

DM Control Cabinets



GEK series control cabinet
Realize start-stop control of generator
sets and state detection and protection



GEK Series Head Cabinet Model A

GEK Series Side cabinet Model B

GEK Series Side cabinet Model C

GEK Series Side cabinet Model D



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

Specificities

- » 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 adaptation of the controller (Chinese, English, German, French, Greek, Finnish and 22 other languages)
- » Electrical circuits with surge protection diodes;
- » Aerospace plugs are defined for each pin, universal and interoperable;
- » Customized uv printing that highlights user characteristics;
- » Adoption of aviation connectors, convenient and user-friendly on-site configuration and reliability.;
- » ComAp Controller, Off/Manual/Auto/Test Mode Selection;
- » Surge protection diodes for relay circuits;
- » The control cabinet is equipped with the MU318MC-HL control circuit board, the main advantages of the control circuit board:
 - a) Because of the repeatability (reproducibility) and consistency of the circuitry, the use of circuit boards reduces wiring and assembly errors and saves time for maintenance, debugging and inspection of the equipment.
 - b) The design can be standardized, facilitating interchangeability.
 - c) high wiring density, small size, light weight, conducive to the miniaturization of electronic equipment.
 - d) The control circuit board is equipped with emergency start and stop function, in the case of controller failure, the generator set can be started by the dip switch on the control circuit board;
 - e) AC and DC insurance distinction.



Self-developed
control circuit board

Performances

Genset operation parameter testing

- Generator and utility three-phase voltage monitoring-Generator three
- phase current monitoring
- Three-phase power monitoring of generator (active power, reactive power, kWh and power factor)
- Frequency monitoring
- Rotational speed
- Cooling water temperature and oil pressure
- Battery voltage

Status indication

- Working condition
- Fault alarm

Protection function

- Over/under voltage, over/under frequency, overload, over current, short circuit and other protection functions
- Over/low speed, oil pressure, water/oil temperature, battery voltage, startup failure and other fault alarm protection function
- Emergency shutdown.
- The controller is equipped with PLC function
- Built-in USB main port [pluggable U disk storage/upgrade] (IL4-MRS16, IL4-AMF20, IL4-AMF25)
- All analog inputs can be connected to voltage/current/resistance sensors and have a 5V reference output voltage
- 5 languages can be stored inside the controller
- Rental dedicated timer
- Support GPS positioning, tracking and geographic fencing

Configure

Main Configurations

- » Comay Controller, Integrated Control Board, Beep, Emergency Stop, UL Wire.

Optional Configurations

- » Supports GPS positioning, tracking, and geo-fencing;
- » The use of aviation connectors, convenient and user site use of discretionary configuration and reliability;
- » Float charger.

