

Highly integrated, mobile, convenient container DC solution



IDS1000 All-in-one container data center

Introduction

The All-in-One container data center solution functions as a foundation for cloud computing in enterprise data centers. It meets the requirements of telecom operators and Internet service providers for environmental protection, energy conservation, and fast deployment. In addition, it has distinct advantages in scenarios such as disaster relief operations, military operations, oil exploration, and enterprise data management.



Features

Optimal Reliability and Security

- The two-porch design prevents wind and sand from entering the equipment compartment when doors are open for maintenance.
- The All-in-One is characterized by optimal electromagnetic compatibility (EMC) and protection against external damage.

Fast Deployment

- The cooling system, power distribution system, monitoring system, security system, and cabinets are installed before delivery. The solution's streamlined manufacturing and installation processes take less than 10 weeks to complete.

Cost Effectiveness and Energy Saving

- One stop solution, integrated all of systems, which simplifies the installation.
- The hot and cold aisles are separated in the equipment compartment to ensure high cooling efficiency. PUE<1.6



Application Scenarios

- Disaster recovery solution, emergency data center
- Fast deployment and movable scenarios

Specifications

	Sub Feature	IDS1000-A40	IDS1000-A20
Power	Incoming power	Dual (N+1) surge protected inputs	
	Lightningproof level	Class B, 100kA(External)/60kA(PDB)	
	Power density per rack	7.5kW(Max) /5kW(average) per rack	
	UPS mode	Huawei UPS 2000G, 20kVA rack mounted UPS	
	UPS redundancy	3+1 redundancy	2+1 redundancy
	BAT backup time	15mins	10mins
Cooling	Technology	DX (Direct Expansion) type air-conditioner units	
	Containment	Hot and cold aisle isolation	
	Cooling Capacity	12.5kW per unit, 4+1 redundancy	12.5kW per unit, 2+1 redundancy
	Refrigerant	R22	
	Humidity	Optional humidifier	
Design operation parameters	Cold Aisle Temperature	22-27° C within sensor tolerances	
	Humidity Range	20% to 80% relative humidity	
Environmental requirements	Operation temperature	-33° C-45° C	
	Operation humidity	10% to 90% relative humidity	
	Altitude	<3000m	
Construction	Base Construction	40' standard ISO shipping container	20' standard ISO shipping container
	Insulation	Polyurethane foam insulation(top-75mm, side-40mm)	
	Data Cabling Distribution	Power cables and data cables are separated, above the ceiling	
	Pipes design	AC pipes are under the floor	
	Protection level	IP55	
	Illumination	300 Lux	
Size	External dimensions(L*W*H)	12196*2438*2896(mm)	6098*2438*2896(mm)
	Total IT load	40kW	20kW
	Typical rack capacity	8 IT racks, 360U	4 racks, 180U
Fire control	Type	Automatic fire detection & suppression system c/w emergency release function	
	Alarm	Fully monitored automated detection, supporting audible and visual alarm	
	Detection	Addressable analogue system c/w double knock condition to initiate gas release	
	Extinguishant	FM 200	
	Fire rating	45mins	
Security	Access Control	Card access system (RFID)	
	IP Camera	Double resolution standard IP Cameras, in porch and the long corridor	
Management	Management function	Monitors internal temperature, the humidity control system , the fire detection & suppression system , the access control system , the air-conditioner system	
		Supporting E-mail, SNMP & SMS monitoring	
		Interoperable with all backup power supply systems via programmable dry contacts (UPS's & Generators)	

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