MODULAR · AIR-COOLED CONTAINER

20FT Container
168 miners

Air-cooled mining container · water curtain + exhaust fans · S19 / S19k Pro / S21 / T21



MAKER
Not named

COOLING
Water curtain + exhaust fans

POWER
2 × 1,250 A cabinets

AISLES
Hot / cold separated

Product Manual

Setup, operation, maintenance and OneMiners hosting guide

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

Contains reseller information summarised for customer reference.

About this manual

This manual covers the **20FT Mining Container for 168pcs (S19kpro/S19/S21)**: an air-cooled container for up to **168** miners, cooled by a water curtain and exhaust fans.

No seller names the manufacturer or publishes a power rating, and no manufacturer documentation was available. Specifications come from the Mineshop.eu listing of the same product; everything else is OneMiners' general container practice. Treat this edition as a planning guide and get the factory's documents with your order.

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	WATER	CLIMATE	MINERS
2 × 1,250 A cabinets	**Supply + drainage**	**Dry or temperate**	**≤ 168 slots**
Voltage: confirm with seller.	For the water curtain.	Curtains add humidity.	Check total power (6.1).

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

© OneMiners, 2026. This manual combines information published by the manufacturer, an unnamed container manufacturer (specifications as published by resellers), and other cited sources with planning guidance written by OneMiners. Manufacturer content remains the property of its owner and is summarised here for the convenience of OneMiners customers. All product names and trademarks belong to their respective owners.

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

This container houses up to 168 air-cooled miners on 7-layer shelving, with hot/cold-aisle separation, a water curtain on the intake and exhaust fans on the hot side.

DOCUMENTATION STATUS

No manufacturer, power rating, voltage, weight or certification is published by OneMiners or the other sellers we checked. One reseller describes the 20FT unit as built on a "new 40HQ standard shipping container", which conflicts with the 20 ft name. Confirm the base container, power rating and voltage in writing before ordering.



Figure 1-1 20FT Mining Container 168pcs. Image: OneMiners product photo.

1.1 Key figures

168 slots	2 × 1,250 A	7 layers
S19 / S19k Pro / S21 / T21	Power cabinets	Shelving

1.2 Specifications

ITEM	VALUE
CONTAINER	
Manufacturer	Needs verification
Type	Modular air-cooled mining container
Base container	"New 40HQ standard" (reseller) vs 20 ft (title) · Needs verification
Size	6,058 × 2,438 × 2,591 mm per OneMiners (standard 20 ft) · Needs verification
Weight	Needs verification
CAPACITY AND POWER	

ITEM	VALUE
COOLING AND AIR	
Cooling	Water curtain + exhaust fans; fan quick connectors
Aisles	Isolation panels separate hot and cold aisles
Filtration	Dustproof net on the exhaust side; optional dust filters and curtain extensions
FIT-OUT	
Shelving	7-layer shelving; galvanised mesh cable bridge

ITEM	VALUE
Miners	**Up to 168 (S19, S19k Pro, S21; OneMiners adds WhatsMiner T21)**
Power cabinets	**2 × 1,250 A**
PDUs	**Universal PDUs with wiring**
Power rating / voltage	**Needs verification**

ITEM	VALUE
Lighting	**Emergency and escape lights, lighting circuit, sockets**
Network	**Structured cabling with labels; LAN or hybrid wireless**
Monitoring	**Integration with third-party systems**

SOURCE Mineshop.eu, "20FT Mining Container for 168pcs (S19kpro/S19/S21)"; OneMiners product page (checked 8 Nov 2026).