Product Showcase



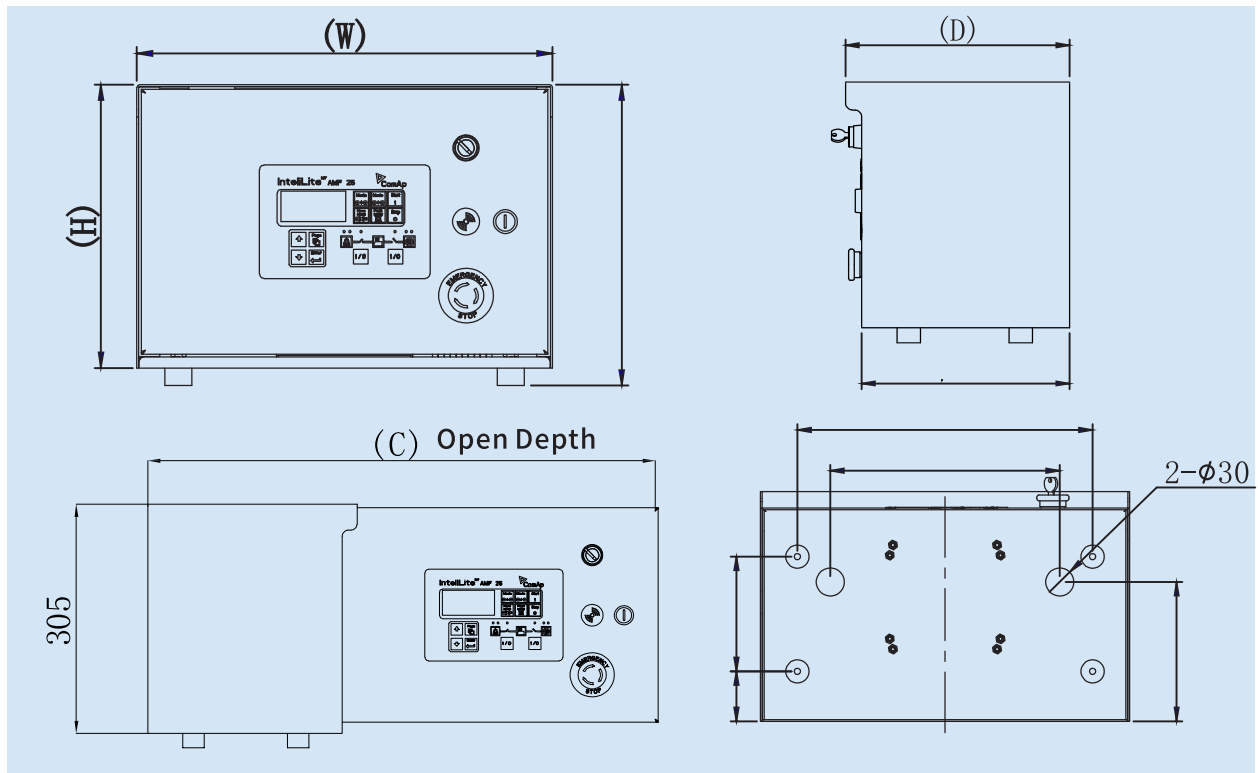
Optional controller and functions

Model number parameters	Stand-alone				Parallel operation	
						
	Nano AMF5	IL4AMF8	IL4AMF20	IL4AMF25	InteliGen4 200	InteliGen 500
Opening size	116mm*90mm	173mm*113mm	188mm*133mm	188mm*133mm	188mm*133mm	188mm*133mm
Bi input port	5	8	8	8	8	8
Bo input port	6	8	8	8	8	8
Ai input port	3	4	4	4	4	4
USB	-	-	-	Standard configuration	Standard configuration	Standard configuration
USB-B	USB-C	Standard configuration	Standard configuration	Standard configuration	Standard configuration	Standard configuration
Rs485	Optional	Optional	Optional	Standard configuration	Standard configuration	Standard configuration
PLC		Standard configuration	Standard configuration	Standard configuration	Standard configuration	Standard configuration
Historical record	100	150	350	350	350	500
Built-in language	2	5	5	5	5	5
Optional expansion	EM-BIO8-EFCP、Inteli IO8/8、I-IO16/0、IGS-PTM、IGL-RA15、I-AIN8、IAIN8TC、I-AI09/1					
Optional extension communication card	CM-RS232-485、CM3-Ethernet、CM2-4G-GPS-AirGate、GPRS-AirGate					

Head Cabinet A Cabinet Dimensions

Controller Model	Overall dimensions /mm (W*D*H)	Open the exterior ruler/mm (W*C*H)	Package Size /mm (W*D*H)	Weights (kg)
InteliNano AMF5	450*280*305	450*679*305	490*320*345	20
IL4-AMF8	450*280*305	450*679*305	490*320*345	20
IL4-AMF9	450*280*305	450*679*305	490*320*345	20
IL4-AMF20	450*280*305	450*679*305	490*320*345	20
IL4-AMF25	450*280*305	450*679*305	490*320*345	20
IL4-MRS16	450*280*305	450*679*305	490*320*345	20
IG4-200	450*280*305	450*679*305	490*320*345	20
IG500G2	450*280*305	450*679*305	490*320*345	20
IM210G2	450*280*305	450*679*305	490*320*345	20

