SHENGLIN 2500A NEW 40ft MINING CONTANINER

40FT FULLY TURNKEY MINING SOLUTION FOR US CANADA

Shanghai Shenglin IME Technology Co., Ltd

Advantages

Has obtained overall CSA certification, all electrical switch cable lines have obtained UL certification

Built-in 2500A intelligent frame circuit breaker, save the cost of transformer side low voltage cabinet

Switchgear with full copper row connection effectively prevents heat accumulation

Realize 4 levels of lsig four-stage protection, 100% of rated distribution panel circuit breaker electronic tripping

The best air-cooled heat dissipation without any shading on the inlet side and the distance design is in accordance with Bernoulli's principle, which increases the heat dissipation efficiency by 30%. The distribution cabinet is completely isolated from the hot air area, there will not be any risk of high temperature in the switchgear

Catlog

1. **Appearance and Structure**
2. Cooling System
3. Power System

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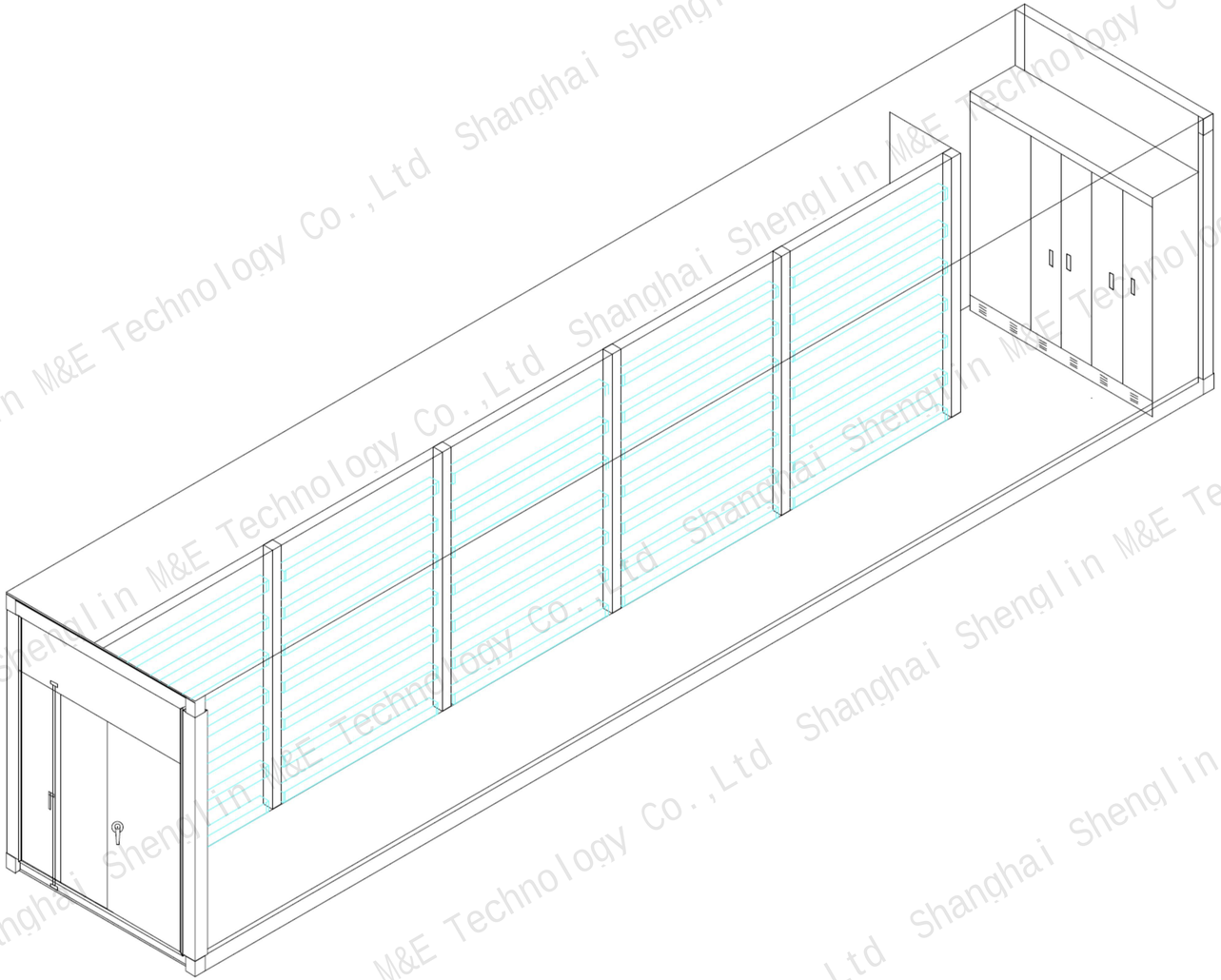
1. container structure



