



Coolnet Data Center Product Solution Modular Data Center

Company Introduction

Coolnet focuses on the R&D, production and application of data center integrated solutions. It is a service provider in the field of information infrastructure construction, with technology, products and solutions, and is committed to providing customers with products and overall solutions in the fields of communication rooms, data centers, smart city construction and energy management.

Our solutions include data center temperature, humidity and energy-saving solutions, small and mediumsized computer room temperature control solutions, modular data center solutions, micro-module cabinet solutions, container data center solutions, communication outdoor cabinet temperature control and energy saving Solutions, cabinet temperature and humidity, and energy-saving solutions.



We have rich research and manufacturing experience in the field of data center equipment, with world-class laboratories, production testing equipment and a complete line of key equipment rooms. And passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have passed CE certification, CCC certification, CQC certification, CRAA quality certification, etc.

We are committed to "pay attention to customer needs and realize customer value" and establish a win-win cooperation pattern with customers. To become your most trustworthy, most grateful, most professional, most practical, and most reliable partner with the best vision. We will "make every effort to provide value-for-money products and services to make customers more competitive", and continue to explore and innovate.

SERVICE EXPERT TRUSTWORTHY AND RELIABLE



Production Description

Modular Data Center Description

With the rapid development of cloud computing and mobile Internet, traditional data centers face many challenges such as long construction period, high initial investment, low efficiency under low load, difficult expansion under high load, poor management efficiency, etc., and it is difficult to meet the rapid growth of business needs. Coolnet 's micro-modular data center solution adopts a modular design and integrates data center infrastructure subsystems such as cabinet systems, channel systems, power supply and distribution systems, air conditioning systems, and monitoring systems to provide customers with rapid deployment, high efficiency, energy saving, A new type of data center with compact space and flexible expansion can effectively meet customers' requirements for efficient, reliable, fast, flexible, and intelligent management of data centers in the cloud era.

Aisle Assembly Component 8 Camera 0 PDU Temperature and Humidity Sensor Water Leakage Detector 门磁 Monitoring System Bracket

Product Overview

Coolnet mini-modular data center can flexibly adopt the layout of double-row cabinets + cold/hot aisle or single-row cabinets + cold/hot aisle according to user site conditions. Under the two structural layouts, all subsystems such as cabinets, channels, power supply and distribution, refrigeration, security, environmental monitoring and management, and wiring can be integrated according to user needs, providing customers with new data of rapid deployment, high efficiency and energy saving, compact space, and flexible expansion Central solution.

Applicable Sence

Single module Solution :

It is suitable for small and medium data centers with power consumption less than 180KW and an area of less than 100 square meters. For data center needs of small and medium enterprises and branch offices of large enterprises.

Multi-module solution:

Through the flexible arrangement of multiple modules, a large-scale data center can be constructed. For the needs of large-scale data centers in IDC, large enterprises, financial centers, governments, military, supercomputer centers, education, medical and other industries

Features

1. Power supply and distribution architecture, close to heat source cooling methods, effectively reduce the module PUE value; 2. Closed channels isolate hot and cold air flows, eliminate ineffective air circulation and eliminate local hot spots; High-efficiend 3. Module integrated management, coordinated operation, effectively improves the efficiency

of functional module components

Simple and Reliable

higher quality assurance; site conditions of users;



4. Standardized components, de-engineering,

and overall delivery; 5. Factory prefabricated and precommissioned, plug and play on site; According to business development on-



7. Productization of data center infrastructure to reduce the impact of construction technology and improve system reliability;

d deployment

₹

- 8. Product-level factory inspection to obtain
- 9. Strong adaptability, suitable for various on-



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Production Description

Cooling Solution

Air-cooled module solution

Applicable to various medium and small data centers, such as: operator data centers, data centers of various industries (finance, government, energy, medical, etc.) and other enterprise-level data centers.



Layout plan

In Row Air Conditioning Closed Cold Aisle



In Row Air Conditioning Closed Hot Aisle

It is suitable for all kinds of large and medium data centers with

chilled water hosts, such as: Internet data centers, operator data

centers, data centers in various industries (finance, government,

energy, medical, etc.) and other enterprise-level data centers.