1.3 What's in the package

ITEM	STATUS
Container, shelving, power cabinets, PDUs, cabling	Included (reseller)
Water curtain, exhaust fans, isolation panels	Included (reseller)
Dust filters, water curtain extensions, climate-specific builds	Options (reseller)
Hydro manifolds and dry-cooler	Not applicable: air-cooled
Miners, transformer, water and drainage connections	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
Manufacturer	Not named by OneMiners, Mineshop.eu or Bitmern	**Needs verification**
Base container and size	Title: 20FT · Mineshop.eu: "new 40HQ standard shipping container" · OneMiners: standard 20 ft dimensions	**Needs verification**
Power rating and voltage	Not published. 2 × 1,250 A cabinets; OneMiners heat section shows 1,200 kW	**Needs verification**: see 6.1 for miner loads
Cooling	OneMiners spec table and reseller: air (water curtain + exhaust) · OneMiners page also says hydro, dry-cooler	Air
Certifications	OneMiners: CSC, UL 508A, CSA, IEC · resellers: none stated	**Needs verification**

02 CHAPTER Site Planning

The container needs a three-phase supply sized for up to about 600 kW of miners, a water supply and drainage for the curtain, and a climate where evaporative cooling works.

2.1 Choosing the site

- Water curtains work best in dry or temperate climates. In humid climates they add little cooling and raise humidity at the miners.
- Provide clean water to the curtain and drainage for overflow and bleed-off; plan for freezing in winter.
- Orient the curtain (intake) side to clean air; keep the exhaust away from other intakes.

2.2 Foundation, access and lifting

Footprint	**20 ft per the title, but see 1.4 · Needs verification**
Weight	**Needs verification: plan the base for a loaded container**
Base	**Level concrete or engineered base, with drainage for curtain water**
Lifting	**Corner castings; crane or side-lifter**

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. Climate-specific builds are available on request (reseller).**
Humidity	**Evaporative curtains raise humidity; keep miner intake air non-condensing**
Freezing	**Drain the curtain system or switch it off before freezing weather**

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 Mineshop.eu listing; curtain and site guidance: OneMiners.

CHAPTER 03

Electrical Supply

Power enters through two 1,250 A power cabinets and is distributed to universal PDUs on each shelf row.

3.1 Supply requirements

Supply	**Needs verification: voltage and phases not published**
Power cabinets	**2 × 1,250 A**
Load	**Depends on miners: about 464–606 kW for 168 units (calculated, see 6.1)**

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

PDUs	**Universal PDUs with PDU wiring**
Fans	**Exhaust fans with quick connectors**
Lighting	**Emergency and escape lighting, lighting circuit, sockets**

GET THE ELECTRICAL DOCUMENTS

Ask for the single-line diagram, breaker schedule and PDU ratings with the order. Don't energise until a licensed electrician has checked them against your supply.

SOURCE Mineshop.eu listing. Calculations: OneMiners.

04 CHAPTER Cooling and Airflow

Outside air is cooled as it passes through the wet curtain, flows through the miners into the separated hot aisle, and is pulled out by exhaust fans.

4.1 Airflow

1. **Curtain**
   Intake air passes through the water curtain and is cooled by evaporation.
2. **Miners**
   Miner fans push air through the shelves.
3. **Hot aisle**
   Isolation panels keep hot air separate.
4. **Exhaust**
   Exhaust fans pull hot air out through the dustproof net.

4.2 Running the water curtain

- Run the curtain only when it lowers intake temperature; in cool weather run fans only.
- Keep water clean; scale and algae block the pads and reduce airflow. Bleed off and refill as the pad supplier recommends.
- Watch miner intake humidity. Stop the curtain if condensation appears on miners or cables.

> **!** **WATER AND ELECTRICITY**
> Keep curtain water, overflow and spray away from PDUs and cable trays. Inspect seals and drainage before every hot season.

SOURCE Mineshop.eu listing (components); operating guidance: OneMiners.

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. **Base**
   Confirm the base is level, with drainage.
2. **Set down**
   Lift by the corner castings and place the container.
3. **Earth**
   Bond the container to the site earth.

5.3 Connection

1. **Power**
   Licensed electrician connects the supply to both power cabinets after checking the factory documents.
2. **Water**
   Connect the curtain supply and drainage; test for leaks.
3. **Network**
   Connect internet to the structured cabling.