5 rows of machine racks, can house 322 machines, distribution cabinet is placed horizontally with the end of the container, does not occupy the machine space, and with the machine hot air area completely blocked, there will be no hot air affecting the switch cabinet situation, and the machine into the air side without any obstruction to ensure absolute air intake uniformity, the top and bottom of the machine will not have overheating problems.

Cold air area width 1170mm Hot air area width 500mm
Fan external installation
The cold air area, shelf and hot air area are designed according to Bernoulli's principle to achieve a very good heat dissipation effect.

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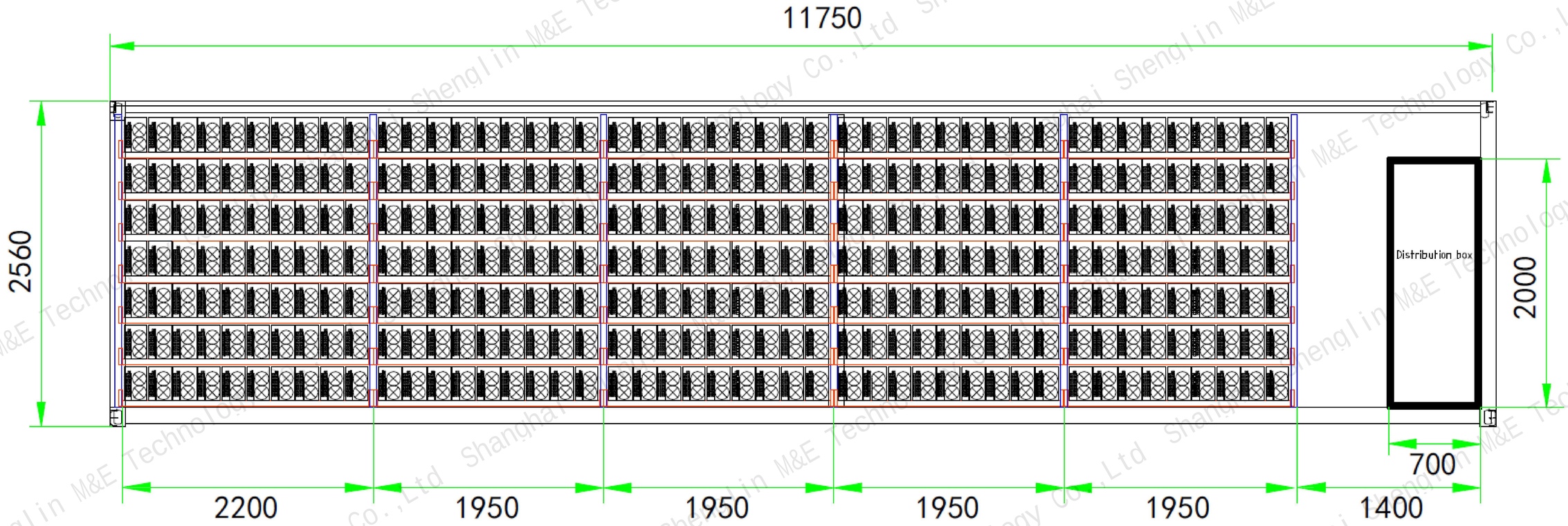
1. container structure



It can house **322** S19XP/S19/M30 series
5 columns and 7 shelves layout, each shelf placed 9 units.
（(10 units in the first column)）

There are 35 PDU, 420 C19 sockets and 35 C13 sockets
Each socket can carry 20A and can be individually controlled.

