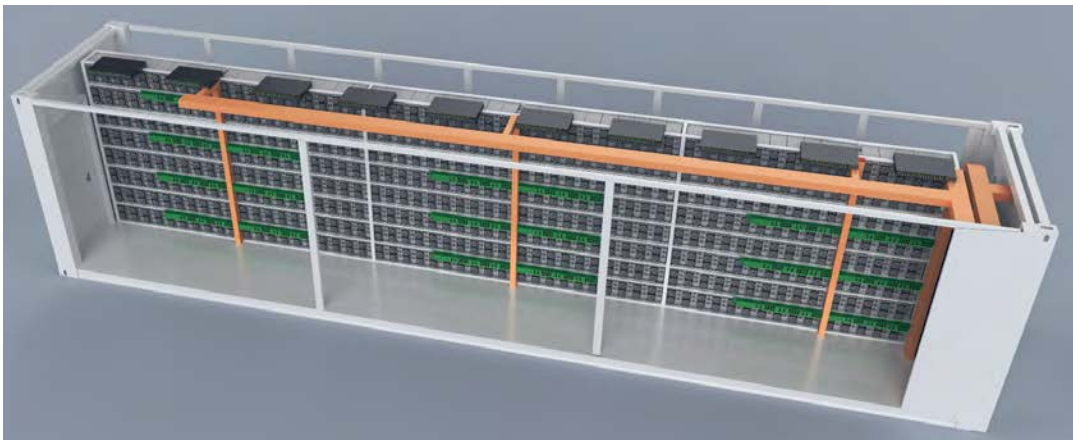# TEK EDGE

PDM Orebox-1500

40 Feet HQ Mobile Data Center

1.5MW/432 ASIC Miners
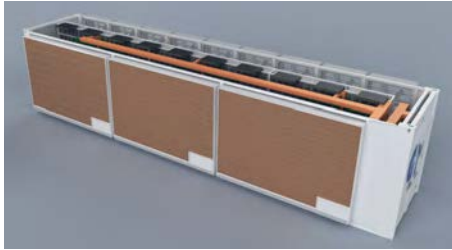
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Technical specifications: PDM OreBox-1500

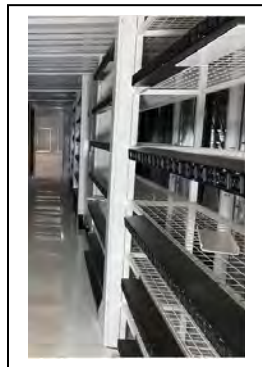| Dimensions	Specification
Enclosure Length x Width x Height	12192mmx 2438mm x 2896mm
Number of installed ASIC mining rigs	432 ASIC miners with up to 4.0kW power consumption per miner
Enclosure rating	NEMA 3 / IP54
Power	
Power Input kW	Upper Limit: 1,500 kW
Input Voltage	415VAC 3ph
Inside Access	3 phase power connection to inside access 4 Main Breakers
Connection type:	3 Hot wires, 1 Neutral, 1 Ground, each phase Volts: AC 240V
Distribution Panel and Breakers	Electric cabinet on the side of each mine box: 4 x800A Molded Case Main Breakers (Noark, ABB or similar),8 x 400A Molded Case Breakers (Noark, ABB or similar), 22 x 20 ports PDUs. (UL Rated)
Power Distribution & Cabling	All wiring, equipment racks; Power Distribution Units; Cables (Miner cables AWG 12), Distribution Breakers (Noark, ABB or similar), Main Panel Breakers (Noark, ABB or similar), lights, electrical outlets. C19 power cord from PDU to miner included, Y-pigtail can be separately ordered for connecting twin mining rig plug inputs to PDU
Cooling	
Cooling technology	Air Economizer with Evaporative cooling, 3 Panels per Container
Industrial grade Exhaust Fans (550W per fan)	18 Fans with automated louvers
Airflow (Cubic-Feet-per-Minute)	353,147 CFM (600,000 Cubic Meter/Hour)
Air filtering system, Air flow sensor, Temperature sensor	Included
Additional technical details	
Facilities management and monitoring system	Included - Controller based with MODBUS, TCP-IP
Security	Key locks standard to dual entry/egress security doors
Regulatory compliance	UL 489, Compliant to IEC 60950 and international wiring regulations
External Environmental Operation limits	
Operating temperatures	0°F to 40°F
Operating humidity range	0 to 90% RH (below Condensation point)
Operating altitude	0 to 5,000 ft