PDU UPS Rack11 Rack12 AC3 Rack13 Rack14 Rack15 Rack16 AC4 Rack17 Rack18

Cold Aisle

Rack1 Rack2 AC1 Rack3 Rack4 Rack5 Rack6 Rack7 AC2 Rack8 Rack5

Chilled water module

Water Distributi Cabinet

- conditioning has the following characteristics
- equipment, so that the cold capacity is fully utilized; More stable air supply;
- Reduce ineffective air flow and reduce equipment energy consumption
- Appropriately increasing the supply air temperature can
- improve the efficiency of the unit;
- The combination of closed cold aisle system and In Row airconditioning has the following characteristics:
- The cold air is enclosed in the cold aisle and passes through the The hot air is centralized and isolated, and the unit is in the best operating condition;
 - The overall temperature of the computer room is effectively controlled;
 - The computer room can achieve partial cold storage effect;
 - Appropriately increasing the supply air temperature can improve
 - the efficiency of the unit;

Specification

Equipment System	m Item	1200mm enclos		
	Dimension	14400mm (L)*36 1200mm enclose 14400mm (L)*24		
System	Rack Quantity	Dual Row Rack Single Row Rac		
	Power per Rack	power consumption		
	Power per moudl	e ≤180KW		
	Ambinent	T1: -30℃~+45		
	Altitude	0~1000m (Mor		
	Installation	Floor installatio		
	Dimensions	600mm(W)*1200		
	Space	42U		
	hole rate	75%		
Rack	Static load	1500KG		
	Earthquake resist	ance 9 Class		
	Environmental c	ertification Ro		
	Protection Class	IP20		
	Skylight	300mm / 600mr		
	Gate	Revolving slidir		
Enclosed Aisle	Wiring	Net format cable		
	Base	Cabinet base, ch		
	Anti-static floor	Calcium sulfate		
	Dimension	600mm(W)*1200		
	UPS Power Supp	ly 380VAC/400		
	UPS Rated Powe	r 80~300kVA		
	UPSPower modu	le 20kVA/30kV/		
Power Supply	Battery	40AH~240AH/1		
and Distribution	PDU power	Input : 100A~ Output: 10~6		
	PDU	32AInput, 8~24		
	Detection functio	nMain and branch		
	Preotection Class	IP20		
	Indoor Unit Size	300mm(W)*1200		
		600mm(W)*1200		
Cooling	Cooling Capacity	Cooling: 20~4 Chilled water :		
	Dorron Sumpler	Refrigerant cool		
		Eront Supply		
	All Supply	Englosed Hat/C		
	rype	Enclosed Hot/C		
Manital	Monitoria	Temperature and 1		
System	Fourinment monitoring	Power supply		
System	Equipment monitoring	, rower suppry,		



ed cold/hot aisle dual-row cabinets:

600mm(W)*2300mm(H), 2600mm with sunroof turning
ed cold/hot aisle Single-row cabinets :
400mm(W)*2300mm(H), 2600mm with skylight turning
s: ≤48
2ks: ≤24
tion: 3~5KW, Maximum: 14KW
oʻC
re than 1000m needs to be derated for use)
n, can be installed with or without anti-static floor
Jmm(D)^2000mm(H), can be customerized
m wide turning skylight, Flat roof skylight, Fixed skylight
ng door, aluminum allov sliding door
e tray/M-type sheet metal trunking
nannel base (installation of anti-static floor)
anti-static floor
Dmm(D)*2000mm(H),
VAC/415VAC(3Phase 5Wire), 50/60Hz, PF=0.99
A
2V Valve Regulated Lead Acid Battery
630A; 380VAC/400VAC/415VAC(3 phase 5Wire); 50/60Hz 3A/3P(1P) Multipath
4 /C13、C19/ lightning protection components optional
n status, voltage, current, power factor, power consumption, etc.
Dmm(D)*2000mm (H)
0mm(D)*2000mm (H)
IOKW
20~70KW
ling unit (RCU) : 120~240KW
50Hz
11.4.1
old Aisle

humidity, smoke detection, smart access control, camera, water leakage alarm upply, battery, power distribution, air conditioning



Rack

Description

Multi-functional cabinet developed for large, medium and small data centers. It has the advantages of sturdy structure, strong load-bearing capacity, noble and elegant and assembling structure design. Cabinet integrated three major solutions (power management solution, cable management solution, heat dissipation management solution), It can be used as a modular equipment installation infrastructure, cabinet-type power distribution cabinet, rackmounted battery box, Cabinet integrated user equipment, power distribution, UPS, battery box, and monitoring system, greatly save the equipment area in the computer room.