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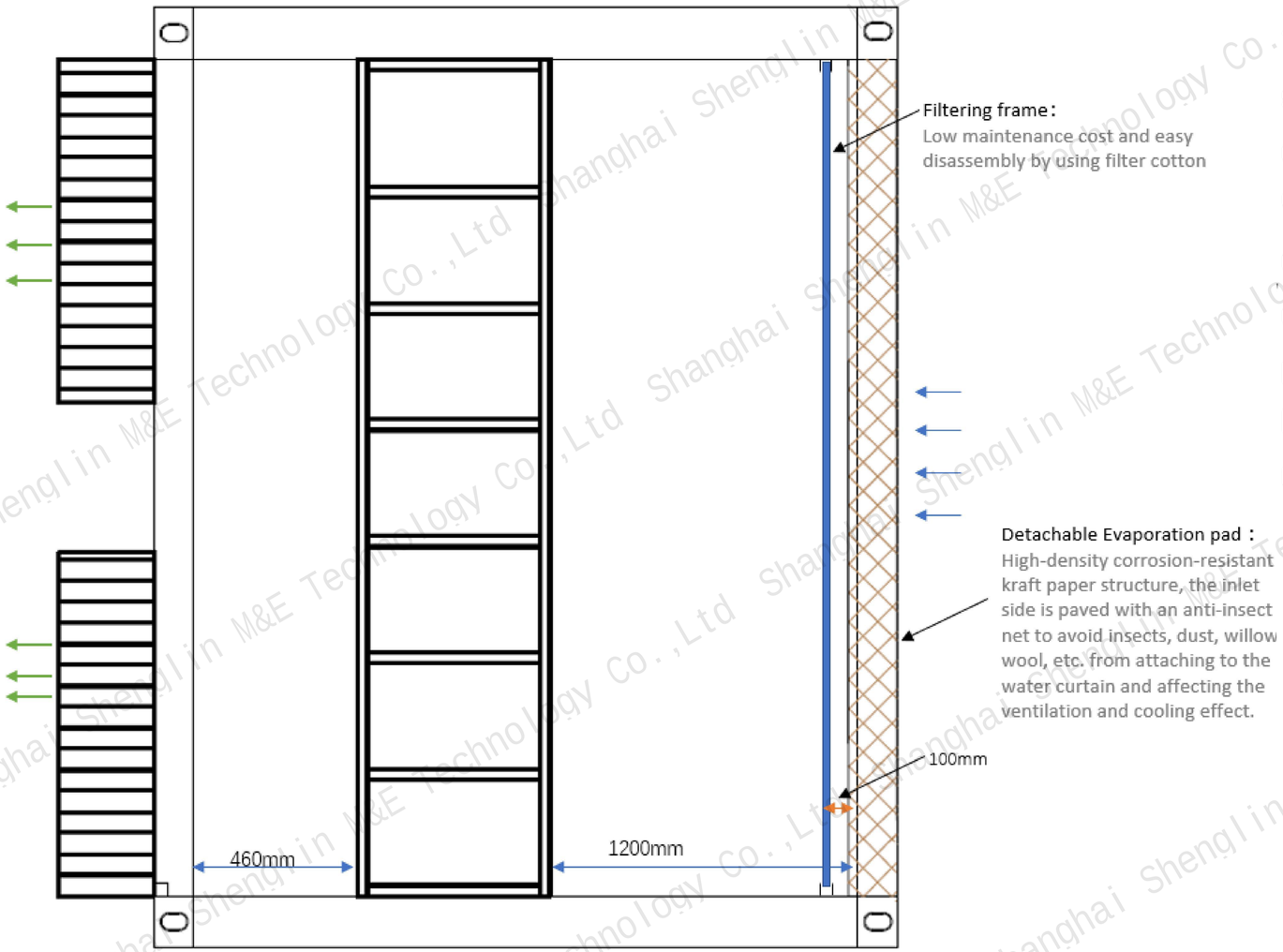
2. cooling system



The left side of the container cooling system is a negative pressure fan, the right side is installed with water curtain in summer, and adjustable blinds can be installed optionally in winter.