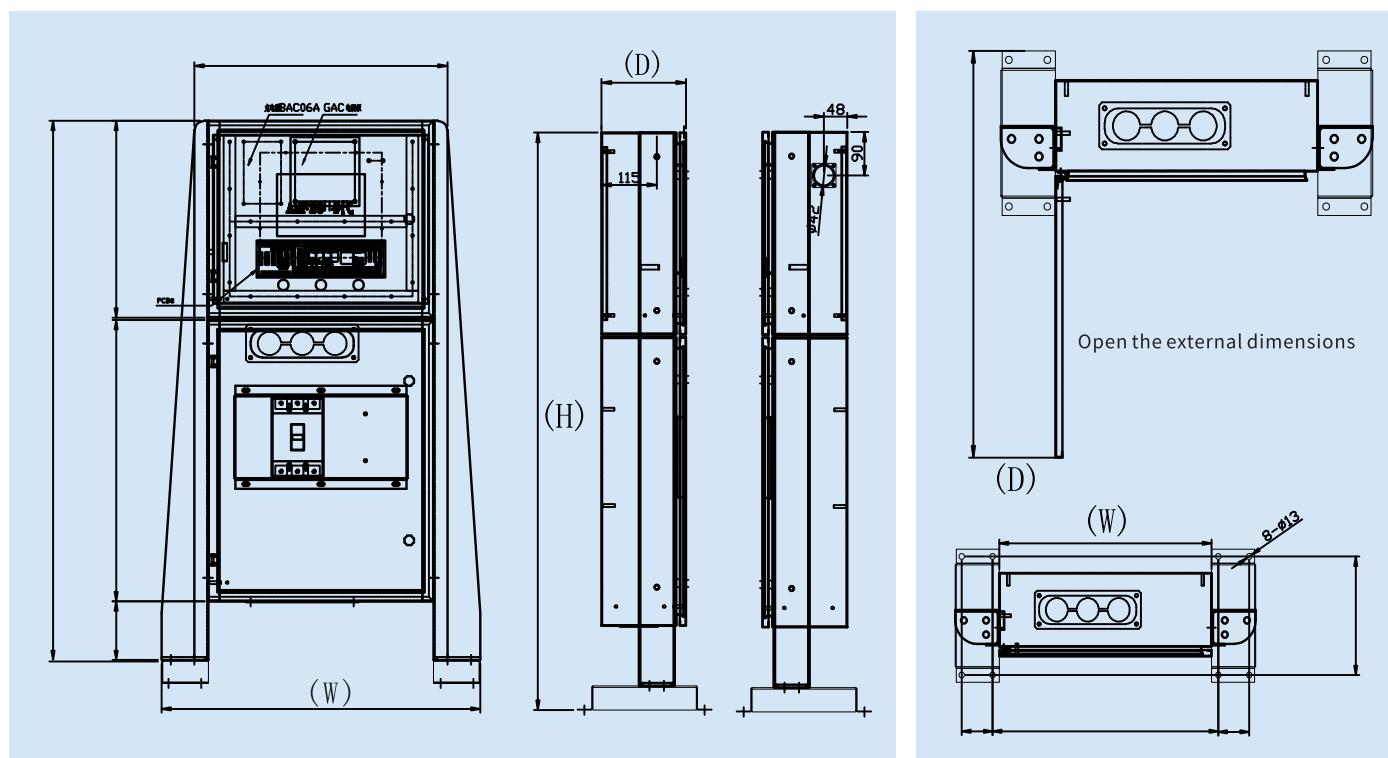
Head Cabinet Model A External Dimensions



