

G-MAX Series Quick Installation Guide

1. Packing List



A



B



C



D



E



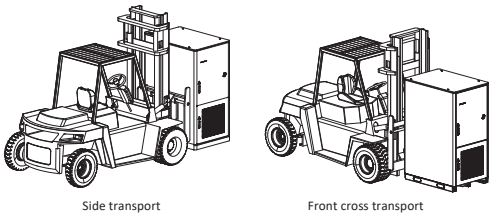
F

Object	Quantity	Description	Object	Quantity	Description
A	1	G-MAX	D	4	Eyebolt
B	3	AC terminal	E	1	Sealing clay
C	1	N-Wire Terminal	F	1	Quick Installation Guide

2. Portage

Forklift handling capacity ≥3t
Crane lifting capacity ≥3t

2.1 Forklift handling
Adjust the forklift tine width dimension so that the center of gravity falls in the center of the tines.

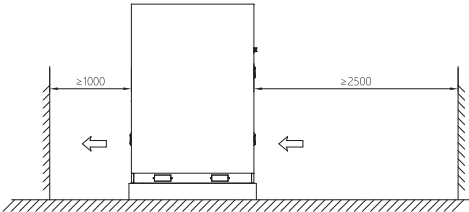


2.2 Crane handling
Choose flexible sling or strap, single strap can bear weight not less than 3t.
Tie the cabinet tightly with straps and operate according to the following figure.
The hook is at least 1m from the top of the cabinet.
The tilt of the cabinet should be less than 10°.



3. Installation site requirements

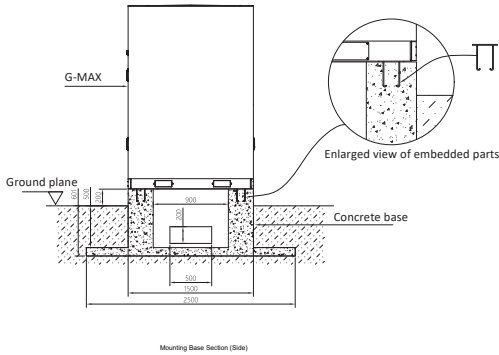
Installation Space Requirements
G-MAX installation location should be reserved enough space for maintenance and heat dissipation and ventilation, the recommended space dimensions are shown below.



4. G-MAX Fixed

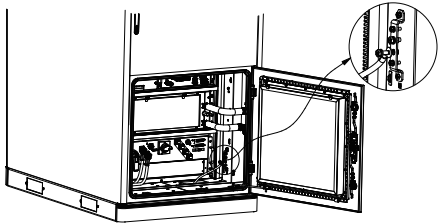
Foundation Requirements
G-MAX must be mounted on concrete or other non-combustible surfaces, and the mounting plane must be level, firm, and flat with sufficient bearing capacity.

- Notes
- The following foundation drawings are not to be considered as final construction drawings and are for reference only.
 - During construction, ensure that the bottom of the equipment is above the highest historical local water level.
 - Equipment (including height, pre-buried parts, threading pipes, etc.) is adjusted according to the process and site.
 - The height of the top mark of the equipment foundation can be adjusted according to the equipment and the actual needs of the site.
 - The equipment foundation is configured according to the total weight of the equipment which is not more than 3t, when the weight of the equipment exceeds the design, it needs to be reviewed.
 - If the installation is carried out on a hard surface, it can be fixed by welding and bolting, and the fixed connection points can be adjusted according to the actual situation on site.

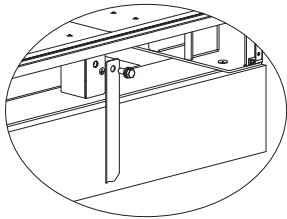


5. G-MAX Wiring

System grounding, for the user through the incoming cable laid into the cabinet PE line, wire diameter requirements ≥ 35mm², grounding position as follows:



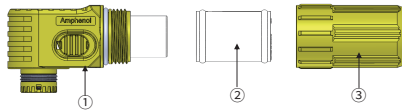
There are two types of grounding methods for enclosure grounding: welding and fixing with grounding flat steel or fixing with grounding cable. The location of the grounding point is shown below:



The cable requirements for the G-MAX to be used within a proximity installation distance of 100 meters are as follows:

Title	mould	Recommended wire diameter (mm ²)
External Ground Wire	Outdoor grounding conductor for 1000V and above	35mm ² (yellow-green)
AC side input line	Outdoor multi-core or single-core cables of 400V and above	U/V/W three-phase is 70mm ² , OD: 16.5±1.0mm N line is 70mm ² (blue), OD: 16.5±1.0mm.