5.4 Pre-power checklist

CHECK	DONE
Factory single-line diagram and breaker schedule received and checked	☐
Supply, phase rotation and earthing tested and recorded	☐
All PDU breakers OFF	☐
Curtain water and drainage tested; no leaks near electrics	☐
Electrical inspection signed off	☐

5.5 First power-up

1. Energise both power cabinets; check PDU voltages.
2. Start exhaust fans; start the curtain only if needed.
3. Switch on miners one row at a time, checking phase currents.
4. After 30 minutes at full load, check temperatures, humidity and hot spots.

SOURCE OneMiners general commissioning practice; components from Mineshop.eu. Reseller build time 30–45 days.

CHAPTER 06

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	LOAD FOR 168 UNITS	SLOT LIMIT
Antminer S19k Pro 120 TH/s	2,760 W	464 kW total (calculated)	168
Antminer S19 95 TH/s	3,250 W	546 kW total (calculated)	168
Antminer S21 200 TH/s	3,500 W	588 kW total (calculated)	168
WhatsMiner T21 190 TH/s	3,610 W	606 kW total (calculated)	168

For this container no power limit is published, so the third column shows the total load for 168 miners of each model (calculated). Check that the supply and the two 1,250 A cabinets can carry it at your voltage.

6.2 Loading miners

1. Load evenly across rows and phases, exhaust toward the hot aisle.
2. Record shelf, PDU, phase and serial for each miner.
3. Switch on and confirm each miner boots before loading the next row.

> **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

- Structured cabling with labels; LAN or hybrid wireless.
- One IP per miner; plan a /24 for 168 miners plus devices.

SOURCE Mineshop.eu listing; 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

- Reseller: integration with third-party monitoring systems. No specific system is included.
- Add intake/exhaust temperature and humidity sensors, especially with the curtain running.
- OneMiners' platform monitors hosted containers.

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, dry weather: curtain on; check water supply, pads and drainage daily.
- Humid weather: curtain off if it doesn't lower intake temperature.
- Freezing weather: drain the curtain system.

SOURCE 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 curtain pads, water distribution and drainage; clean the exhaust dustproof net.

INTERVAL	TASK
Monthly	Descale or clean pads; check exhaust fans and quick connectors; check PDU loads per phase.
Quarterly	Isolate, then check connection tightness and scan for hot spots; blow dust from miners.
Yearly	Replace worn curtain pads; full electrical inspection; container seals and corrosion.

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.
High humidity at miners	Curtain running in humid weather or overflowing. Turn it off or reduce water flow.

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.

CHAPTER 09

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. Resellers quote a standard build time of 30–45 days.
- 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.

CHAPTER 10

Resources and Support

Where to find manufacturer information, OneMiners services and help.

10.1 Resources

MINESHOP.EU
Same product listing
mineshop.eu/20ft-mining-container-for-168pcs-s19kpro-s19-s21

BITMERN
Same product listing
shop.bitmernmining.com/product/20ft-mining-container-for-168pcs-s19kpro-s19-s21/

ONEMINERS
Product page
oneminers.com/collections/mining-containers/products/20ft-mining-container-for-168pcs-s19kpro-s19-s21

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

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ADDRESS

CIRCLEHASH LLC
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Contact page

Manuals library

10.3 Sources used for this version

1. Mineshop.eu, "20FT Mining Container for 168pcs (S19kpro/S19/S21)": capacity, power cabinets, PDUs, cooling, filtration, lighting, network, shelving, base container, build time.
2. OneMiners product page: supported models, dimensions, cooling type as listed.
3. 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, written as a planning guide in the absence of manufacturer documentation. Reseller specifications with conflicts listed in 1.4, site, electrical, water-curtain cooling, installation, capacity planning, operation, maintenance and OneMiners services.