Side cabinet B type cabinet size

Rated current (A)	Exterior dimensions /mm (W*D*H)	Open the exterior ruler /mm (W*D*H)	Packaging and transportation dimensions/mm (W*D*H)	Installation ruler /mm (W*D)	Weights (kg)
63	680*175*1150	680*692.5*1150	720*245*1190	650*250	35
80	680*175*1150	680*692.5*1150	720*245*1190	650*250	35
100	680*175*1150	680*692.5*1150	720*245*1190	650*250	35
125	680*175*1150	680*692.5*1150	720*245*1190	650*250	35
160	680*175*1150	680*692.5*1150	720*245*1190	650*250	35
180	680*175*1150	680*692.5*1150	720*245*1190	650*250	35
200	680*175*1150	680*692.5*1150	720*245*1190	650*250	35
225	680*175*1150	680*692.5*1150	720*245*1190	650*250	35
250	680*175*1150	680*692.5*1150	720*245*1190	650*250	35
320	680*240*1150	680*692.5*1150	540*280*1190	650*250	50
350	680*240*1150	680*692.5*1150	540*280*1190	650*250	50
400	680*240*1150	680*692.5*1150	540*280*1190	650*250	50
500	680*240*1150	680*692.5*1150	540*280*1190	650*250	50
630	680*240*1150	680*692.5*1150	540*280*1190	650*250	50
700	680*240*1150	680*692.5*1150	540*280*1540	650*250	65
800	680*240*1150	680*692.5*1150	540*280*1540	650*250	65
1000	680*240*1150	680*692.5*1150	540*280*1540	650*250	65
1250	680*240*1150	680*692.5*1150	540*280*1540	650*250	65
1600	680*240*1150	680*692.5*1150	540*280*1540	650*250	65

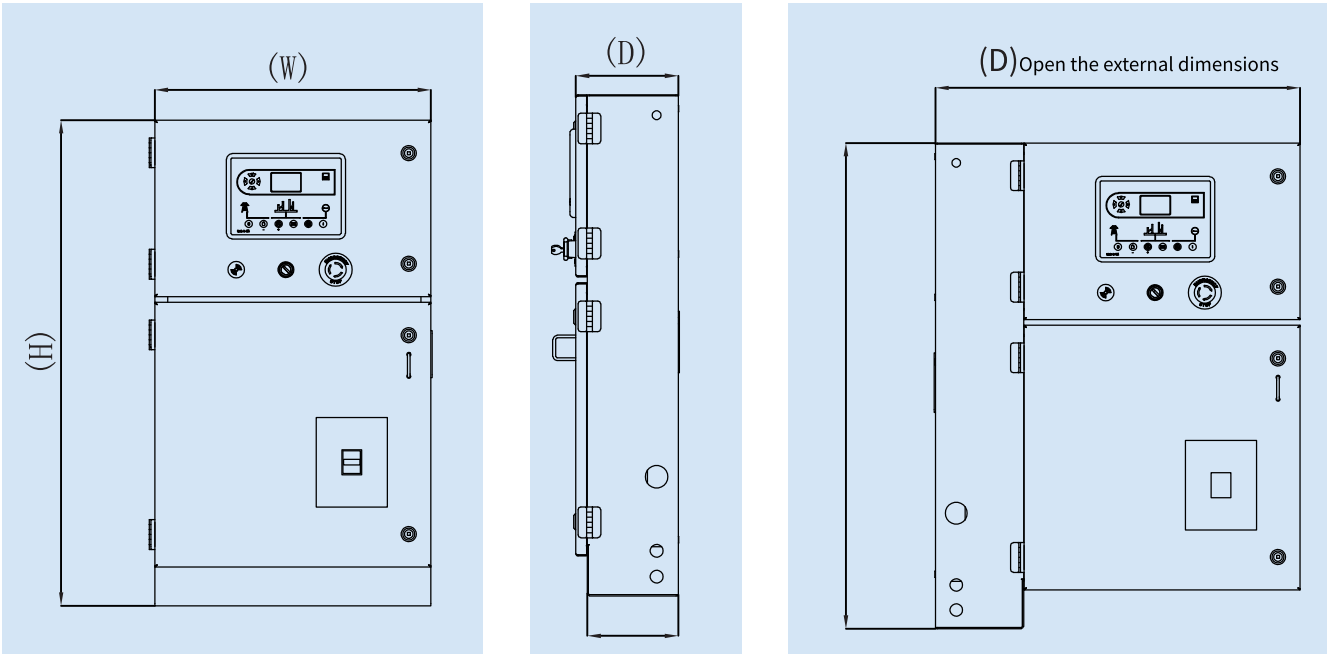
Side cabinet B type outline size drawing



