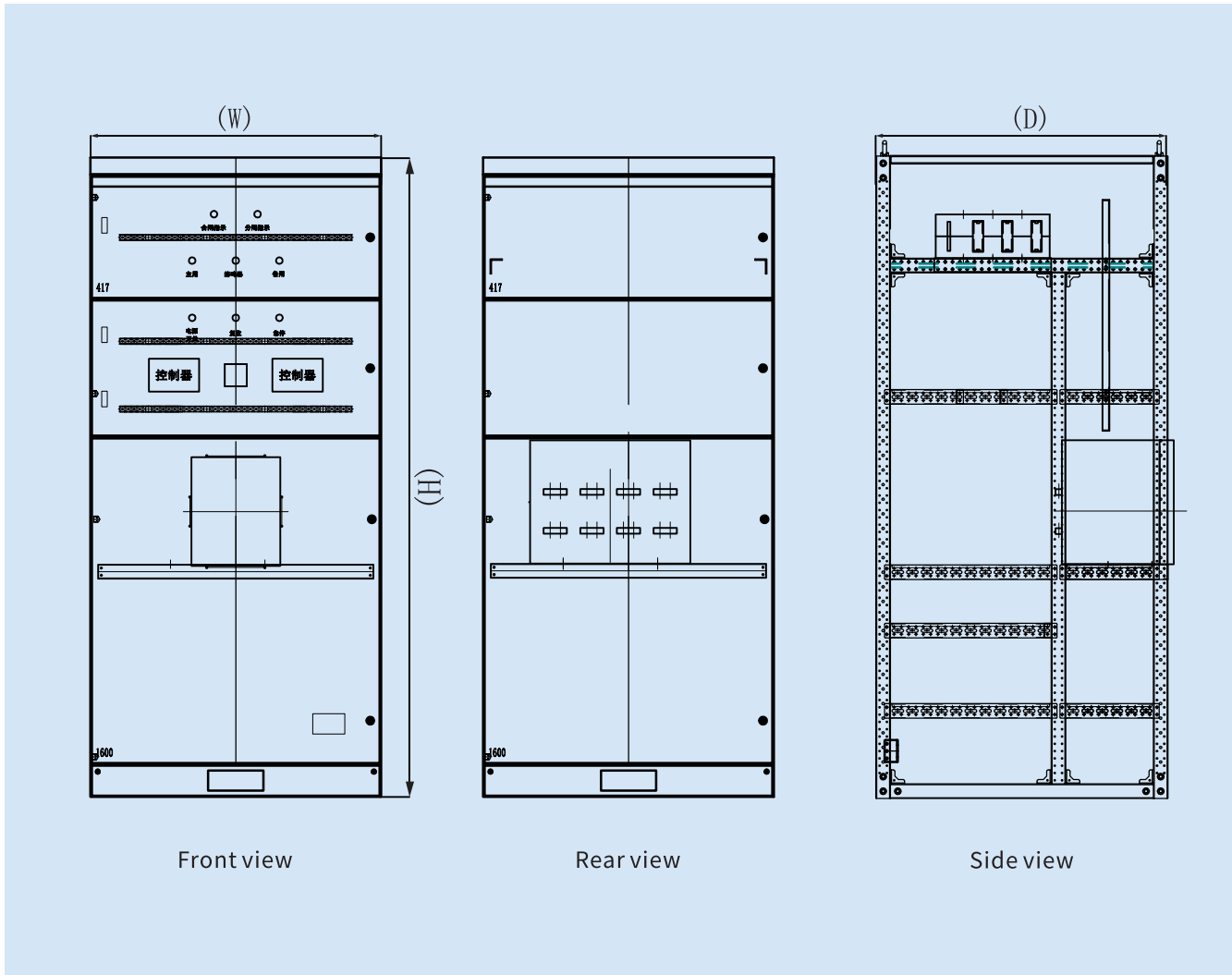


»» Internal structure of frame type and plastic shell type



Parallel/grid/redundancy

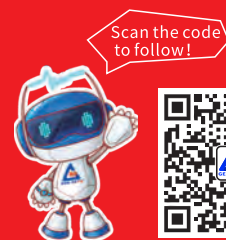
»» Redundant cabinet size diagram



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*The information contained in this manual is for reference only, and does not constitute any contractual component, the final interpretation right belongs to Fuzhou DuoMeng Electric Control Equipment Co. Product parameters may be adjusted at any time, for more product information, please contact us!

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