



Power

Escape215-R

QUICK INSTALLATION GUIDE

Escape215-R

100kW/215kWh Battery Energy Storage System

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The Escape215-R is an AC Coupled Battery Energy Storage System with a 100kW inverter and 215kWh battery.

- 100kW Inverter
- 215kWh Battery (LFP)
- Energy Management System
- Battery Management System
- Fire Suppression System



Escape215-R

100kW/215kWh Battery Energy Storage System Parameters

Power 

<i>System nominal capacity</i>	<i>215kWh</i>
<i>Rated power</i>	<i>100kW</i>
<i>Max. output power</i>	<i>110kW</i>
<i>Rated grid voltage</i>	<i>400Vac</i>
<i>Allowable voltage fluctuation range</i>	<i>-15% ~ 15%</i>
<i>Cable entry</i>	<i>3 phase 4 wire</i>
<i>Discharge Rate / Storage Duration</i>	<i>0.5C / 2 Hours</i>
<i>Battery Voltage Range</i>	<i>648V ~ 864V</i>
<i>Battery Cell</i>	<i>280Ah, Lithium iron phosphate battery cell</i>
<i>Number of cycles</i>	<i>≥ 6000 (25°C, 0.5C, 90%DOD,80%EOL)</i>
<i>Rated grid frequency</i>	<i>50Hz +/- 5%</i>
<i>Operating temperature range</i>	<i>-20°C ~ 45°C</i>
<i>Communications</i>	<i>CAN, RS485, TCP/IP</i>
<i>Heat dissipation</i>	<i>Liquid cooled</i>
<i>System protection level</i>	<i>IP54</i>
<i>Noise</i>	<i>≤75dB</i>
<i>Dimensions</i>	<i>1300mm L x 1362mm W x 2180mm D</i>
<i>Weight</i>	<i>2200kg</i>
<i>Warranty</i>	<i>5 + 5 Years</i>

Escape215-R

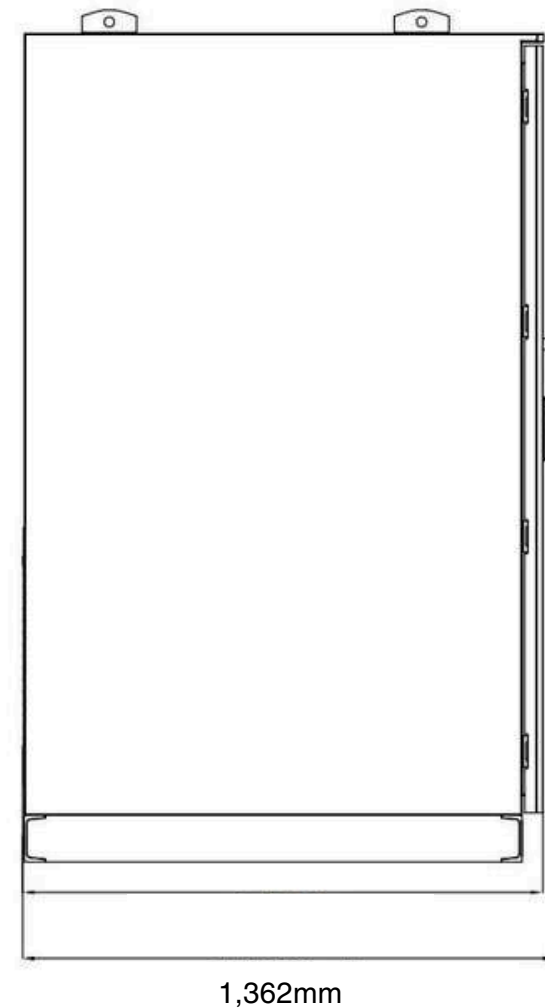
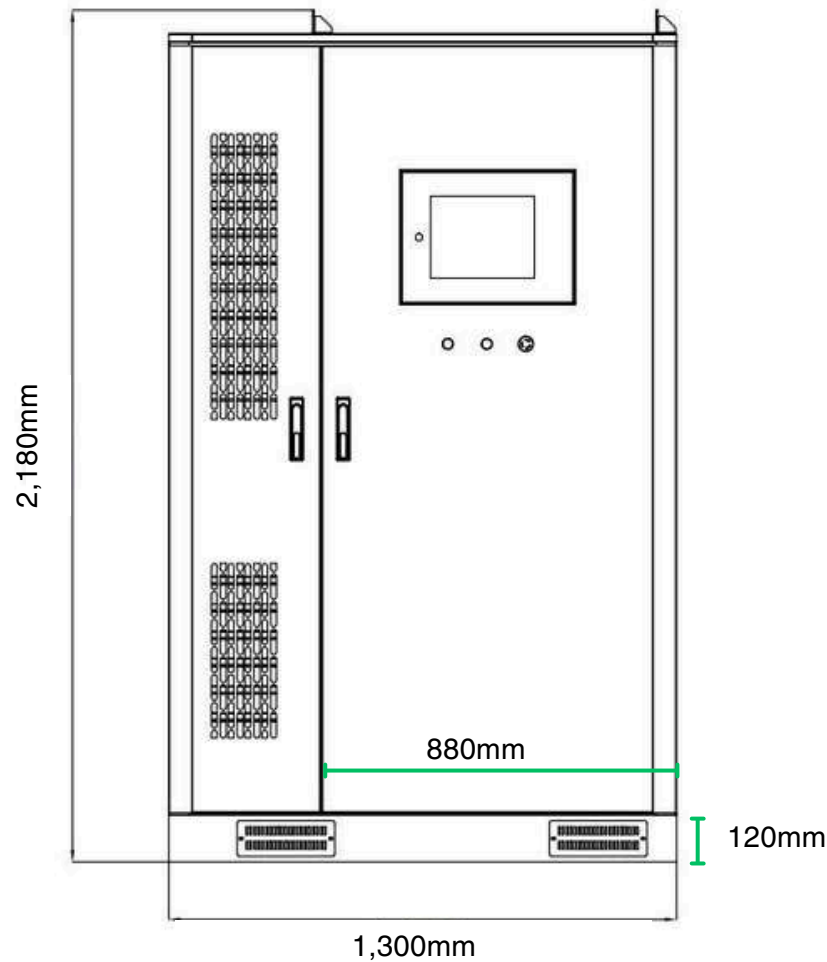
Installation Information

