DIGITAL SHOVEL · MINING POD

M300 Minipod
300 kW

Air-cooled modular mining pod · 88 S19-class slots · made in Canada



MAKER
Digital Shovel, Canada

COOLING
Air · closed hot aisle

POWER
380–415 V 3-phase

FOOTPRINT
2.2 × 2.4 m pod

Product Manual

Setup, operation, maintenance and OneMiners hosting guide

Version 1.0
First edition, November 2026
Information checked 7 Nov 2026

Contains manufacturer information © Digital Shovel, summarised for customer reference.

About this manual

This manual covers the **Digital Shovel M300 Minipod**, an air-cooled outdoor mining pod rated at **300 kW**. Pods can run alone or in sets (3 pods = 900 kW up to 10 pods = 3 MW).

Digital Shovel's installation manual wasn't available for this edition. Specifications come from Digital Shovel's M300 product page and a reseller listing; installation guidance is OneMiners' general container practice.

Sections that reproduce or summarise manufacturer or reseller data carry a **Source** tag. Values that sources disagree on, or that no source confirms, are marked **Needs verification** and listed in section 1.4. Planning figures marked *calculated* are OneMiners arithmetic from the published values, not manufacturer ratings. Chapters 9 and 10 cover OneMiners services and support and are marked **OneMiners**.

Before you start

POWER	SITE	AIR	MINERS
380–415 V · 3-phase	**Level pad**	**4 × 15,000 CFM**	**≤ 88 S19-class**
5-wire: 3 lines, neutral, earth.	Pod 750 kg; awning adds depth.	Clear intake and exhaust.	And ≤ 300 kW in total.

How notices are used

DANGER
Risk of electric shock, arc flash, fire, crushing or falling loads. Do not continue until the condition is met.

CAUTION
Risk of damage to the container or miners, lost uptime, or a failed inspection. Read before acting.

NOTE
Useful background, limits of a specification, or where to check further.

ONEMINERS
Applies to containers bought, deployed or hosted through OneMiners.

Copyright and disclaimer

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A mining container is electrical infrastructure. Its installation must be designed, inspected and connected by licensed electrical engineers and contractors under local codes, utility rules and permits. Nothing in this manual replaces the manufacturer's installation documents or a site engineer's design. Specifications may change without notice. Profitability and hosting information is guidance only and is not financial advice.

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CHAPTER 01

Product Overview

The M300 Minipod is a compact, outdoor-capable mining pod from Digital Shovel. It uses shelf-mounted miners with a closed hot aisle, four large exhaust fans and two smart PDUs, and scales by adding pods.



Figure 1-1 M300 Minipod. Image: OneMiners product photo.

1.1 Key figures

300 kW	**88** S19-class	**60,000** CFM
Per pod	Miner slots	Total fan airflow (4 × 15,000)

1.2 Specifications

ITEM	VALUE
POD	
Manufacturer / model	**Digital Shovel · M300 Minipod**
Type	**Outdoor modular mining pod, air-cooled**
Size (L×W×H)	**2,235 × 2,438 × 2,565 mm; 4,154 mm long with intake awning**
Weight	**750 kg (reseller listing)**
Shelves	**8 shelves, each 85 × 11.7 in**
CAPACITY	
Power	**300 kW per pod**
Miners	**88 Bitmain S19 or 40 GPU servers (4U)**
Sets	**3 pods (900 kW) to 10 pods (3 MW)**

ITEM	VALUE
ELECTRICAL	
Input	**415Y/240 V: 380–415 V, 3-phase, 5-wire**
Line to neutral	**220–240 V**
Main breaker	**350 A, 3-phase, UL 489, to overhead busway**
Smart PDUs	**2 per pod · 96 C19 outlets · 20 A breaker each**
PDU features	**Per-port monitoring and switching**
COOLING AND SECURITY	
Fans	**4 × 15,000 CFM, multi-stage**
Intake	**Awning intake, about 38% more airflow than louvres**
Filters	**Pleated MERV 5–15, 24 × 24 × 4 in (or 2 in)**

ITEM	VALUE
Security	**Door lock (smart lock option); internal and external IR cameras**

SOURCE Digital Shovel, M300 Minipod page; Cryptohall24, Digital Shovel M300 4-unit set listing; OneMiners product page (checked 8 Nov 2026).

