

Micro Data Center Solution



● Product Description

Cabinet Data Center is an integrated cabinet which contains cooling system, power system, monitoring system and rack system, etc.. There are more and more micro data centers, and it has been facing the dilemma that it is difficult to unify the planning, construction and operation management. The integrated cabinet deeply integrates data center infrastructure products, including multiple subsystems such as UPS, power distribution, refrigeration, cabinets, and fire protection, and implements overall management of the entire system through the monitoring system.

● Product Features

Safe and Reliable

- All components follow domestic and international standardized production standards to ensure product quality.
- Pre-installation, pre-commissioning and other process are controlled at various levels to ensure product installation and operation safe and reliable.
- A single cabinet is a complete system, suitable for various complex scenes (dust, narrow space, no insulation measures, etc.).
- Integrated design, overall delivery, avoid system design problems.
- The door pop-up system can delay the aisle overheating and reserve time for data backup.
- The cabinet integrates an intelligent monitoring system to ensure safe and reliable operation of the computer room.

Easy Installation and Rapid Deployment

- Modular design of power distribution, easy installation and maintenance.
- Rack-mounted air conditioner indoor unit, pipe thread connection, easy maintenance.
- The computer room does not need special decoration treatment, and the equipment is ready to use. Installation and commissioning cycle only need 3 hours.
- A single cabinet is a complete system, plug and play.

Efficiency and Energy Saving

- Proximal refrigeration, high-efficiency power supply, and the overall annual average PUE of single cabinet≈ 1.30.
- The power distribution, UPS, monitoring, and refrigeration cabinets are integrated to save space.
- Engineering free design, free decoration and wiring, remoteoperation and maintenance are not on duty, saving TCO.

Intelligent Management

- The monitoring system is extensible and compatible with third-party monitoring systems; friendly HMI.
- Support local and remote WEB interface access, SMS alarm function.

● One-stop integration to simplify design and deployment



● Applicable Scene

- Computer rooms of medium and small enterprises, large enterprises, government branch offices.
- Financial business offices, communication business halls and base stations.
- Commercial retail institutions, tourist attractions.
- Gas stations, toll stations, smart buildings.
- Grassroots public security agency, government agency.

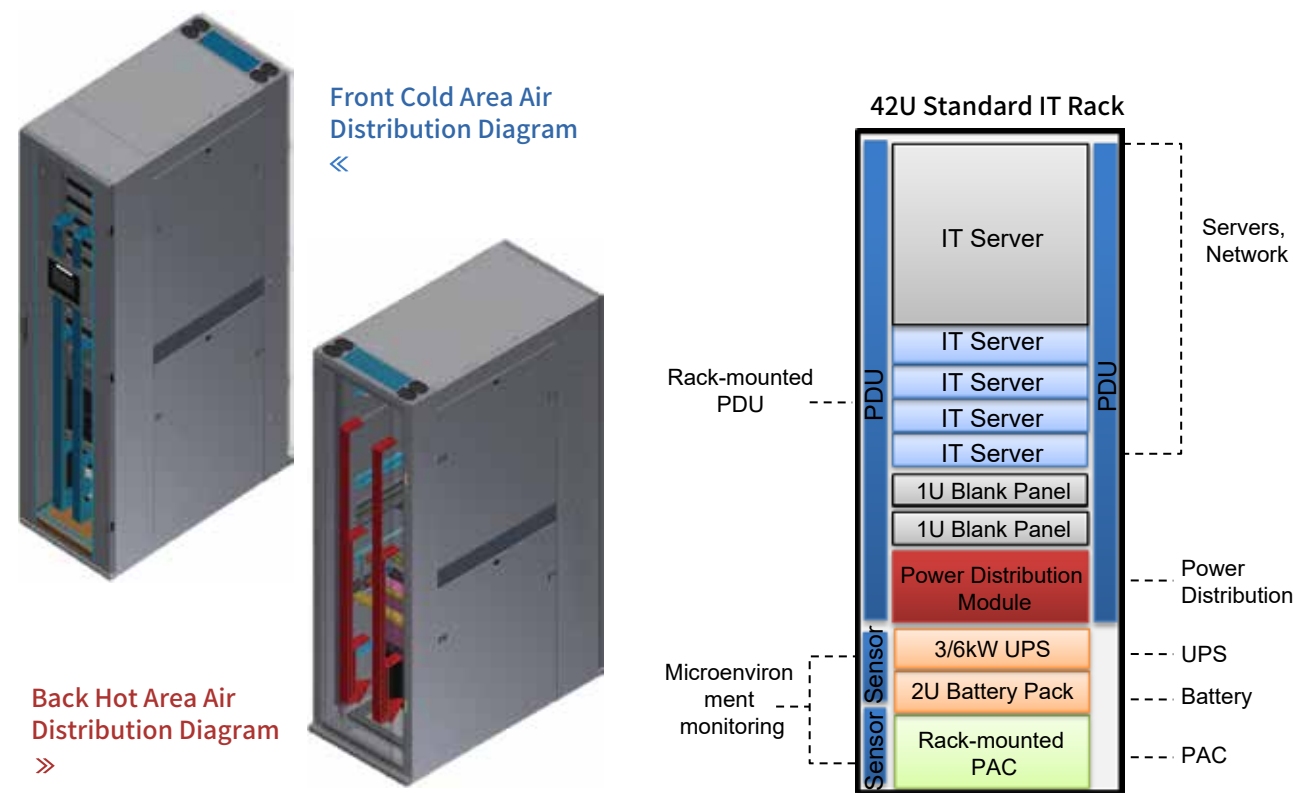
● Floor area

The overall area of a single cabinet is 0.72m², which is suitable for computer rooms within 10-20m², such as small archives.