External Dimensions

Power 

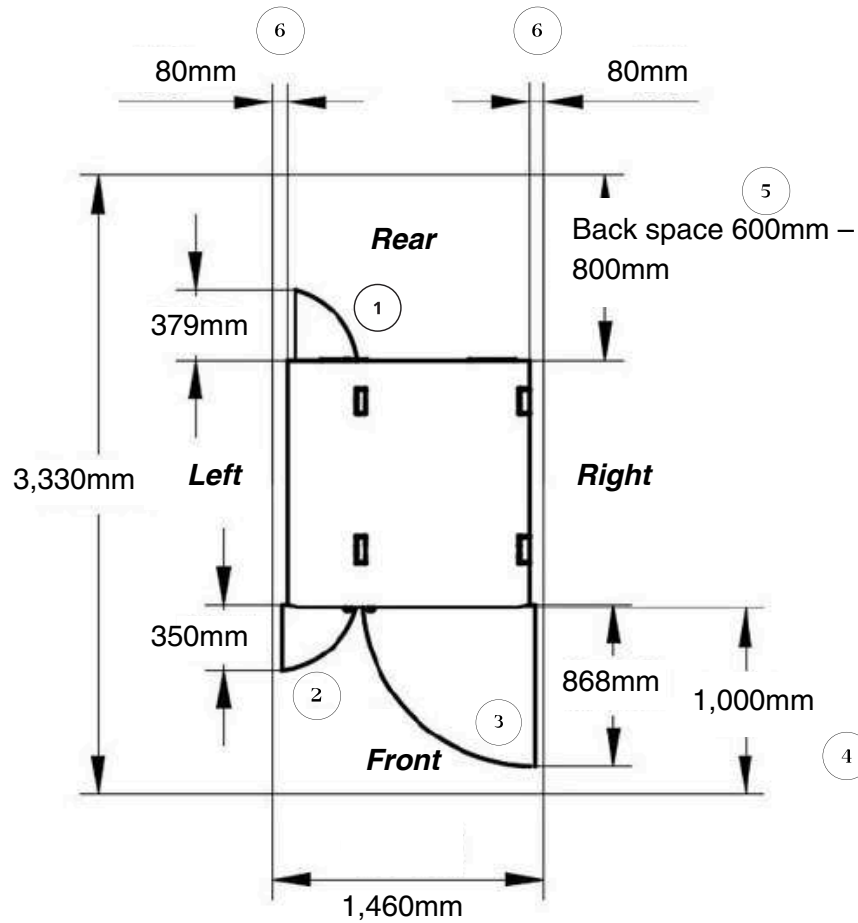
Dimensions: Length 1,300mm x Width 1,362mm x Height 2,180mm (including the lifting hooks)

Weight: 2,200kg



Door Dimensions

Power 

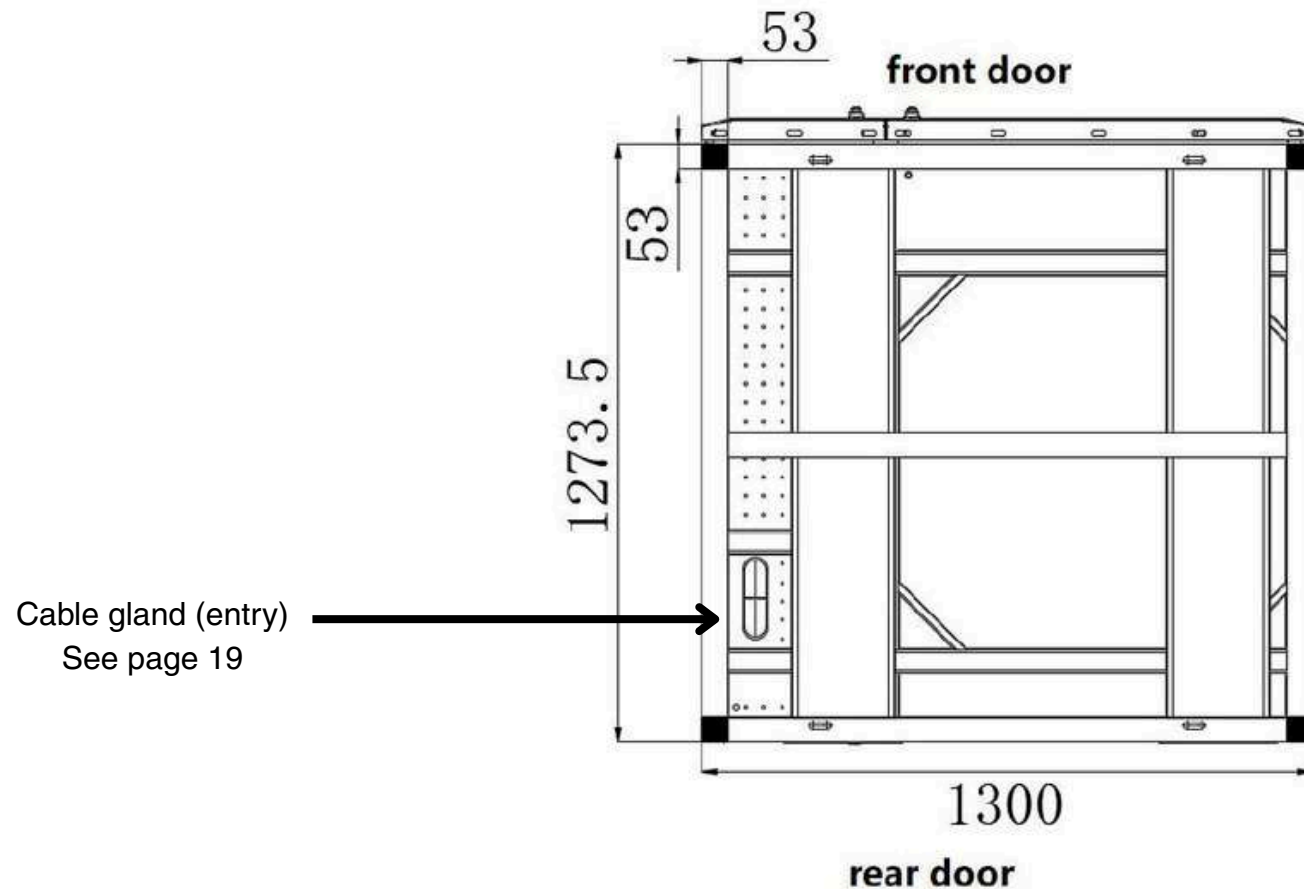


- 1) Small door at the rear (bottom) opening dimension 379mm
- 2) Left side of front door (electrical part) opening dimension 350mm
- 3) Right side of front door (battery part) opening dimension 868mm
- 4) 1 metre of space needs to be reserved from the front of the cabinet
- 5) 600-800mm of space needs to be reserved from the rear of the cabinet
- 6) 80mm of space needs to be reserved on the left and right of the cabinet