When the outside temperature is too high, the external hot air is evaporated and cooled by the water curtain and then pumped into the box to achieve the effect of cooling the machine. The filtration system (optional) can effectively block the particles and dust from entering and damaging the machine, and also reduce the air humidity to avoid damaging the circuit board. The actual measured temperature of the container can be reduced by 59°F.

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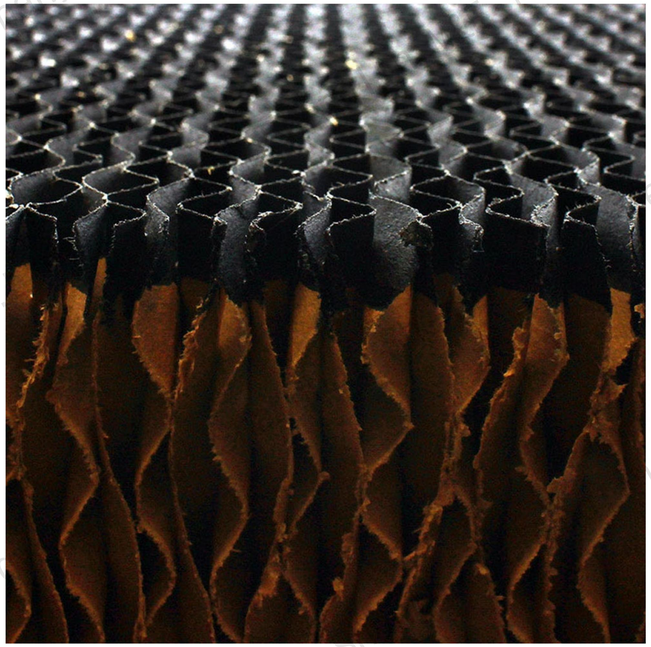
2. cooling system



Negative Pressure Fan:

Stable Total Airflow: 301344CFM

Super Powerful Motor: Pure 60HZ UL Certified

Huge Fan Blades: Fan blades are stamped from Krupp stainless steel.

COOLING Water Curtain: Covers 90% of the intake side 110 grams per square metre of virgin kraft paper with high quality adhesives and hardeners to increase resistance. In addition, the intake side of the cooling pad is immersed in a specialised black plastic resin to help reduce scaling and mineral build up

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Catlog

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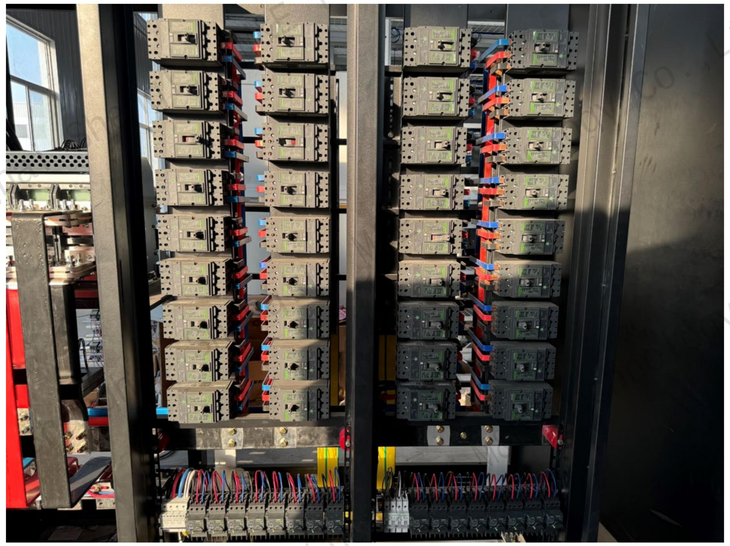
3. Power system

The configuration of the distribution cabinet has passed CSA safety tests and uses a large number of copper connections to avoid overheating of the distribution cabinet, and the built-in 2500A intelligent frame circuit breaker realizes lsig four-stage protection.The PDU control uses 80A moulded case circuit breakers with higher and safer sectional ratings.



