

SOFAR POWER MAGIC System Checklist

Please complete this checklist when you purchase a SOFAR Power Magic System and send it to:

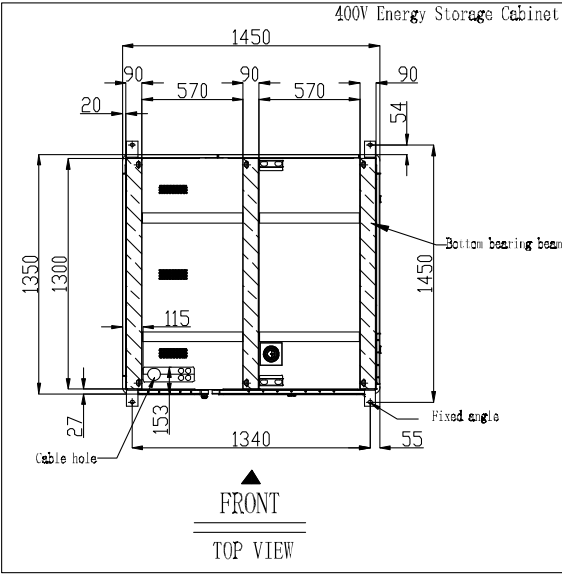
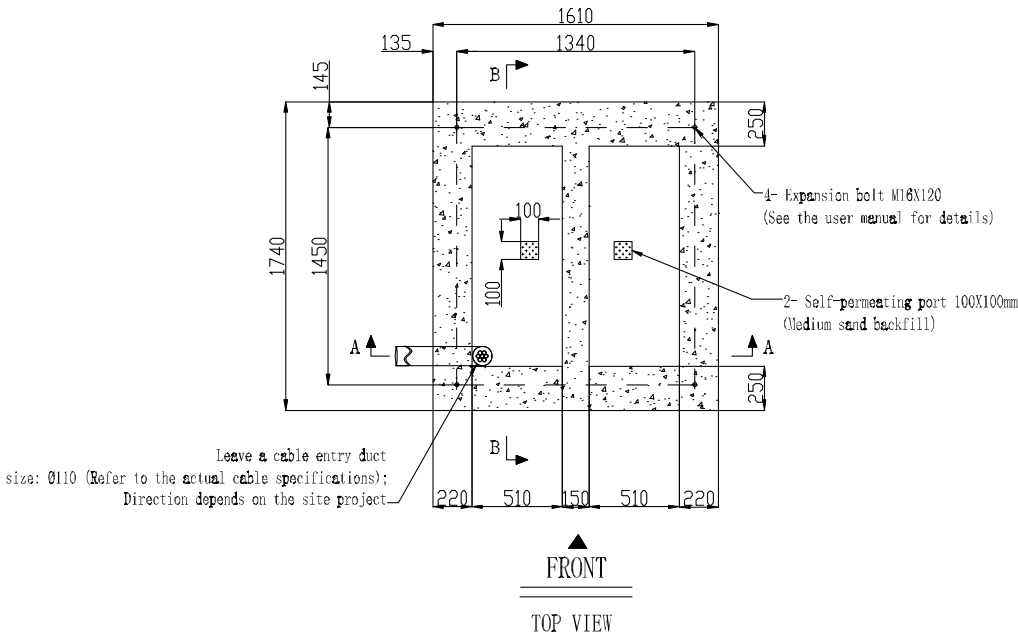
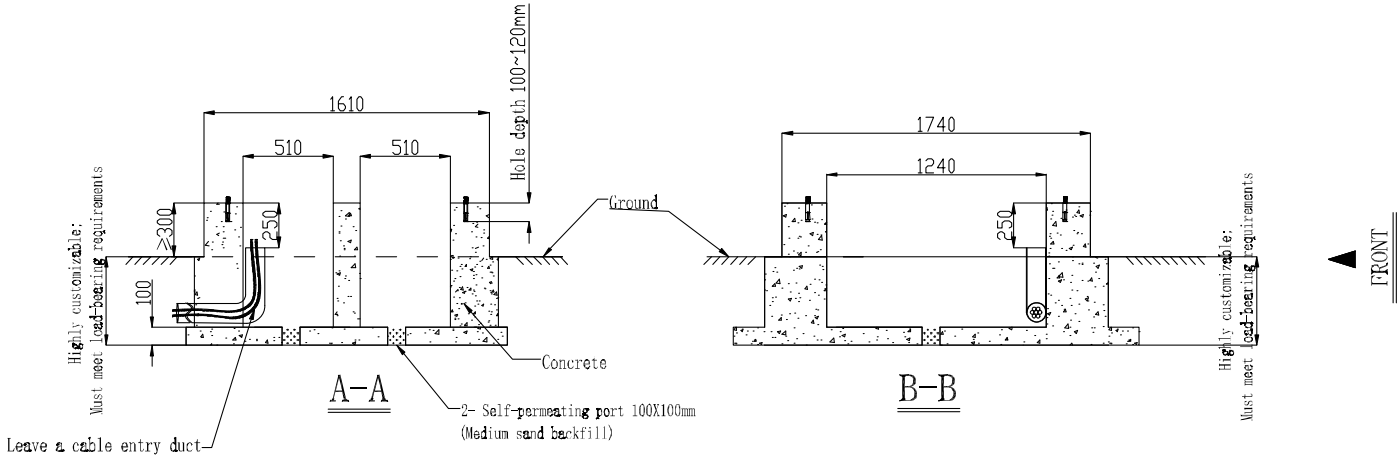
service.magic.eu@sofarsolar.com