1.3 What's in the package

ITEM	STATUS
Pod with racking and back-sheets	Included (Digital Shovel)
2 smart PDUs, 4 ventilation fans, awning intake	Included (Digital Shovel)
Switchgear	Included with multi-pod sets (reseller)
Hydro manifolds and dry-cooler	Not documented by Digital Shovel · **Needs verification**
Miners, transformer, utility connection	Not included

Status reflects what the manufacturer or reseller documents. The OneMiners product page currently lists the same generic "What's included" items on every container (see 1.4).

1.4 Values that need verification

These values conflict between sources or aren't confirmed by the manufacturer. Resolve them in writing with OneMiners sales before you design power, cooling or foundations around them.

ITEM	WHAT THE SOURCES SAY	USED IN THIS MANUAL
Cooling	Digital Shovel: air only · OneMiners: "Air or Hydro", hydro manifolds and dry-cooler included	Air (manufacturer)
Miner capacity	Digital Shovel: 88 S19 or 40 GPUs · OneMiners: about 90 WhatsMiner, 70 new-gen Bitmain, 140 legacy ASICs or 40 GPU rigs	88 slots; check power per 6.1
Main breaker vs. 300 kW	A 350 A three-phase breaker at 415 V carries about 252 kVA (calculated), less than the 300 kW rating	**Needs verification**: confirm with Digital Shovel
Fans	Digital Shovel page states both 4 × 15,000 CFM and "3x 15,000 CFM"	4 × 15,000 CFM
PDU outlets	Digital Shovel page states 96 C19 outlets and also "42 outlets on 208 Volt PDU"	96 C19
Door lock and certification	OneMiners: electronic lock, 16-gauge steel, UL-inspected, CSC · Digital Shovel: mechanical lock (smart upgrade), UL 489 main breaker	Ask for the UL inspection report

02 CHAPTER Site Planning

The M300 is designed to stand outdoors. It needs a level, drained pad, a three-phase supply and clear space for its intake awning and exhaust.

2.1 Choosing the site

- Outdoor-capable: install alone or in groups of 2, 3, 4 or more pods (Digital Shovel).
- Keep the intake awning facing clean air and the exhaust side clear, so hot air isn't drawn back in. Don't place two pods so one exhausts into the other's intake.
- Allow access for a forklift or truck crane, and service space on the door side.
- Check noise limits at the site boundary: four large fans run continuously.

2.2 Foundation, access and lifting

Footprint	**2,235 × 2,438 mm pod; 4,154 mm long including the awning**
Weight	**750 kg empty (reseller listing) plus miners: about 15 kg × 88 S19-class ≈ 1.3 t more (calculated)**
Pad	**Level, drained concrete pad or engineered gravel base, designed by a site engineer**
Anchoring	**Anchor against wind as the site engineer specifies**

DANGER · LIFTING
Lift only with equipment and rigging rated for the shipping weight, using the container's corner castings or the manufacturer's lifting points. Keep people clear of suspended loads. Never lift a container with miners installed unless the manufacturer allows it.

2.3 Climate and environment

Ambient	**Needs verification: not published by Digital Shovel. Plan for your miners' intake limits (typically 0–40 °C).**
Air quality	**Filters MERV 5–15; dusty sites need the higher MERV grades and more frequent changes**
Cold climates	**A Digital Shovel M300 set sold in the US included hot-air recirculation upgrades; ask OneMiners if your site needs them**

PLANNING CHECKLIST
Before ordering, confirm: land rights and permits, utility interconnection and transformer, road access for the delivery truck and crane, internet connection, water supply and drainage (if the cooling uses water), noise limits at the site boundary, and insurance requirements.

SOURCE Digital Shovel M300 page; Cryptohall24 listing; Bitcointalk listing of an M300 8-string set (recirculation upgrades). Pad and access guidance: OneMiners.

03 CHAPTER Electrical Supply

Each pod takes a three-phase, five-wire supply into a 350 A main breaker feeding an overhead busway and two smart PDUs.