Base Dimensions (Leg Position)

Power 

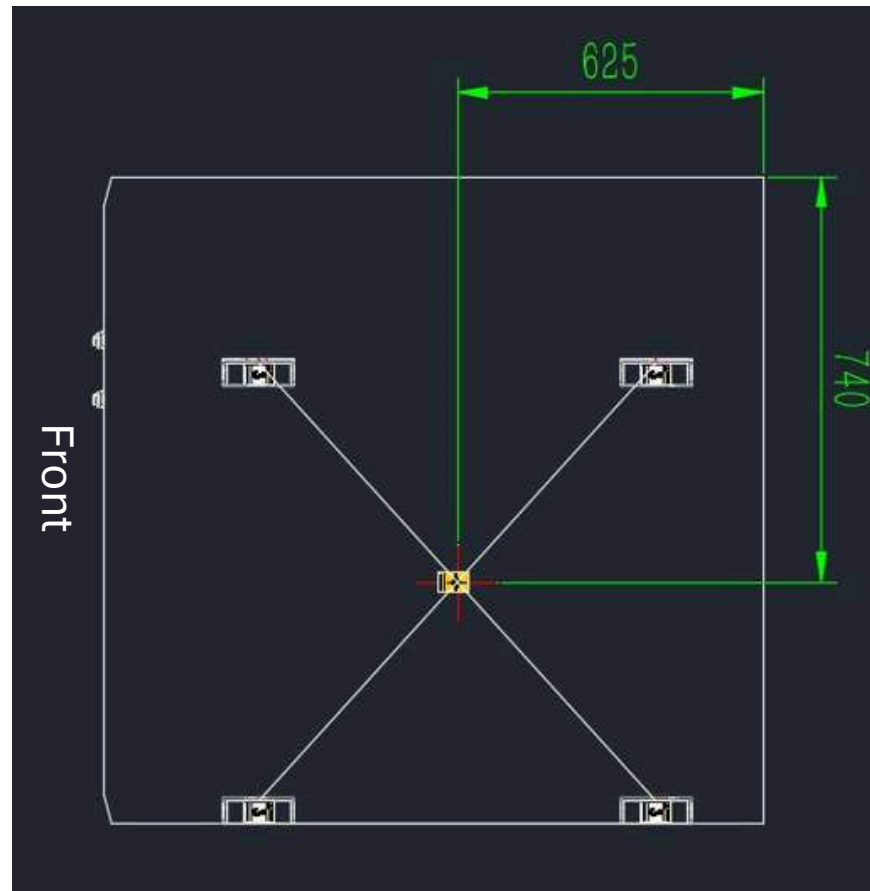
View from underneath



Top Dimensions

Product Movement: Top Anchor Position by Crane

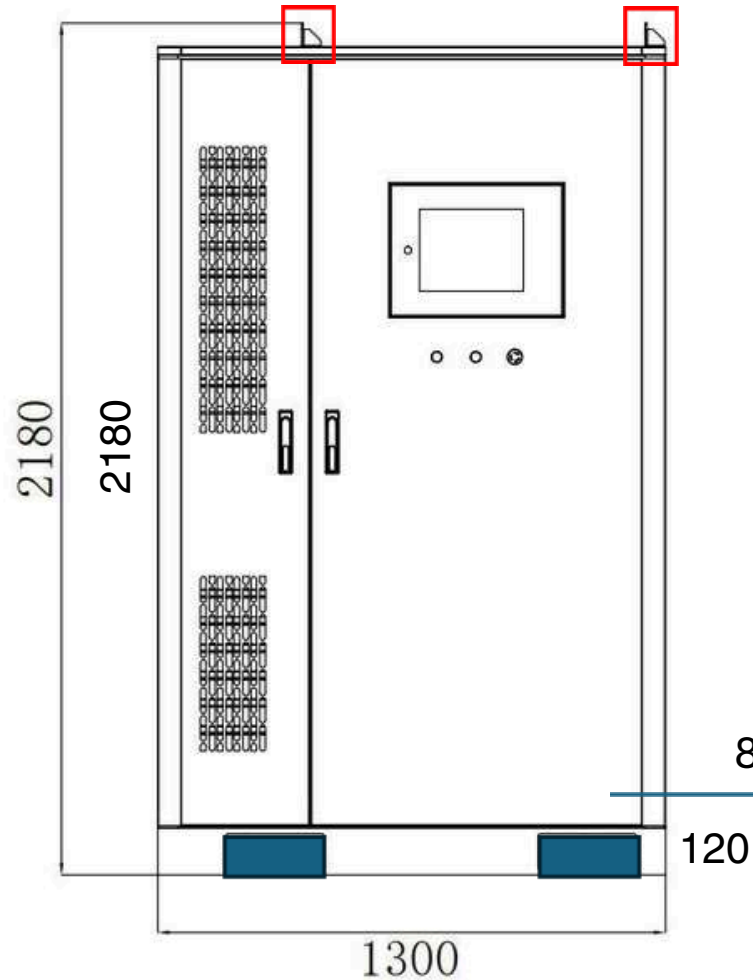
Power 



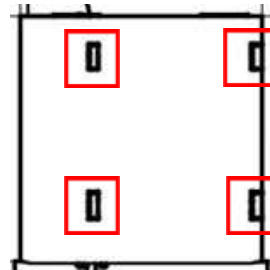
Product Movement

Product handling by forklift or crane

Power 