The SOFAR technical team will contact you to plan the execution of the project.

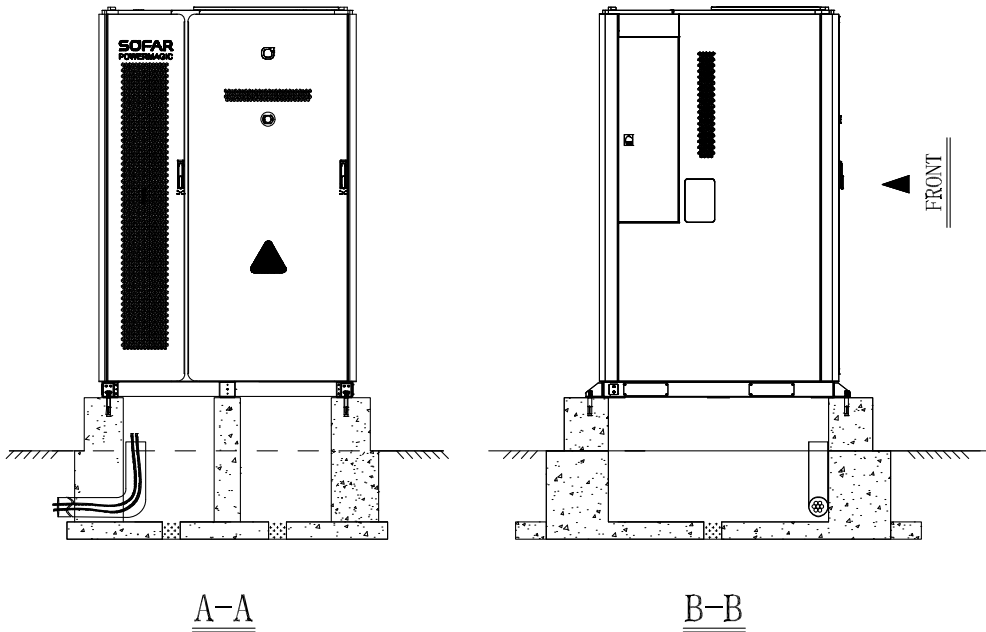
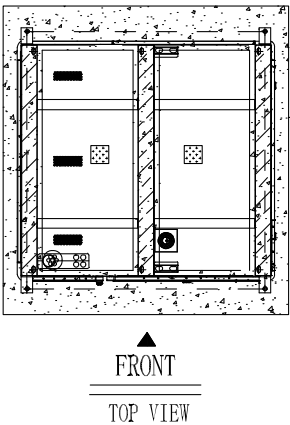
Project	Name of the project	
	Location address or geo-coordinates	
Contact us	EPC/Installation company	
	Sales tax number	
	Address	
	Zip code, city, country	
	Name of the contact person	
	Contact e-mail	
	Contact telephone	
System	Desired battery capacity of the system (kWh)	
	Required power of the system (kVA)	
	Voltage of the grid connection (e.g. 400V, 15 kV)	
	Mains standard (e.g. VDE AR-N 4110)	
	Special certificates required?	
	Special technical requirements?	
	Special transformer for the system?	☐
	Substrate type (e.g. foundation, asphalt)	☐
	Additional steel bases required?	☐
Application	Area of application (e.g. factory, office building)	
	Planned full cycles per day	
	PV self-consumption	☐
	PV feed-in time optimization	☐
	Grid peak load coverage	☐
	Emergency power	☐
	Energy trading (FCR, FFR, etc.)	☐
	Other (description)	