Water Panel Side

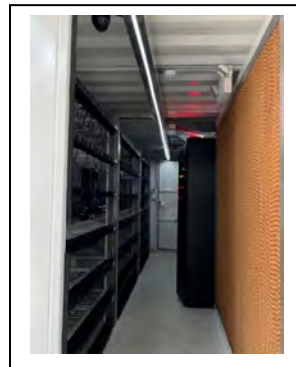Direct Drive Fans Side

Power Cabinet

Inside *View*

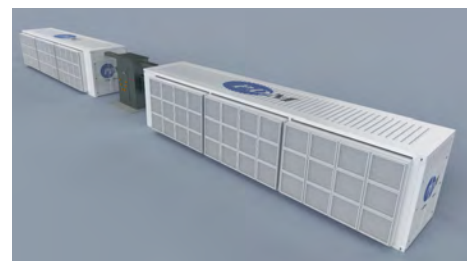PDU on the Racks

Air Filters Installation

Container Inside View

Power Cabinet Box

Heat Release air flow

One Transformer connect to Two Containers

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OreBox-1500 Smart System

1、Smart temperature and humidity control system：

Smart temperature controller

Temperature Sensor

The OreBox-1500 uses the Emerson PACS PLC control system to provide remote performance management and control. The QuickPanel HMI has a six-inch display for access inside the container and to store data and provide network access. Four temperature sensors, one placed externally to measure outdoor ambient, and three placed internally behind the three water curtains monitor the temperature which is stored in the control panel. Three pressure sensors track internal air pressure so that a drop of 10% or more signals the need to clean the filters. The twenty fan variable speed drives are also controlled through the PLC, as are the three pumps pushing water into the water curtains. As temperatures climb above 87 degrees F, the PLC turns on the pumps to circulate water to start cooling the air brought through the filters, and modulate the fan speed to help exhaust the hot air. As the outdoor ambient climbs down below 89 degrees F, the pumps are cycled down. Technicians can monitor the performance of each OreBox-1500 remotely through Emerson's MOVICON SCADA system, allowing the technician to perform preventative maintenance without affecting downtime.

2、Smart access control system:

Smart access control

The intelligent access control system integrating password, magnetic card, fingerprint, face, mobile phone, etc., can cope with various occasions, is safe and reliable, effectively identifies the identity of the staff, avoids the entry of non-staff, and can remotely monitor the entry and exit of personnel.

3、Remote Video Monitoring System:

video cam

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Video cameras are installed on the front and back of the mine box, 360° without dead angle, each is connected to the Ethernet, and the internal situation of the mine box can be remotely viewed in real time through the network; the monitoring data will be saved in the data center, which is easy to find, and it is necessary to follow up in case of important events. Provide important evidence when viewing.

4、Fire Alarm System:

Smoke detector	Sound and light alarm	Alarm

When there is a fire or smoke in the mine box, the smoke will receive a signal when it passes through the smoke detector to determine that a fire has occurred, and the sound and light alarm will act as an alarm to notify the relevant personnel. When the relevant personnel press the alarm to alarm, and are equipped with fire hydrants, artificial fire can be carried out.

5、Water leakage monitoring system:

Water leakage sensor rope	Water immersion sensor

When the water pipe leaks, the resistance value changes when it passes through the induction rope, so as to output a signal to prompt the relevant personnel to perform maintenance. When the water leakage exceeds a certain height, the water immersion sensor will act, and the alarm will issue an emergency warning to alert the relevant personnel to carry out emergency maintenance.

6、Data Mobility Center Monitoring System:

Features: All systems transmit data to the server through the bridge, the client can read the server data anytime and anywhere to monitor all the conditions inside the mine box, one-stop management of temperature control system, intelligent access control system, video monitoring system, fire protection system, water leakage The monitoring system supports a series of mobile devices such as mobile phones and PCs. It is easy to use and convenient to use.

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