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3. Power system

Also very easy to connect high voltage cables

We put the 2500A intelligent frame circuit breaker of the switchgear at the back end, which fully guarantees the safety of the personnel when carrying out the operation of power on and off for large power flow. It is very convenient for the personnel to operate in the mine box only for PDU power on and off.

Also very easy to connect high voltage cables

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3. power system

Overall 35 PDUs, CSA certified, total 420 C19 sockets, 35 C13 sockets

C13 socket for powering network devices with 5A liquid magnetic switch

12-position C19 socket for mining machine power supply, each with 20A liquid magnetic switch, each can be controlled individually

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3. power system

All the main cables from PDU to distribution cabinet are UL2586/4*5AWG+1*7AWG, and all the cables from fan to distribution cabinet are UL2586/4*14AWG+1*16AWG to ensure the redundancy of electricity safety, and they are manufactured by the first-tier domestic manufacturers to meet the real UL standard.

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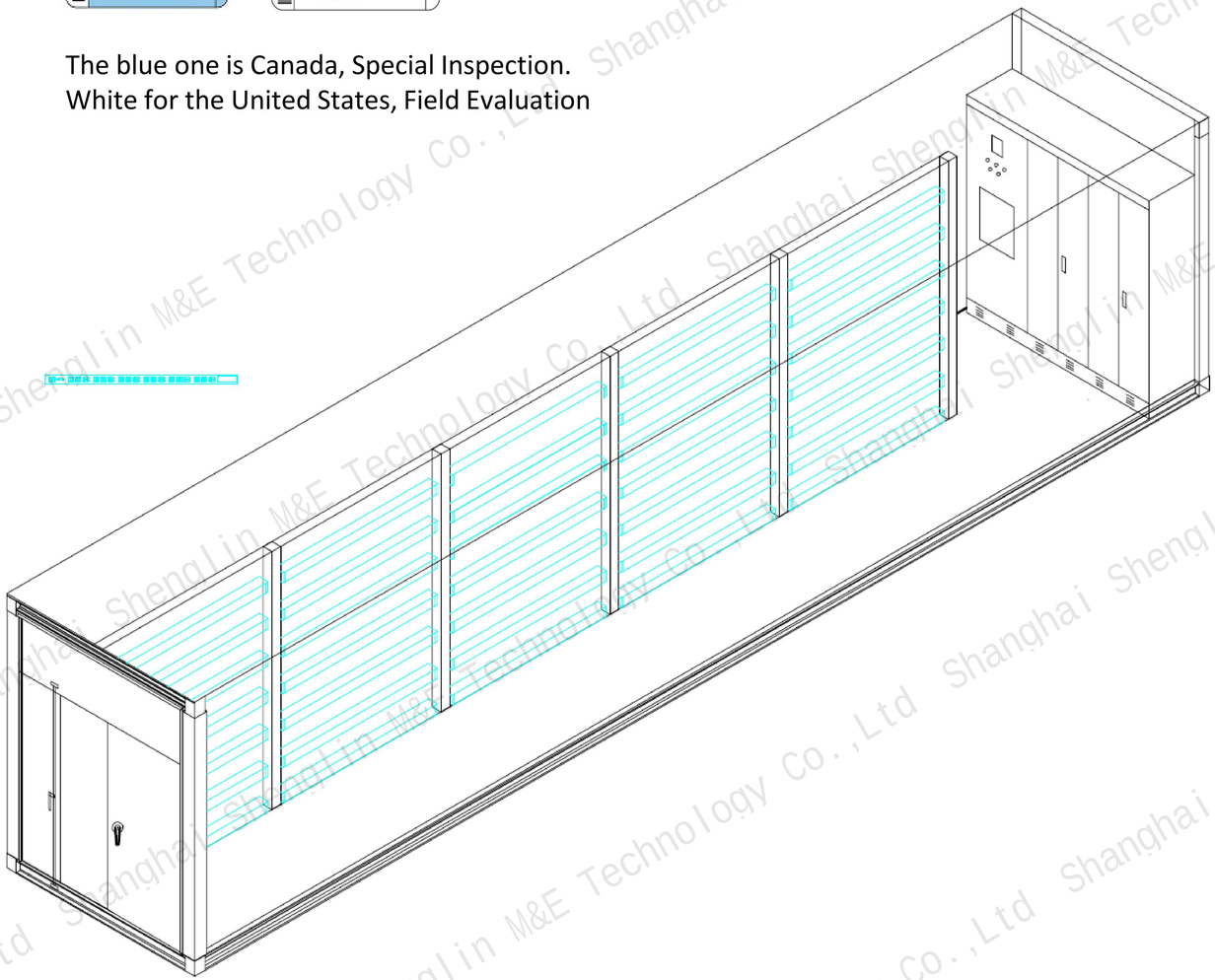
The blue one is Canada, Special Inspection.
White for the United States, Field Evaluation