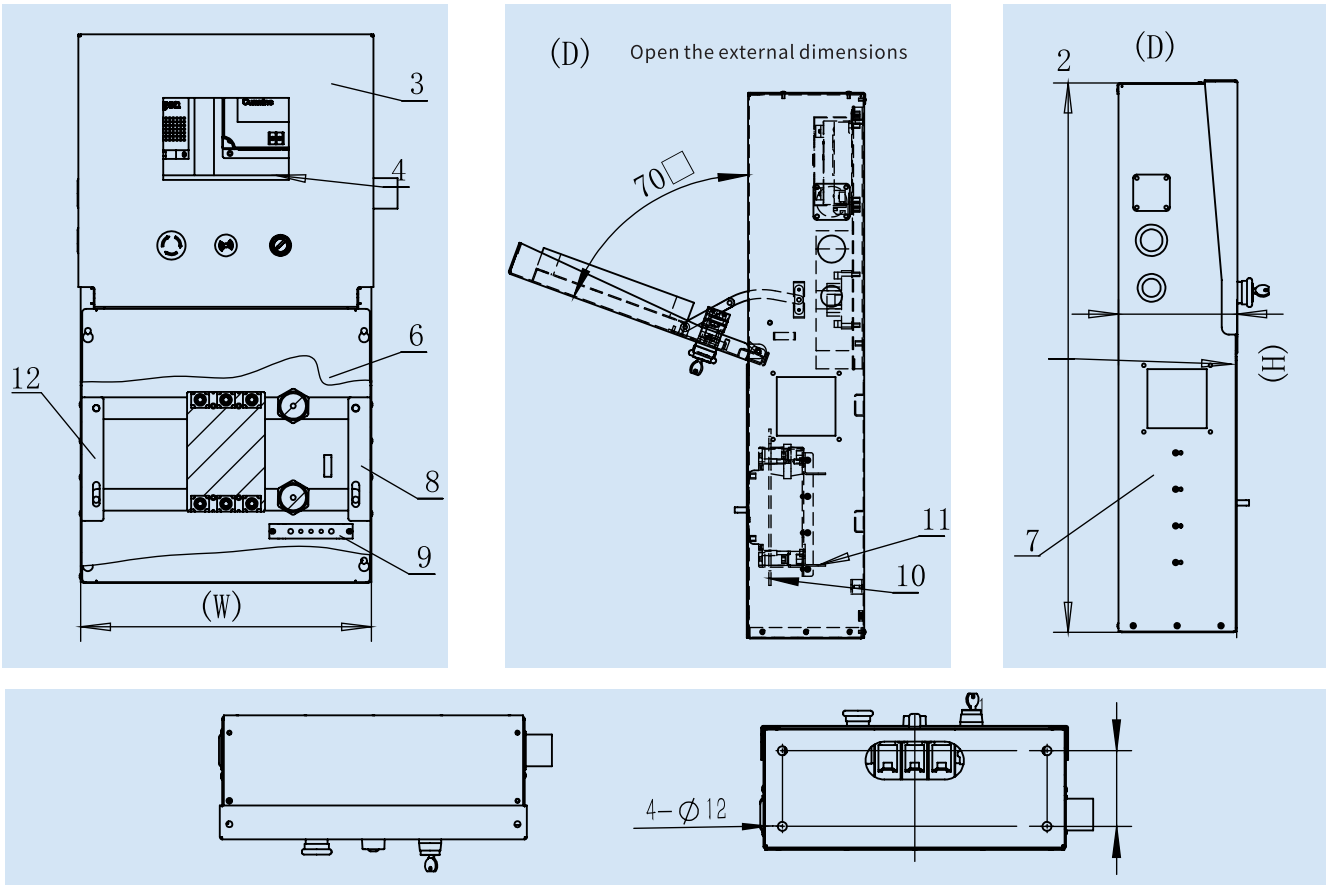
Side cabinet C&D type cabinet size

Rated current (A)	Exterior dimensions /mm (W*D*H)	Open the exterior ruler /mm (W*D*H)	Packaging and transportation dimensions /mm (W*D*H)	Installation ruler /mm (W*D)	Weights (kg)
63	400*165*755	400*565*755	440*205*795	350*100	30
80	400*165*755	400*565*755	440*205*795	350*100	30
100	400*165*755	400*565*755	440*205*795	350*100	32
125	400*165*755	400*565*755	440*205*795	350*100	32
160	400*165*755	400*565*755	440*205*795	350*100	35
180	400*165*755	400*565*755	440*205*795	350*100	35
200	400*165*755	400*565*755	440*205*795	350*100	35
225	400*165*755	400*565*755	440*205*795	350*100	37
250	400*165*755	400*565*755	440*205*795	350*100	37
320	500*240*900	500*740*900	540*280*940	450*180	45
350	500*240*900	500*740*900	540*280*940	450*180	45
400	500*240*900	500*740*900	540*280*940	450*180	50
500	500*240*900	500*740*900	540*280*940	450*180	50
630	500*240*900	500*740*900	540*280*940	450*180	50
700	500*240*1350	500*740*1350	540*280*1390	450*180	60
800	500*240*1350	500*740*1350	540*280*1390	450*180	60
1000	500*240*1350	500*740*1350	540*280*1390	450*180	65
1250	500*240*1350	500*740*1350	540*280*1390	450*180	65
1600	500*240*1350	500*740*1350	540*280*1390	450*180	75

Side cabinet C type outline size drawing



Side cabinet D type outline size drawing



DM CONTROL CABINETS



GE Series Harnesses

Cable standard: UL1015 cable that complies with the US UL standard;

Voltage level: 600V, suitable for the voltage requirements of various internal connection wires of electrical equipment;

Temperature resistance level: 105 degrees Celsius, with high heat resistance, ensuring stable operation at high temperatures.