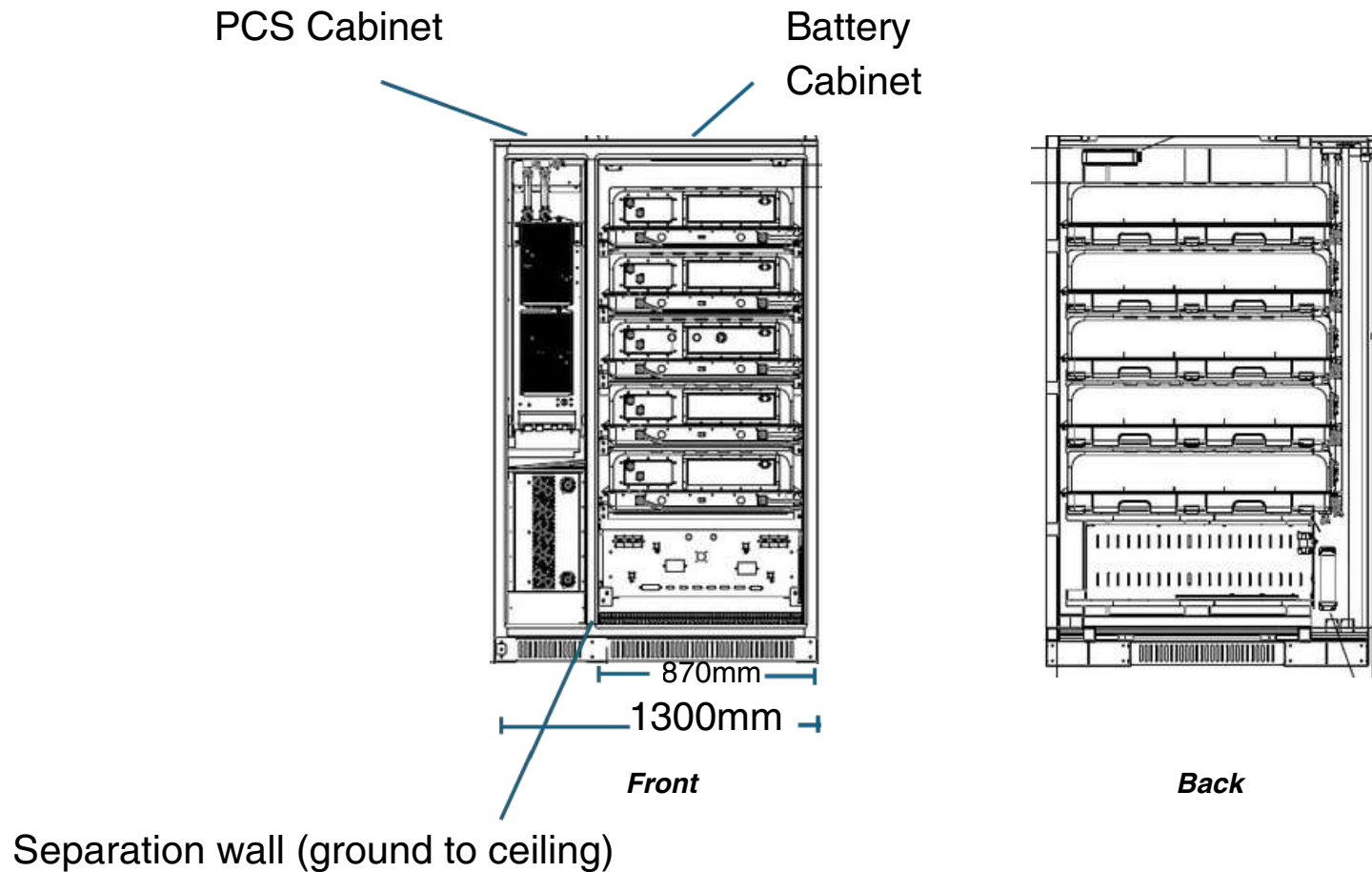
Blue = holes reserved for forklift movement



Reserved holes at top for lifting by a crane. Note: need to use spreader bars or similar.

Internal Dimension

Power 

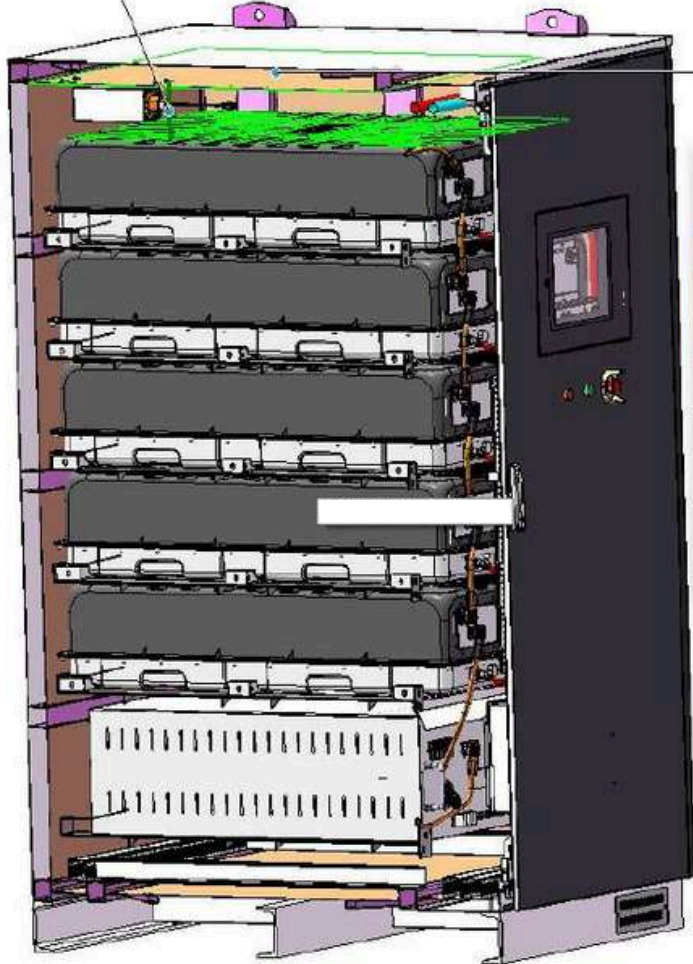


PCS	W*H*D 480mm × 260mm × 659mm
HVAC	W*D*H 275mm × 1,150mm × 1,040mm
Battery Pack	L*D*H 814mm × 1,100mm × 250mm