Communication	Energy management system (brand)	
	Modbus TCP	☐
	IEC 104	☐
	DNP 3	☐
	Other (Description)	
Location information	Load type	
	Load profile (attach)	☐
	Daily electricity consumption (kWh)	
	PV system PV output (kWp)	
	PV system AC power (kW)	
	PV inverter info (brand, type, number, power)	
	Size of the diesel generator (kVA)	
	Transformer info (capacity, voltage)	
	System circuit diagram (attach)	☐
Dates	Planned date of grid connection approval	
	Planned installation date	
	Planned commissioning date	
	Duration of the guarantee	

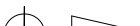
Date	ECN	Revision description
2024/6/28	NA	First revision



Product adaptation diagram



- Technical requirement:
- Local base map is only used for illustration, specific construction plan is made by the design institute!
 - It needs to be explained that the total weight of the energy storage is about 3,000 kg, and the bearing capacity of the foundation needs to be greater than 6,000 kg!
 - The equipment is installed on a concrete base, and it is recommended to reserve four M16 expansion bolt holes on the installation surface; The depth is 100mm (M16*120 expansion bolt), the length of the exposed expansion bolt should ensure that the nut is tightened and the threads are exposed 6-8 teeth;
 - The foundation is a C25 concrete structure, and before the foundation construction, a 100mm sub-layer construction should be carried out first;
 - The installation surface needs to be flattened and treated to ensure that the installation surface is level, and the surface tolerance requirement is $\pm 1\text{mm}$;
 - The ground above the foundation must be higher than the local record water level and at least 300mm above the level ground; If the self-permeating port inside the foundation cannot meet the drainage requirements, a separate drainage channel is required;
 - It is recommended to reserve cable conduits (specific dimensions can refer to the selected diameter specifications of the demand side, retain sufficient excess, and facilitate wiring);
 - All matters not mentioned in the figure shall be subject to the current norms of the country where they are located. Unit: mm.

				SOFAR Shenzhen SOFARSOLAR Co., Ltd.					
		Mapable Unit	A3	Ratio:	1:1	Name: foundation of One 400V Energy Storage Cabinet			
Design:		Date:		Weight:					
Check:		Date:		Unit:	mm	Part Number			
Ratify:		Date:		versions:		First page		One page in total	

A

B

C

D

E

F

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Date	ECN	Revision description
2024/6/28	NA	First revision