3.1 Supply requirements

Supply	**380–415 V AC, 3-phase, 5-wire (L1, L2, L3, N, PE); 415Y/240 V**
Main protection	**350 A 3-phase main breaker, UL 489 listed**
Load	**Up to 300 kW per pod**
Transformer	**Sized by the utility / site engineer; switchgear included with multi-pod sets**

DANGER · ELECTRICAL

- The incoming supply, main protection, earthing and bonding must be designed and connected by a licensed electrical contractor and inspected before energising.
- Isolate, lock out and tag out the supply before opening any distribution panel. Verify absence of voltage with a rated tester.
- Never exceed the main breaker or PDU ratings. Size miner circuits for continuous load under your local code (often 80% of the breaker rating).

3.2 Distribution inside the container

Busway	**Overhead busway fed from the main breaker**
PDUs	**2 smart PDUs, 96 C19 outlets, each with its own 20 A breaker**
Per-outlet	**220–240 V line to neutral; 20 A ≈ 4.8 kW peak, about 3.8 kW continuous at 80% (calculated)**
Control	**Per-port monitoring and on/off switching**

CHECK THE MAIN BREAKER

At 415 V, a 350 A three-phase breaker supports about 252 kVA (calculated), and continuous load is often limited to 80% of that. Until Digital Shovel confirms how a pod carries 300 kW, plan the miner load below the main breaker's continuous rating.

SOURCE Digital Shovel M300 page; Cryptohall24 listing. Calculations: OneMiners.

04 CHAPTER Cooling and Airflow

The M300 pulls outside air through a filtered awning, past the miners, into a closed hot aisle, and out through four large fans.

4.1 How the airflow works

1. **Intake**
   Outside air enters through the awning intake and pleated filters.
2. **Miners**
   Miner fans push air through the shelves into the hot aisle.
3. **Hot aisle**
   CNC-cut barriers on each shelf keep hot air from leaking back to the cold side.
4. **Exhaust**
   Four 15,000 CFM fans in stages pull the hot air out.

4.2 Filters

- Pleated filters, MERV 5–15, standard size 24 × 24 × 4 in (2 in also supported). Replacements from Digital Shovel or any filter supplier.
- Change filters when the pressure drop rises or miner temperatures climb at the same ambient. Dusty sites need more frequent changes.

4.3 Rules for good airflow

- Fill every shelf position or fit blanking back-sheets, so air goes through miners rather than round them.
- Keep the doors closed while running; an open door short-circuits the hot aisle.
- Don't mix miners with opposite airflow direction on the same shelf.

SOURCE Digital Shovel M300 page; Cryptohall24 listing.

05 CHAPTER Installation and Commissioning

Installation turns a delivered container into a working mining site. Work through each step in order; the pre-power checklist must be complete and signed off before anything is energised.

5.1 Delivery and inspection

- Inspect the container on arrival before unloading: dents, damaged doors or seals, broken louvres or fans, water ingress, and loose fittings inside.
- Photograph any damage and note it on the delivery receipt before signing. Report it to OneMiners within 48 hours.
- Check the contents against the packing list: PDUs, shelving, fans, filters, keys, manuals and spare parts.

5.2 Placement

1. **Pad**
   Confirm the pad is level, cured and drained.
2. **Set down**
   Place the pod with a forklift or crane. Fit the intake awning as supplied.
3. **Anchor**
   Anchor to the pad as the site engineer specifies.
4. **Earth**
   Bond the pod frame to the site earth.

5.3 Connection

1. **Power**
   Licensed electrician lands the 5-wire supply on the main breaker and tests insulation, earthing and phase rotation.
2. **Network**
   Bring internet to the pod and connect the switches and smart-PDU network.
3. **Security**
   Connect the cameras and smart lock, if fitted.

5.4 Pre-power checklist

CHECK	DONE
Supply voltage, phase rotation and earthing tested and recorded	☐
Main breaker and all PDU outlet breakers OFF	☐

CHECK	DONE
Filters fitted; awning and exhaust clear	☐
Fans free to turn; no tools or packing inside	☐
Door seals and lock working	☐
Electrical inspection signed off	☐

5.5 First power-up

1. Close the main breaker; check busway and PDU voltages.
2. Start the exhaust fans and confirm airflow direction.
3. Switch on miners one shelf at a time, checking phase currents as you go.
4. After 30 minutes at full load, check intake/exhaust temperatures and look for hot spots on cables and PDUs.

SOURCE OneMiners general commissioning practice; component details from Digital Shovel's M300 page.