Internal Dimensions

Power 

136.5mm



Top distance: 136.5mm

155.5mm



Distance between battery pack and front door: 155.5mm

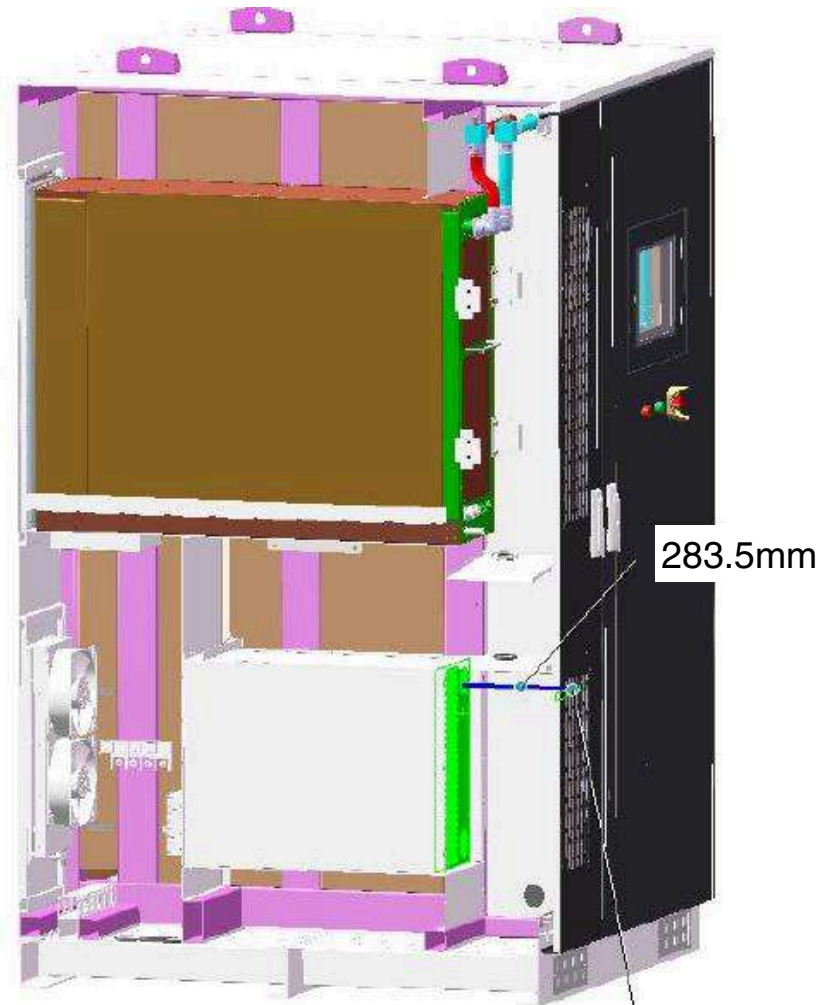
Sides

Internal Dimensions

Power 



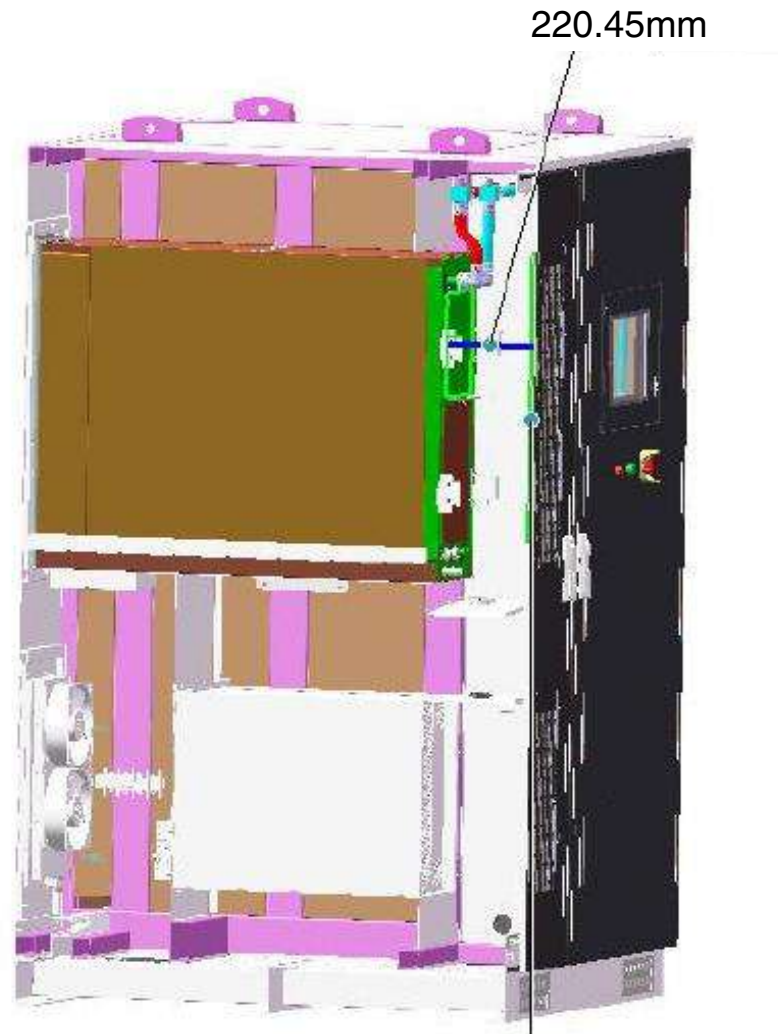
Distance between liquid cooling pipeline and front door: 135.7mm



