



GREEN RACK

The Future Of Data Centers



OUTDOOR GR100

Micro Data Centers

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It's an all-in-one compact, portable and secure micro data center that eliminates the need for traditional on-premise server room.

Designed and built to protect your assets and IT infrastructure no matter where you are located - wherever that may be.

As an alternative to indoor data centers, the Outdoor GR100 is a micro data center that has the added advantage of being placed outdoors.

The Outdoor GR100 has the same features as the Indoor GR100, with the added advantage that it can be placed outdoors.

The OUTDOOR GR100 is optimized according to the needs of each user, totally isolated from the environment, with the necessary physical infrastructure to provide operational continuity to your critical equipment, including high security standards such as restricted access, remote monitoring of environmental variables, fire control, UPS, cooling system and IP65 rated to protect your IT infrastructure from dust and water.

Applications

Outdoor GR100 is a stand-alone data center solution that does not require additional space in expensive areas. It can be placed anywhere you want: either outside an office building, in a remote location such as a mine or farm, or even on the rooftop of a building. Outdoor GR100 is ideal for your perimeter deployment needs.

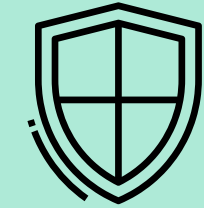


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OUTDOOR GR100 - Benefits

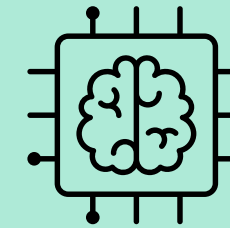
Fortress

- Safeguard your data with a secure, IP65-rated metal enclosure that shields against dust, water, and UV.
- Maintain control with a secure door and manage access easily.
- Pre-configured and insulated to keep servers at a stable temperature; simply add your equipment and power it up.



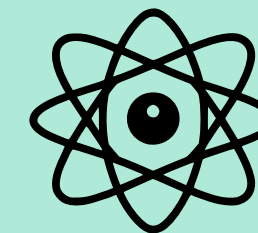
EcoSmart

- Highly energy efficient with low PUE, reducing carbon emissions and energy costs.
- Remote management and monitoring with built-in alerts and automation for continuous uptime.



Versatile

- Ideal for distributed setups like smart mines, 5G networks, and smart farms.
- Easy transport and installation on a stable plinth, with internal LED lights and cable management for convenience.



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Monitoring Systems & Alarms

Monitored Parameters:

- Temperature
- Humidity
- Dew point
- Door openings
- Smoke detector

Alarms:

- Audible and visual alarms for critical events or failures.

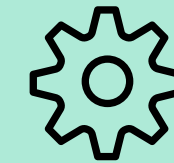
Cameras:

- Front and rear cameras for visual area surveillance.

Monitoring Tools:

- Web: Access through a web interface.
- Windows Application: Monitoring from the NOC (Network Operation Center) using a Windows application.

When temperature changes, the OUTDOOR GR100 can automatically activate the backup cooling, adjust the temperature, or open a door.



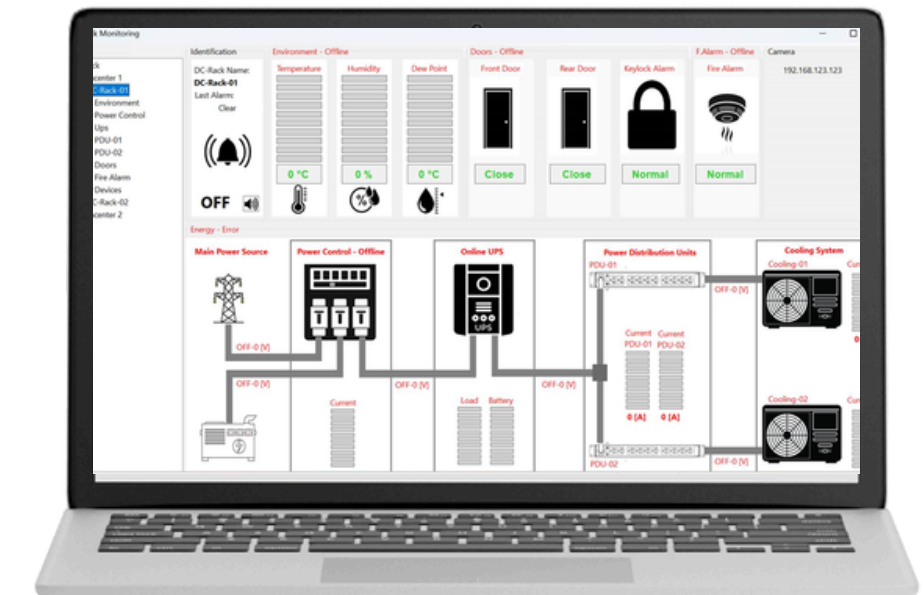
Automated fire control monitors the system continuously and sends instant alerts if an issue occurs.



Dual cooling ensures that if one system fails, the other activates, and the backup system responds to sudden temperature increases.



In a power outage, the OUTDOOR GR100 can shut down non-essential equipment or activate a backup generator.



OUTDOOR GR100 - Product Features



Dual cooling ensures that if one system fails, the other activates

Redundant power, with automatic transfer system

Secure centralized door operation with complete access control; includes standard keypad and card access.

The glass windows are constructed from laminated glass, with solid doors also available.

The OUTDOOR GR100 is made from 1.5 mm thick metal

IP65 Protection:

- Complete resistance to dust and protection against low-pressure water jets.
- Ideal for industrial and outdoor environments where reliability in harsh conditions is required.
- Designed to withstand shocks, drops, and vibrations, suitable for demanding environments.



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OUTDOOR GR100 - Technical Parameter

System	Index	OUTDOOR GR100
Power supply & distribution	UPS Capacity	10KVA
	Power Factor	1
	Total Power Input	220V/32A
	Height	0U
	Lightning Protection	Cclass
	Energy Redudancy	Automatic Transfer System (ATS)
Cabinet	Reccomended number of IT cabinets	1
	Available Space	28U
	Number of PDU´s in a single rack	2 x 32A, 220V, 24 x C13, 6 x C19
	Closed Aisle	Fully enclosed IP65 rated
	Emergency ventilation	Fan-type
	IT space expansion	Standard Itcabinet with 42U usable space (optional)
Refrigeration	Type	Rack Mount
	Cooling capacity (KW)	Redundant dual Cooling 3.5kW (´12.000BTU)
	Sensible heat ratio	1
	System	Compression system +EC fan
Monitoring	Monitoring volume	UPS Power, distribution AC-water, leakage, Temperature, Humidity, smoke, door sensor
	Function	Data collection and storage, alarm management, energy consumption analysis, remote access.
Fire	Heptafluoropropane	1U Rack-mounted gas fire extinguishing system
Size	W*D*H-mm	800*1000*2000
Environment	Environment temperature	0-45°C
	Environment humidity	Relative humidity 0%-95%, no condensation
	Altitude	<1000m, the excezz part is derated according to relevant standars



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