A

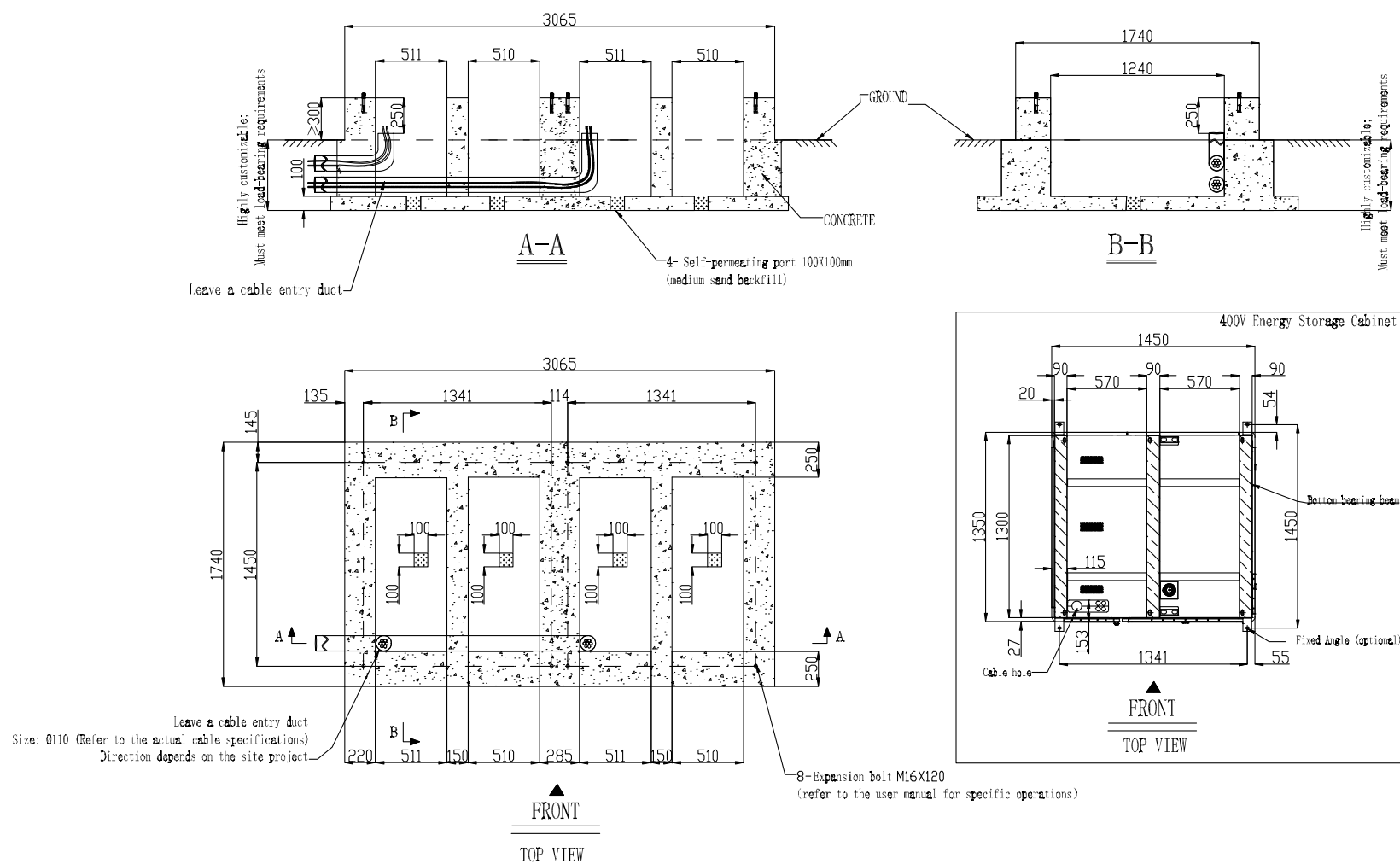
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C

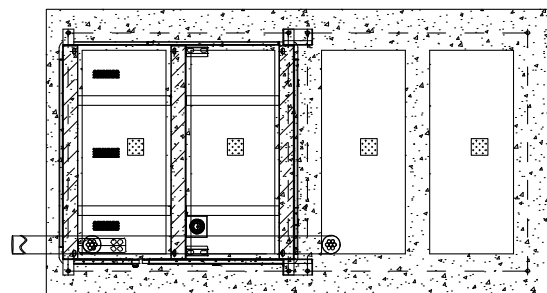
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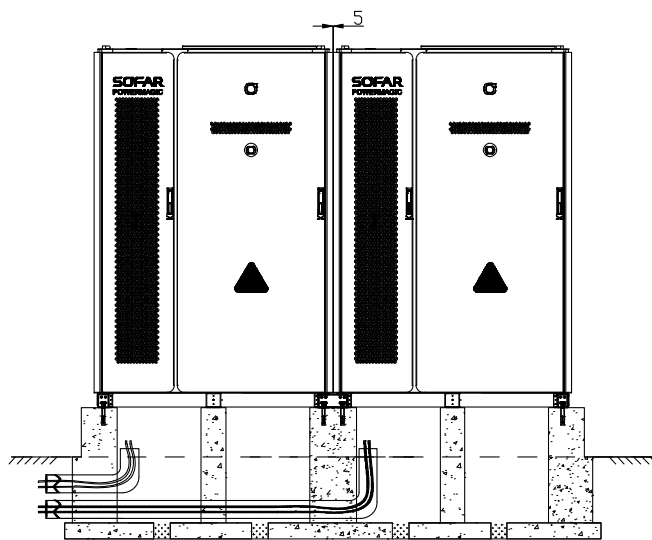


Product adaptation diagram



FRONT

TOP VIEW



A-A

Technical requirement:

- Local base map is only used for illustration, specific construction plan is made by the design institute!
- it should be explained that the total weight of the energy storage is about 6,000 kg, and the foundation bearing capacity needs to be greater than 12000KG!
- The equipment is installed on a concrete base, and it is recommended to reserve eight M16 expansion bolt holes on the installation surface; The depth is 100mm (M16*120 expansion bolt), the length of the exposed expansion bolt should ensure that the nut is tightened and the threads are exposed 6-8 teeth;
- The foundation is a C25 concrete structure, and before the foundation construction, a 100mm sub-layer construction should be carried out first;
- The installation surface needs to be flattened and treated to ensure that the installation surface is level, and the surface tolerance requirement is $\pm 1\text{mm}$;
- The ground above the foundation must be higher than the local record water level and at least 300mm above the level ground; If the self-permeating port inside the foundation cannot meet the drainage requirements, a separate drainage channel is required;
- It is recommended to reserve cable conduits (specific dimensions can refer to the selected diameter specifications of the demand side, retain sufficient excess, and facilitate wiring);
- All matters not mentioned in the figure shall be subject to the current norms of the country where they are located. Unit: mm.

				SOFAR Shenzhen SOFARSOLAR Co., Ltd.	
		Mapable Unit	A3	Ratio:	1:1
Design:		Date:		Weight:	[. 2]kg
Check:		Date:		Unit:	mm
Ratify:		Date:		versions:	A1
		Name: Foundation of two 400V Energy Storage		Part Number	
		First page		One page in total	