Distance between PCS and front door: 283.5mm

Internal Dimensions

Power 

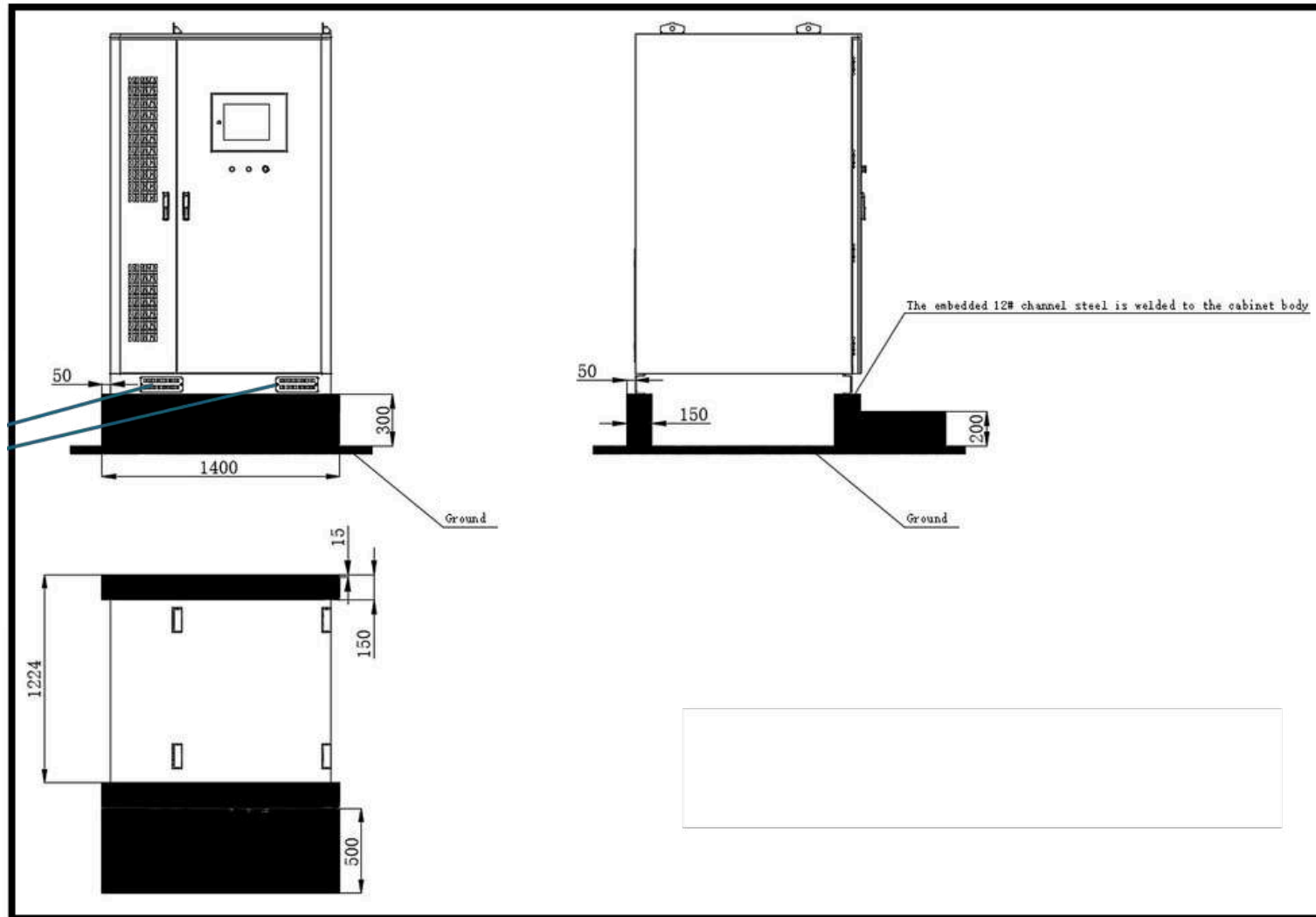


Distance between liquid cooling host and front door: 220.45mm

Footing

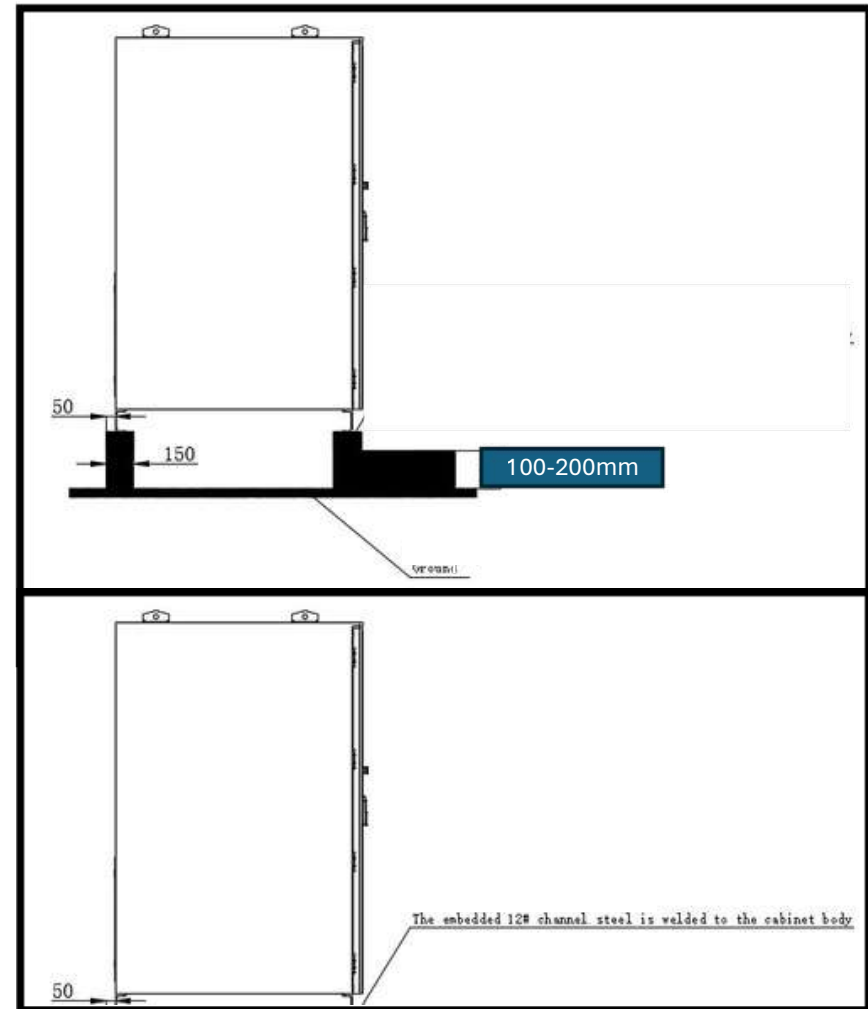
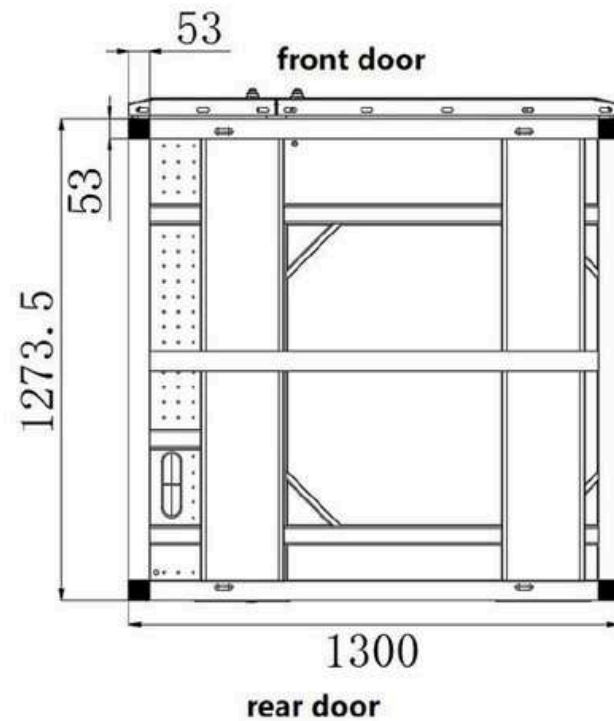
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Suggested concrete footing (25mPa)