06 CHAPTER Loading Miners and Capacity

Plan the miner fleet against the container's real limits before you buy it. Then load, connect and test the miners shelf by shelf.

6.1 Capacity by miner model

A container fills up by whichever runs out first: **slots**, **power** or **cooling**. The table shows the power-limited count for common models. Use the lower of this count and the slot count, and confirm with OneMiners before you order miners.

MINER (TYPICAL RATED POWER)	POWER PER UNIT	UNITS BY POWER	SLOT LIMIT
Antminer S19k Pro 120 TH/s	2,760 W	108 (calculated)	88 (S19-class)
Antminer S19 95 TH/s	3,250 W	92 (calculated)	88 (S19-class)
Antminer S21 200 TH/s	3,500 W	85 (calculated)	88 (S19-class)
WhatsMiner T21 190 TH/s	3,610 W	83 (calculated)	88 (S19-class)

Units by power = container power limit ÷ miner rated power, rounded down (calculated). Rated powers from Bitmain and MicroBT specifications; check the label on your miners. Leave headroom for fans, lighting, network gear and power-supply losses. Also respect the main-breaker caution in 3.2.

6.2 Loading miners

1. Load from the bottom shelf up. Seat each miner with its exhaust facing the hot aisle.
2. Plug each miner into its own C19 outlet. Note outlet, phase and miner serial on a map.
3. Switch on outlets one at a time from the smart PDU and confirm each miner boots.

> **CAUTION**
> Balance miners across the three phases as you load. An unbalanced load overheats one phase and can trip the main breaker.

6.3 Network

- Plan one IP per miner plus PDUs, cameras and switches; a /24 network is enough for one pod.
- Use a wired uplink, with a cellular or second-ISP backup for remote access.

SOURCE Digital Shovel M300 page (slots, PDUs); OneMiners loading practice.

07 CHAPTER Operation and Monitoring

Most container problems show up first as rising temperatures or power changes. Watch the monitoring daily and act on trends, not just alarms.

7.1 Monitoring

- Smart PDUs: per-port power monitoring and remote switching (Digital Shovel).
- Internal and external IR cameras.
- Miner dashboards or your fleet software for hashrate and temperatures. OneMiners' platform monitors hosted pods.

7.2 Daily and weekly checks

WHEN	CHECK
Daily	Hashrate and online count per shelf; any miner offline or overheating; power draw against the planned load; intake and exhaust temperatures.
Weekly	Walk-round: fans running, filters clean, doors sealed, no water ingress, no burning smell, no hot spots on cables or PDUs (use a thermal camera if available).
Monthly	Check PDU and breaker loads per phase; compare with the previous month. Check cameras, door lock and internet backup.

7.3 Seasonal operation

- Hot weather: watch intake temperature; clean filters more often in summer dust.
- Cold weather: avoid frost on intake surfaces; ask about hot-air recirculation for sites below freezing.

SOURCE Digital Shovel M300 page; OneMiners operating practice.

08 CHAPTER Maintenance and Troubleshooting

Clean air paths, tight connections and a healthy cooling system keep a container running. Most faults trace back to one of these three.

8.1 Maintenance schedule

INTERVAL	TASK
Weekly	Inspect filters; clear debris from the awning and exhaust.
Monthly	Change or clean filters as needed; check fan bearings and noise; check door seals.
Quarterly	Isolate, then thermally scan and check tightness of busway and PDU connections; blow dust from miners.
Yearly	Full electrical inspection; check anchors, pad and corrosion; replace worn back-sheets.

Intervals are OneMiners recommendations unless a source is given. Shorten them at dusty, humid or coastal sites.

DANGER
Isolate and lock out the supply before working on PDUs, fans, busway or wiring. Only qualified electricians may open distribution panels.

8.2 Troubleshooting

SYMPTOM	CHECK
Whole container off	Utility supply, transformer and main breaker. Find the cause of any trip before resetting.
One shelf or PDU off	PDU breaker or outlet breakers; overload on that PDU; loose PDU feed.
Miners overheating	Intake temperature, dirty filters, failed fans, gaps letting hot air back into the cold aisle, blocked exhaust.
Miners offline but powered	Network switch, uplink and router; DHCP pool size; cabling to that shelf.
Breaker trips repeatedly	Overload or phase imbalance. Rebalance miners across phases and reduce load. Call an electrician.