SF-FM-MD-005 A1

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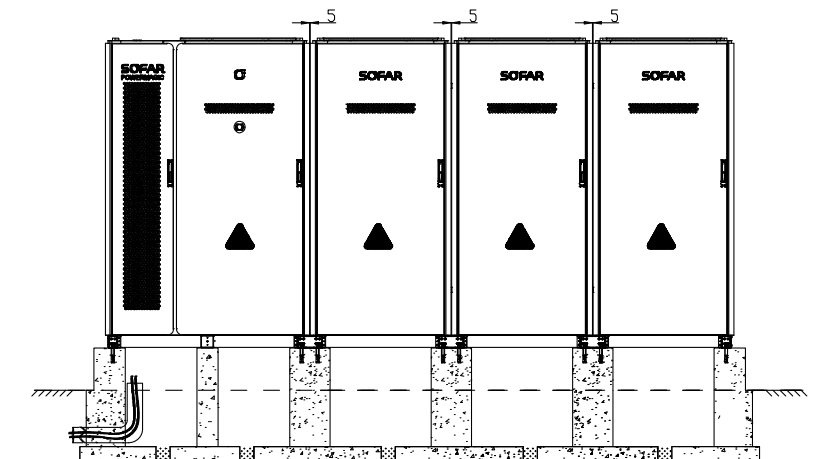
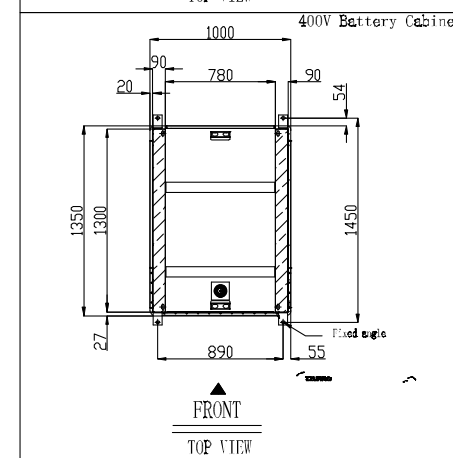
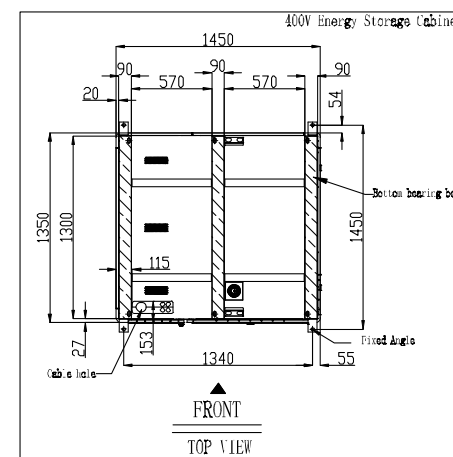
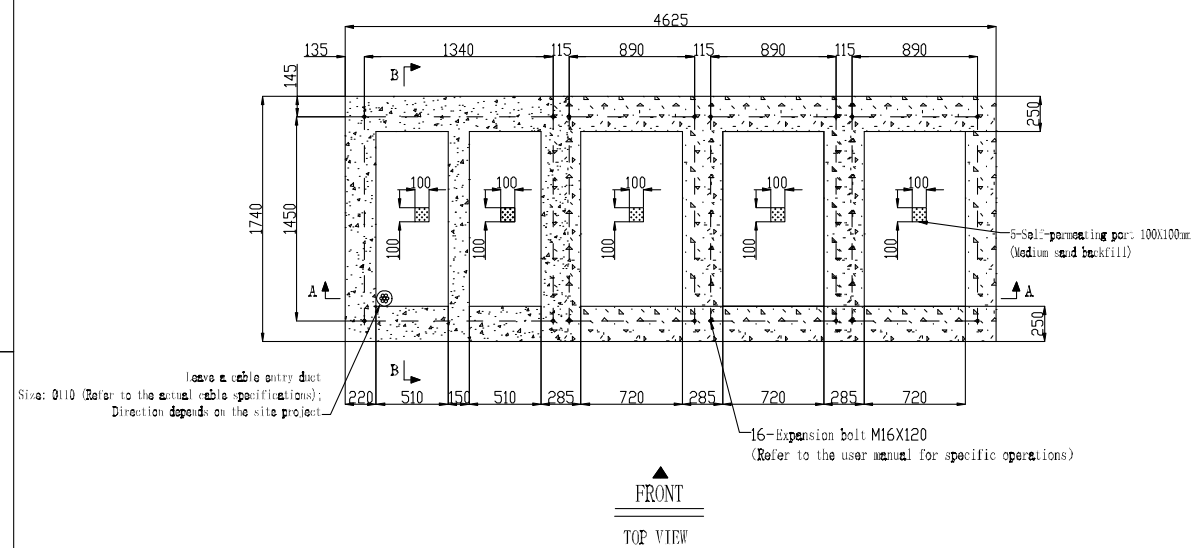
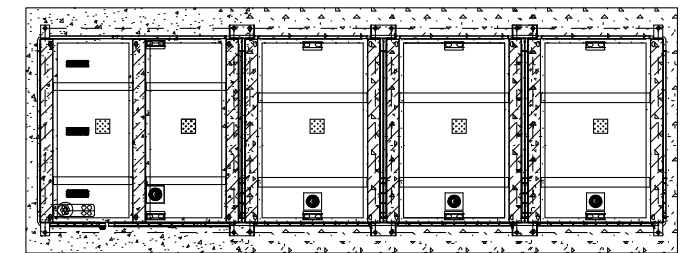
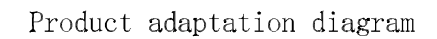
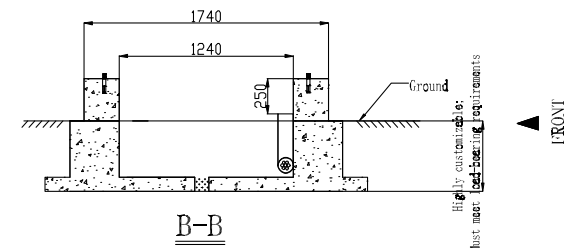
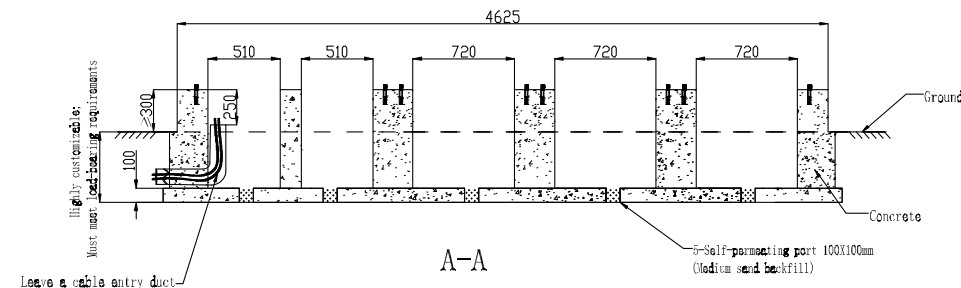
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Date	ECN	Revision description	
2024/6/28	NA	First revision	