Slab and Leg Position

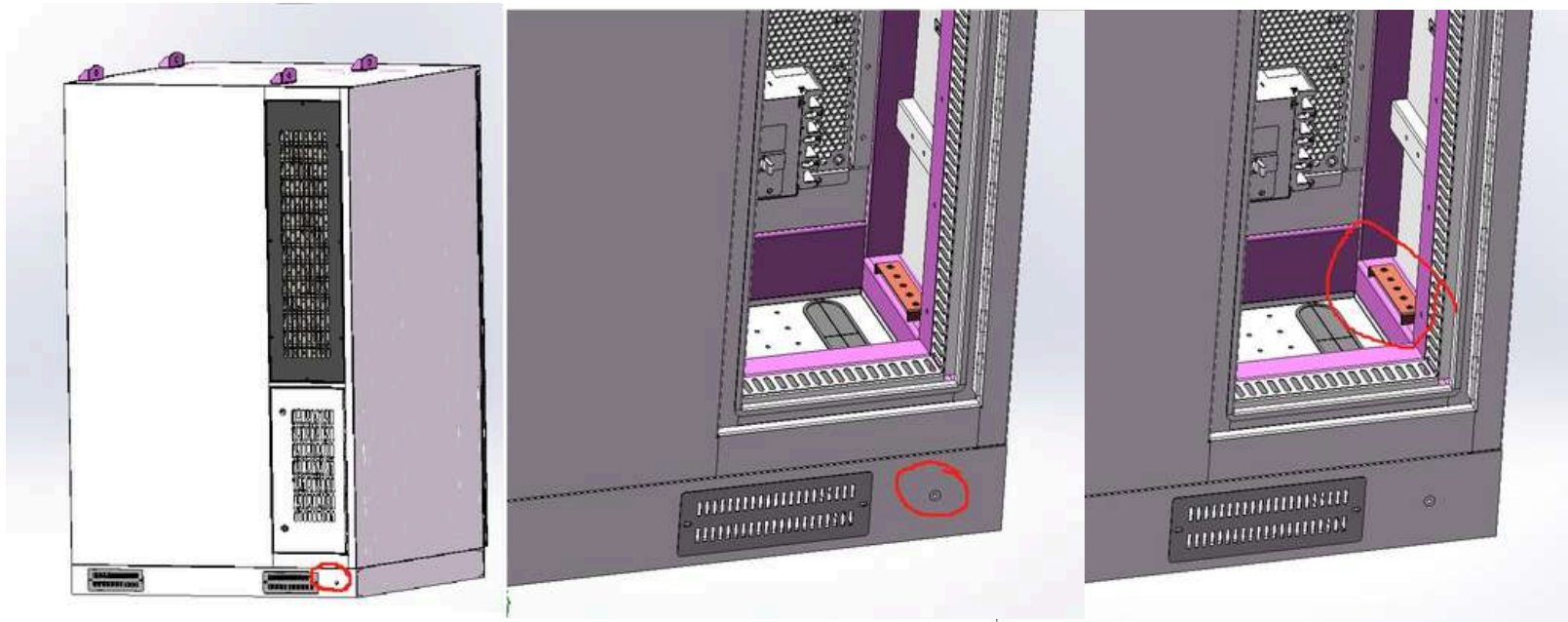
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Earthing

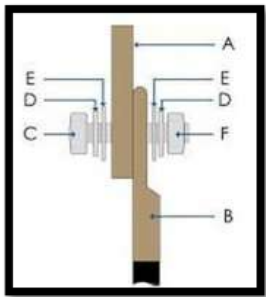
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Option 1: Grounding through Earth Node