Overall Overview

- The whole container including the internal electrical components are all CSA certified
- All electrical components have UL certification.
- Built-in 2500A intelligent frame circuit breaker, to achieve 4 levels of Isig four sections of protection
- All-in-one mine box plug-and-play, only four steps to power up available.
- It can accommodate 322 S19XP/S19/M30 series Each socket is equipped with a 20A liquid magnetic switch

16 sets of high-speed negative pressure fans with water curtain, fearless of any high temperature

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Parameter Summary

L*W*H	11.75m * 2.18m * 2.56m		
Can house	315 units of S19/S17		
rack	A total of 7 rows and 5 columns, with each cell vertically housing 9 machines (20 cm wide, 31 cm high) from row 1 to row 7		
power systeam	Connected with large amounts of copper busbars to reduce heat buildup		
Manin Breaker	1 × 2500A frame circuit breaker	Noark A32Q3DH2500	CSA/UL
PDU Breaker	35 × 80A molded case circuit breakers	Noark M1N80T3	CSA/UL
	16 × motor protection devices	Noark EX9S32A2.5A	CSA/UL
Fan Breaker	1 × main fan switch	Noark M1N60T3	CSA/UL
Lighting/Auxillary Circuit Breakers	2*10A	Noark B1NQ2C10	CSA/UL
External Power Inputs	3 phase 380V-415V, 60Hz (3PH+N+GND)		
PDU	35 PDUs, one per shelf layer - 420 x C19 outlets with a 20A dedicated hydromagnetic breaker per outlet - 35 x C13 outlets with a 5A dedicated hydromagnetic breaker per outlet		
Wattmeter	Digital Meter + CT		
Busbar	80mm x 10mm; 50mm x 10mm ; 15mm x 3mm		
Cables	UL2586/4*5AWG+1*7AWG	UL2586/4*14AWG+1*16AWG	
Cooling system Fan	16 high-speed belt-driven fans - Dimension: 1.1m*38cm*1.1m; - Motor: 0.75Kw; - Rapid connect terminals for easy installation;		
water curtain	6 panels, 1.41m wide 2.24 high 15cm thick kraft paper galvanised sheet water curtains		
Network system			
Network switch	20 Units 100M switch with C14 plug power cord		
Network cable	322 x Super Category 5 network cables have been installed and pulled to each miner spot		
Other accessories			
Water Curtain Fixtures	6set		
Fan Fixtures	6set		

Our Mission

Provide secure, reliable and stable blockchain and web 3.0 infrastructure.

10,000+ We has sold a total of 10,000 mining containers to serve mining farms around the world, and there has not been a single case of failure in operation.

337,269 We are the source manufacturer of mining containers, with its own factory area of 337,269 sq.ft. and a production capacity of twenty-five mining containers per day

20 Exports to USA、Canada、Russia、Paraguay、Angola、Kyrgyzstan、Kazakhstan、Sweden、Tveit、Brazil、Germany、Laos

10+ Cumulative construction of ten mining farm, China, Russia, USA, Canada, Iran, Kazakhstan, etc.

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