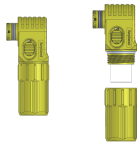
Crimp AC input line



Item	Components description	Quantity
①	Connector Body	1
②	Grommet	1
③	Rear Shell	1

Crimping step

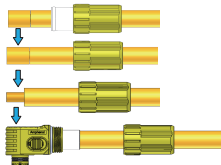
1. Un-assemble rear attachments.



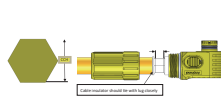
2. Wire stripping



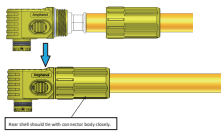
3. Preloaded rear attachments.



4. Crimp the lugs.



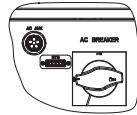
5. Assemble the rear accessories.



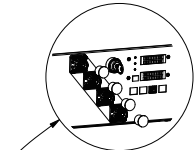
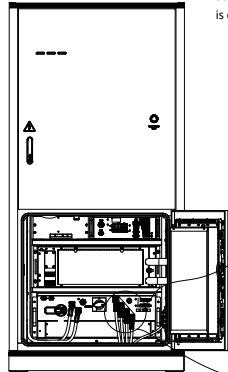
AC Input Wiring

Before grounding the cables, it is necessary to add identification (in any form) to the cables to avoid wiring anomalies; Ensure that all cables are uncharged before making electrical connections.

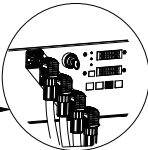
Prohibit closing the AC circuit breaker switch until the G-MAX electrical connection is complete and its AC circuit breaker is OFF.



Step 1: Ensure that the external AC circuit breaker is disconnected and does not accidentally close.



Step 2: Remove the dust caps from the AC U, V, W, and N receptacles.



Step 3: Plug U, V, W and N in pairs into the corresponding sockets of the converter.

6. G-MAX Start-Up

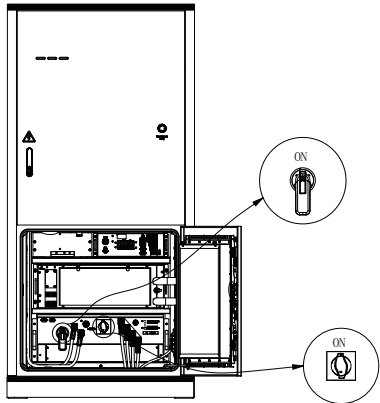
6.1 Pre-power-up checks

Before powering up, please double check the following items to make sure they are correct.

- Check the positive and negative wiring of the battery PACK and the PCS power cable wiring for correctness.
- Check that the battery PACK, PCS, battery wiring cabinet power circuit wiring and all connector plugs and sockets should be free of looseness.
- Check that there is no short circuit between the positive and negative terminals of the PACK.
- Check the battery PACK, PCS, power distribution box, battery power supply cabinet auxiliary power supply wiring and communication wiring should be reliably connected.
- Check that the battery PACK, PCS, distribution box, liquid cooling unit and EMS should be reliably grounded.
- Check whether there is any coolant leakage from battery PACK and liquid cooling pipeline.
- The circuit breaker inside the distribution box in the electrical compartment and the PCS AC side circuit breaker and PCS DC side disconnect switch should be in an open state.
- The protective cover inside the equipment is firmly installed.
- Use a multimeter to check whether the AC and DC side voltages meet the starting conditions and there is no danger of over-voltage.
- All safety signs and warning labels on the cabinet are securely attached and clearly visible.
- Check to make sure that no tools or parts have been left inside the unit.

6.2 Power-up procedure

1. Test the voltage between BAT+ and BAT- with a multimeter, voltage range 672-876Vdc.
2. Close the PCS DC Isolation Switch DC Switch and after about 3 seconds the green Power indicator on the PCS panel will start flashing.
3. Close the PCS AC Breaker.
4. Close the distribution box Liquid and Tr circuit breakers.
5. Check if the cabinet door indicator is normal.



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