SYMPTOM	CHECK
Condensation or icing	Cold intake air on cold surfaces. Use recirculation or reduce intake until temperatures stabilise.

ONEMINERS
For a container bought or hosted through OneMiners, send the symptom, photos and monitoring screenshots to **service@oneminers.com** or WhatsApp **+1 305 867 6143**.

SOURCE OneMiners maintenance practice; filter details from Digital Shovel.

09 CHAPTER OneMiners Services

OneMiners can deliver the container to your site or host it for you. This chapter summarises the options and terms as published on the product page.

9.1 Deployment options

OPTION	WHAT ONEMINERS DOES
Delivered to your site	Ships the container turnkey for your own installation. Your engineers handle site works, utility connection and commissioning.
Managed hosting	OneMiners hosts, powers, cools and monitors the container and its miners in one of its facilities, from day one.
Consultation	Use **Request Consultation** on the product page to size a site: power, transformer, cooling and miner mix.

9.2 Delivery, payment and warranty

- Orders are processed within 48 hours of verified payment; bulk orders may take longer. Estimated delivery is 5–7 business days after dispatch, plus customs time. Carriers: DHL Express, UPS, FedEx, TNT.
- Delivery is DDP by default. Where DDP isn't available, DAP applies and the buyer is the importer of record.
- Payment: BTC, LTC, SEPA bank transfer (1–3 business days), OneMiners Balance, or in person. Invoices on request.
- Miners are not included; the container is infrastructure only. Digital Shovel quotes delivery in as little as three weeks depending on configuration (S300 announcement, 2023).
- OneMiners' 7-year warranty applies to **miners** hosted by OneMiners. Container and miner warranties are separate; the OneMiners product page doesn't publish a container warranty. Get the container warranty terms in writing at purchase.

ONEMINERS
Hosted at a OneMiners site, the container is installed, commissioned and monitored by our team. Ask sales which locations accept your container type and what the current hosting rate is.

ONEMINERS OneMiners container product pages (shipping, payment and FAQ sections) and "Best Bitcoin Mining Containers to Buy in 2026" (21 Sep 2026). Checked 7–8 Nov 2026.

10 CHAPTER Resources and Support

Where to find manufacturer information, OneMiners services and help.

10.1 Resources

DIGITAL SHOVEL
Company site
www.digitalshovel.com

DIGITAL SHOVEL
M300 page
ds-dev.netlify.app/M300

ONEMINERS
Product page
oneminers.com/collections/mining-containers/products/m300-minipod

ONEMINERS
Mining containers
oneminers.com/collections/mining-containers

ONEMINERS
Container buying guide
oneminers.com/blogs/news

ONEMINERS
Manuals & Firmware Library
oneminers.com/pages/manuals-and-firmware

10.2 Contact OneMiners

SUPPORT, 24/7

+1 305 867 6143

WhatsApp

+1 607 9009 004 · Sales, USA

service@oneminers.com · Service and repairs
sales@oneminers.com · Sales
payinquire@oneminers.com · Payments

Telegram: t.me/oneminers_hosting

ADDRESS

CIRCLEHASH LLC
701 Tillery Street
Austin, Texas 78702, USA

Contact page

Manuals library

10.3 Sources used for this version

1. Digital Shovel, M300 Minipod page: capacity, shelves, fans, filters, electrical input, main breaker, smart PDUs, security, bundle.
2. Cryptohall24, "4-unit set – Digital Shovel M300 Minipods 1.2 MW": dimensions, weight, capacity, input, set configuration.
3. Digital Shovel S300 MiniPOD press release (PR Newswire, 11 Oct 2023): company location, delivery time.
4. Bitcointalk, "NEW 2.5MW Digital Shovel M300 Mini Pod 8 String Set" (Mar 2024): recirculation upgrades.

5. OneMiners: product page, "Best Bitcoin Mining Containers to Buy in 2026" (21 Sep 2026), site contact details, Media Kit. Checked 7–8 November 2026.

10.4 Revision history

VERSION	DATE	CHANGES
V1.0	Nov 2026	First edition. Manufacturer specifications with conflicts listed in 1.4, site, electrical, airflow, installation, capacity planning, operation, maintenance and OneMiners services.