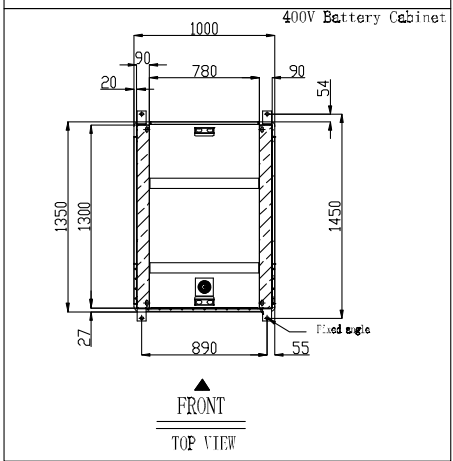
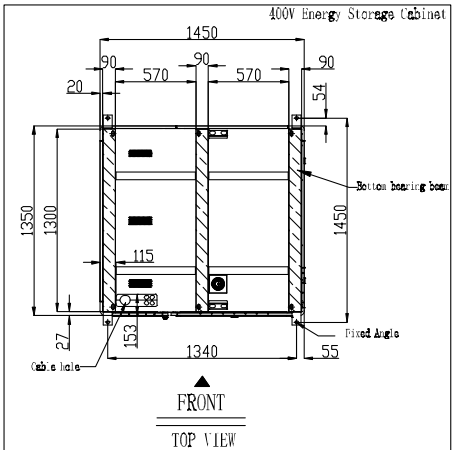
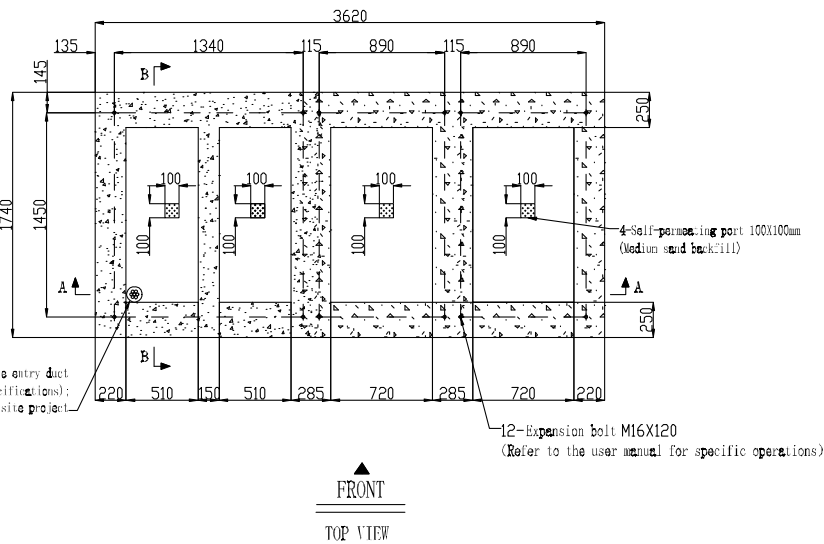
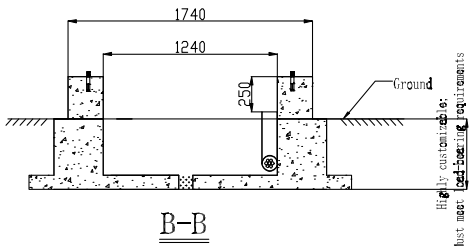
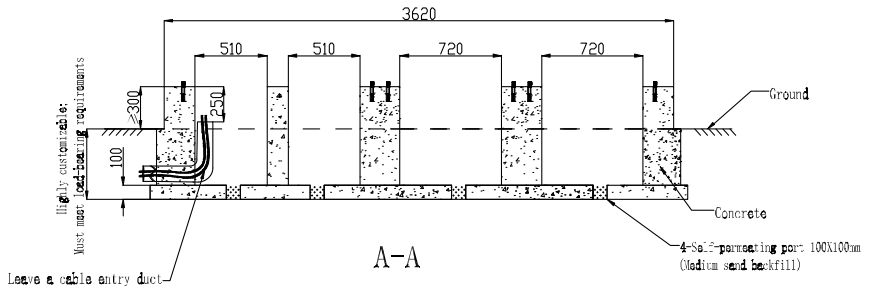


Technical requirement:

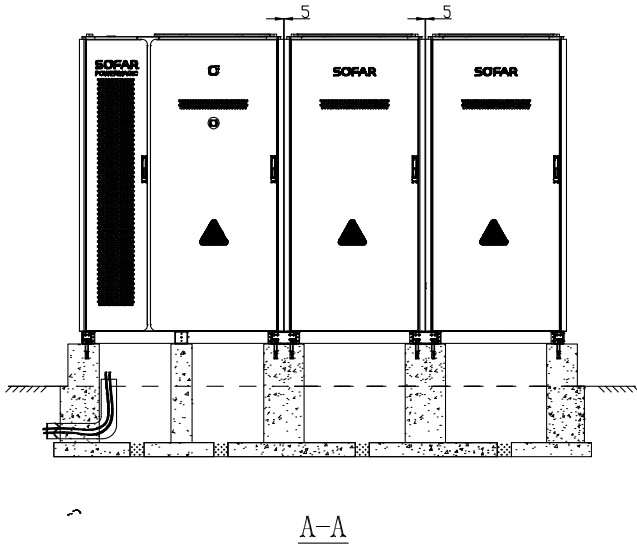
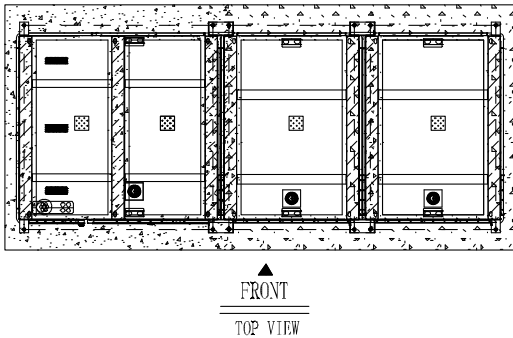
1. Local base map is only used for illustration, specific construction plan is made by the design institute!
2. it should be explained that the entire weight of the equipment is about 10500KG, and the foundation bearing capacity needs to be greater than 21000KG!
3. The equipment is installed on a concrete base, and it is recommended to reserve sixteen M16 expansion bolt holes on the installation surface;
The depth is 100mm (M16*120 expansion bolt), the length of the exposed expansion bolt should ensure that the nut is tightened and the threads are exposed 6-8 teeth;
4. The foundation is a C25 concrete structure, and before the foundation construction, a 100mm sub-layer construction should be carried out first;
5. The installation surface needs to be flattened and treated to ensure that the installation surface is level, and the surface tolerance requirement is $\pm 3\text{mm}$;
6. The ground above the foundation must be higher than the local record water level and at least 300mm above the level ground; If the self-permeating port inside the foundation cannot meet the drainage requirements, a separate drainage channel is required;
7. It is recommended to reserve cable conduits (specific dimensions can refer to the selected diameter specifications of the demand side, retain sufficient excess, and facilitate wiring);
8. All matters not mentioned in the figure shall be subject to the current norms of the country where they are located. Unit: mm.

				SOFAR Shenzhen SOFARSOLAR Co., Ltd.				
		Wegable Unit	A3	Ratio:	1:1	Name: Foundation of one 400V Energy Storage Cabinet and three 400V Battery Cabinet		
Design:		Date:		Weight:				
Check:		Date:		Unit:	mm	Part Number		
Ratify:		Date:		versions:		First page	One page in total	

Date	ECN	Revision description
2024/6/28	NA	First revision



Product adaptation diagram



- Technical requirement:
- Local base map is only used for illustration, specific construction plan is made by the design institute!
 - it should be explained that the entire weight of the equipment is about 8000KG, and the foundation bearing capacity needs to be greater than 18000KG!
 - The equipment is installed on a concrete base, and it is recommended to reserve twelve M16 expansion bolt holes on the installation surface; The depth is 100mm (M16*120 expansion bolt), the length of the exposed expansion bolt should ensure that the nut is tightened and the threads are exposed 6-8 teeth;
 - The foundation is a C25 concrete structure, and before the foundation construction, a 100mm sub-layer construction should be carried out first;
 - The installation surface needs to be flattened and treated to ensure that the installation surface is level, and the surface tolerance requirement is $\pm 2\text{mm}$;
 - The ground above the foundation must be higher than the local record water level and at least 300mm above the level ground; If the self-permeating port inside the foundation cannot meet the drainage requirements, a separate drainage channel is required;
 - It is recommended to reserve cable conduits (specific dimensions can refer to the selected diameter specifications of the demand side, retain sufficient excess, and facilitate wiring);
 - All matters not mentioned in the figure shall be subject to the current norms of the country where they are located. Unit: mm.

				SOFAR Shenzhen SOFARSOLAR Co., Ltd.	
Design:		Mapable Unit	A3	Ratio:	1:1
Check:		Date:		Weight:	
Ratify:		Date:		Unit:	mm
		Date:		versions:	
		Name: Foundation of one 400V Energy Storage Cabinet and two 400V Battery Cabinet		Part Number	
		First page		One page in total	