Wire Harness Features and Colors

Number	Color	Models	Use	Specific distribution
1	black	AWG-14	DC Negative	Power inlet
2	black	AWG-18	DC Negative	Control power supply
3	brown	AWG-14	DC Positive	Power inlet
4	brown	AWG-18	DC Positive	Control power supply
5	orange	AWG-18	Switching Signal	Water temperature, oil pressure, water level, oil level switch quantity
6	yellow	AWG-18	L1(Voltage L1)	Mains/generation voltage U phase
7	yellow	AWG-14	L1(Voltage L1)	Mains/generation current V phase
8	green	AWG-18	L2(Voltage L2)	Mains/generation voltage W phase
9	green	AWG-14	L2(Voltage L2)	Mains/generation current phase IA
10	red	AWG-18	L3(Voltage L3)	Mains/generation voltage IB phase
11	red	AWG-14	L3(Voltage L3)	Mains/generation current IC phase
12	blue	AWG-18	N (Voltage N)	Mains/power generation N line
13	purple	AWG-18	Analog signals	Water temperature, oil pressure, oil level simulation
14	grey	AWG-18	AC control line	Closing, Opening, AC Relay
15	white	AWG-18	DC control line	DC Relay
16	white	AWG-14	DC control line	Starting, Fuel, Charging, Actuator
17	Yellowish green	RV	grounding	Cabinet doors, transformers and other grounding
18	Black shield wire	RVVP2*0.75	Significant Signal Lines	RPM, communication, speed control, voltage signalscontrol

Integrity Doing things efficiently Expert Service

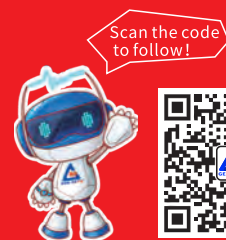
24H Service Hotline:

400-700-9669

www.multi-unionpower.com

Floor 12, Buliding D, Unis Sci-Tech Park, Fuzhou, Fujian, China

Building13, The Songshan Area of Fuzhou Taiwanese Investment Zone,
Songshan Town, Luoyuan County, Fuzhou, Fujian



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