Earthing

Option 2: Grounding through Earth Bar

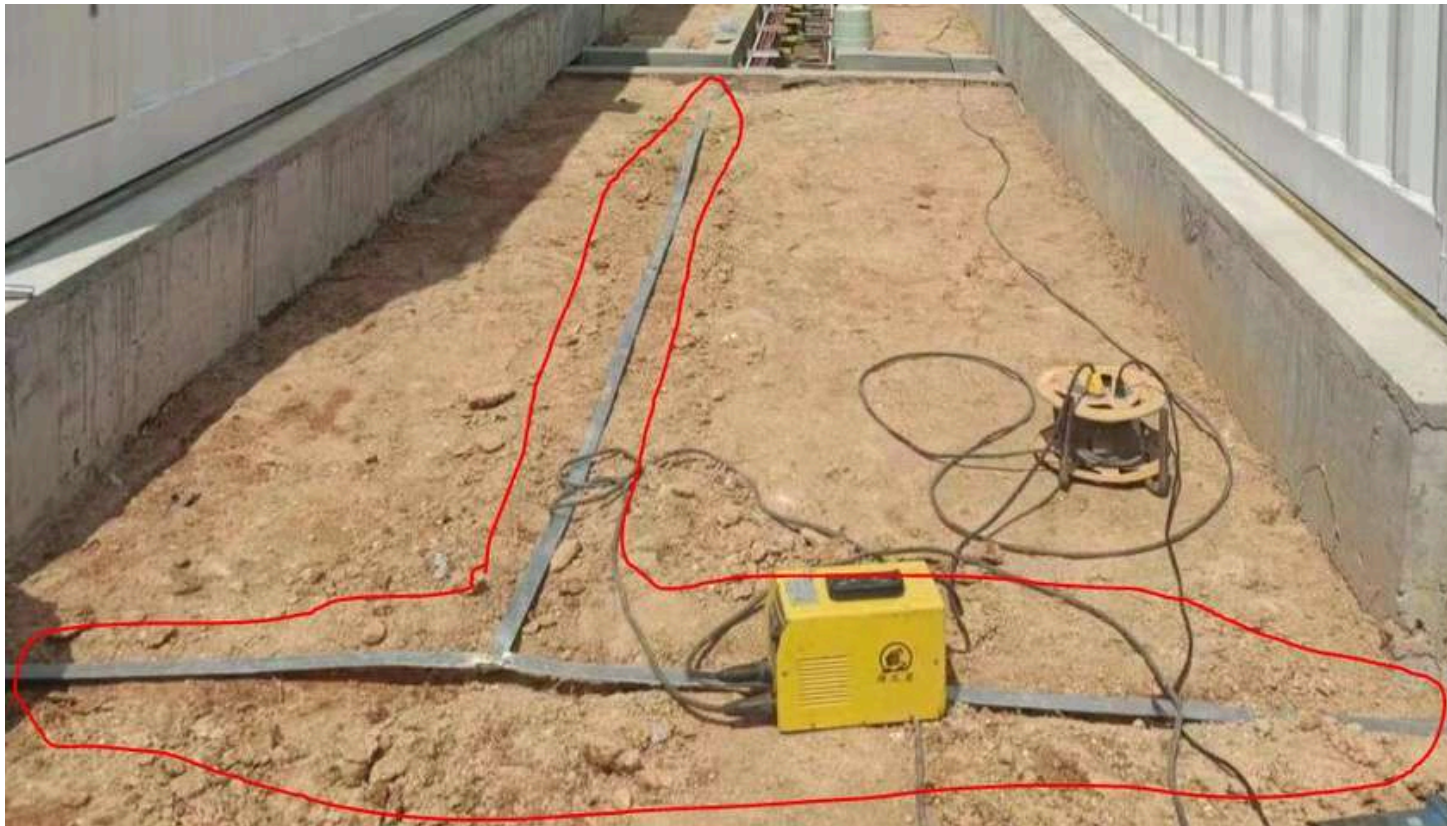


	Component	S/No.	Component
	Copper Row	D	Spring Pad
	Copper Terminal Blocks	E	Flat Pad
	Bolt	F	Nut

Earthing

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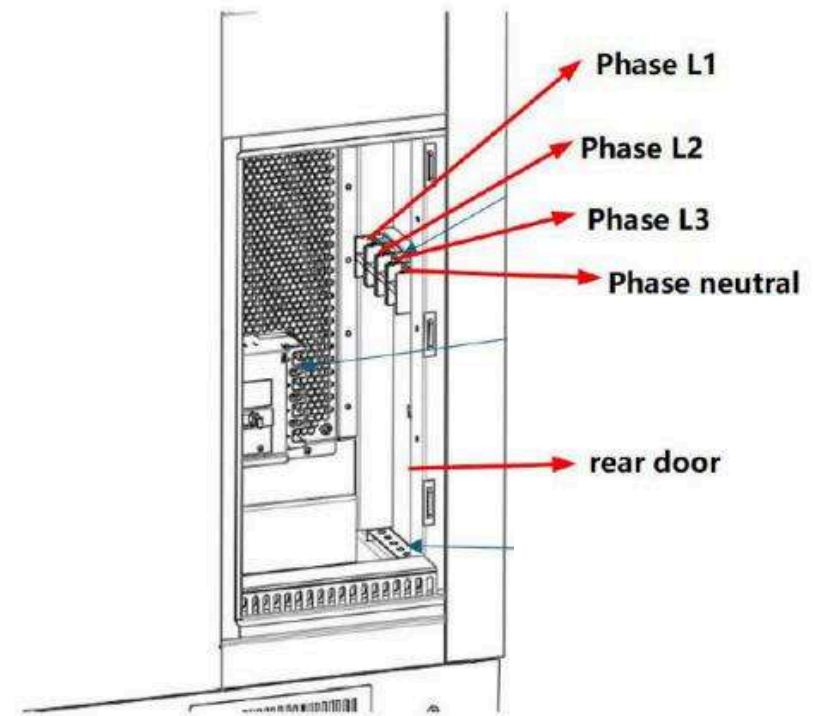
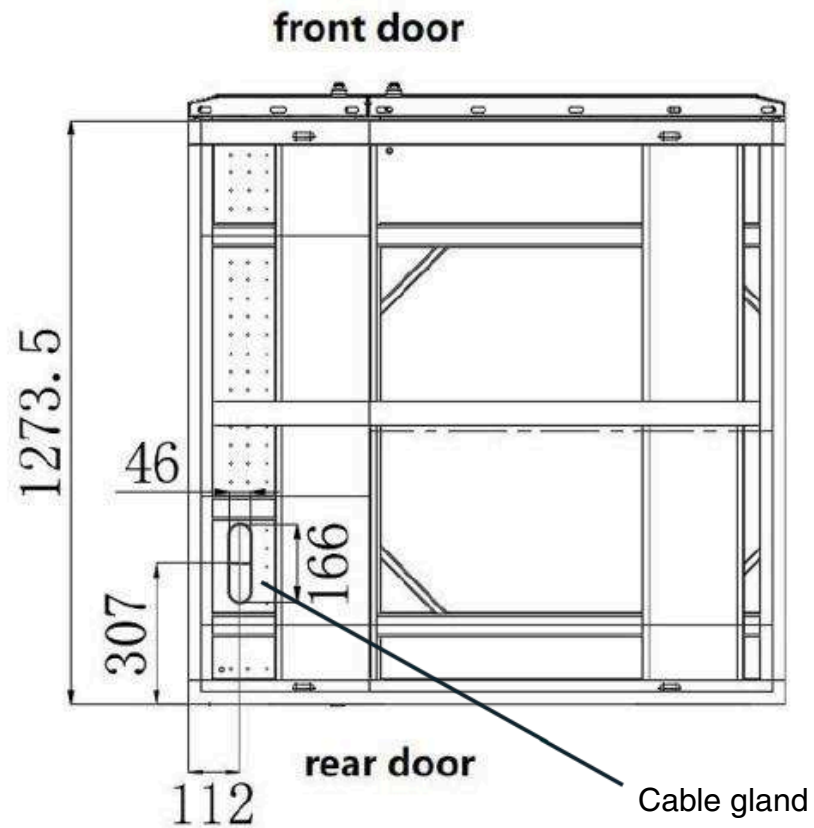
Option 2: Grounding through Earth Bar



Copper net underground if large scale earthing of battery farm

Cable Connection Position

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Cable

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Check calculations from relevant Australian standards

- Phase L1: 50mm²
- Phase L2: 50mm²
- Phase L3: 50mm²
- N - 25mm²
- PE - 25mm²
- Cat 6 (shield) x 2 - 1 x LAN, 1 x RS485 (Both connect to the EMS (front))



Helping power possibilities.
One system at a time.

Renox

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Power 

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