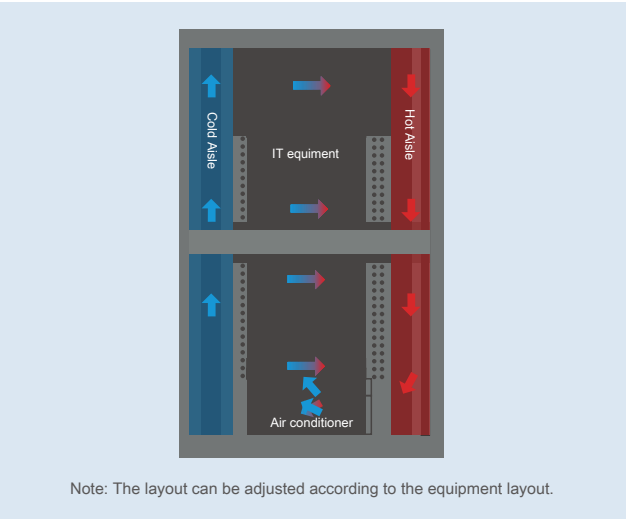
● System Capacity

Capacity of single cabinet≈3~5kVA

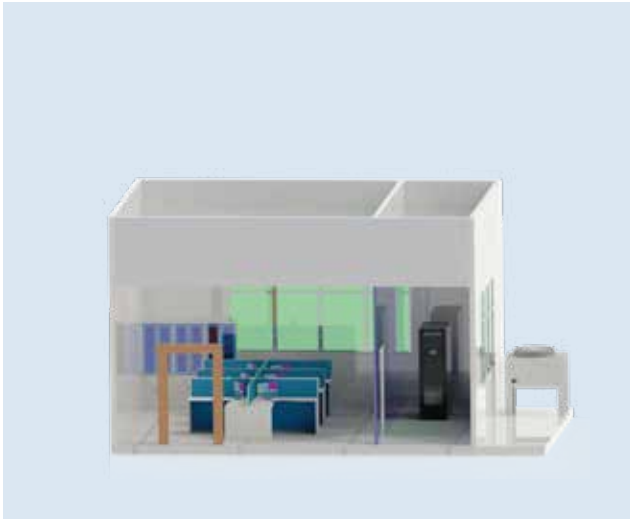
● Product Layout Diagram



● Airflow Reference Chart



● Application Scenario



● Product Parameters

Project		Description	42U
Overall Parameters		Power Supply System	220Vac, 50Hz, 1Ph+N+PE
		Operating Temperature	0~40℃
		Humidity Range	5~95%
		Altitude	0-4000m(derating required above 1000m)
Certifications		Certificates	3C、Taier
Cabinet System		Cabinet Dimensions:WxDxH(mm)	600×1200×2000
		Cabinet Composition	Single Control Cabinet
		Cold and Hot Aisles	Dual-closed Cold and Hot Aisles
Available Equipment Space		Available Space	30U(Single Battery Pack)
Power Distribution System	System Input	Input Main Switch	32A
	System Output	Output Circuits	AC Mains Output: 4×16A/1P, UPS Output: 3×16A/1P; 2×10A/1P; DC: 12V×2
	UPS	Capacity	3KVA
		Configuration	Single UPS
		Power Factor	0.8
		Efficiency	90%
	PDU	Installation Method	Vertical Installation
		Type	GB Standard
		Configuration	GB:12×10A
	Battery Pack	Capacity	9AH
		Quantity	1~4
	Standby Power	Standby Power Method	Battery Pack / Battery Rack / Battery Cabinet
	Battery Cabinet	Configure On demand	15min ~4 hours
Monitoring System		Integrated Monitoring Unit	10-inch Touch Screen
		SMS Alarm	Optional
		Dazzling Lights	Standard
		Water Leak Sensor	Standard
		Temperature and Humidity Sensor	Standard
		Door Magnetic Sensor	Standard
		Smoke Sensor	Standard
Cooling System	Air Conditioner	Cooling Capacity	3.5KW
		Category	Rack-mounted Inverter
		Operating Voltage	220V
	Emergency Ventilation	Heat Dissipation Capacity	3KW
		Operating Voltage	220V
Dimensions / Weight		Packaging Dimensions:WXDXH(mm)	734×1360×2200
		Net Weight	142Kg (excluding battery pack)
		Battery Pack Weight	15Kg