- The ventilation rate reaches 75%.
- External hinge, opening angle greater than 130°.
- There are two combining parts on the front and rear columns, which is convenient and quick to combine the cabinets.
- Adopts a detachable design of upper and lower sections, which is convenient for disassembly and assembly without tools.
- Doors can be quickly disassembled to facilitate on-site construction.
- Equipped with a special key to improve the operation safety.



- Multiple cable management channels reserved at the top and bottom of the cabinet, and can be adjusted as needed. Cable management solution: top in and top out, bottom in and bottom out, top in and bottom out, bottom in and top out. Cabinet heat dissipation management solution: forward air return, upper air supply, and bottom air supply.
- Cabinet power management solution: optional modular power distribution unit, rack PDU, vertical hanging PDU.



- Equipped with cabinet installation base to reinforce the cabinet fixation and enhance the earthquake resistance effect.
- Assembled structure design, the maximum static load can reach 1500Kg (using supporting feet or base) Maximum Moving load 1000Kg (install casters to move the cabinet)
- Rich and complete optional accessories



Features

- 19-inch design, EIA standard "G" structure column
- High-quality cold-rolled steel plate, the main frame is not less than 2.0mm, the load-bearing layer is not less than 1.5mm, the front and rear door panels are not less than 1.2mm, and the others are not less than 1.0mm







• The front door adopts arc or flat door design, it is convenient to move, and it is quick to assemble.





Aisle



Modular design

Adopting modular design concept, each unit can be installed and disassembled independently, and can be closely connected with adjacent units, which is convenient for disassembly and assembly; at the same time, it is also suitable for maintenance and management of other equipment on the channel.

Good sealing

All unit modules in the hot and cold aisle system are connected precisely, and the parts are sealed with good sealing tops or sponge strips, which not only maintains the aesthetics, but also prevents the leakage of cold air in the cold aisle.

Light transmission

The system is composed of toughened glass with strong light transmittance.

Aisle Door

Access doors are divided into Revolving sliding door and aluminum sliding doors.

Revolving sliding door

- The door body is made of high-quality cold-rolled steel plate and equipped with 8mm-thick sightseeing tempered glass.
- The internal situation can be directly observed. The joints of the components have been sealed with sealing strips

Aluminum sliding door

- Support ID/IC access control card reader, support firefighting linkage to ensure the safety of the equipment.
- The aluminum sliding door has automatic and manual sliding doors. The door frame is made of high-quality aluminum alloy frame and equipped with 8mm thick panoramic sightseeing tempered glass.

Skylight

- [•] Skylights are divided into fixed skylights and movable skylights.
- Skylight is equipped with 5mm-thick tempered glass for daylighting, The opening or closing signal is controlled and managed by electromagnetic means, and it supports the linkage of the fire fighting system (a control box is additionally provided).
- [•] Skylight adopts a modular design and ensure the effect of cold and heat isolation. Movable skylight has an opening angle of 90°, and is equipped with a buffer limiter for noise reduction and positioning.

Base

- The cabinet base is made of 2.0mm thick cold-rolled steel plate by bending and welding, and the load-bearing capacity is more than 1500KG.
- Modular structure, modular assembly according to the width of the cabinet.
- The bottom of the base is equipped with adjustable casters. The base can be connected with the ground with a fixed part.
- The base and cabinet can be fixed at 4 points to increase overall stability.











旋转推拉门



铝合金平移门











Power Supply and distribution system

Modular UPS



The modular UPS solution can be flexibly configured with 80-300kVA, according to the customer's requirements. The module adopts advanced high-frequency switching technology, fully digital DSP control technology and the world's leading active PFC and LLC topologies to achieve high input power factor, accurate output current sharing performance, and reliable monitoring and management system. provides safe, reliable and pure AC power.

Features

- Modular design for easy expansion
- Output power factor Output PF=1(KVA=KW)
- N+1 or N+R parallel redundant application design to increase system flexibility, stability and safety
- Modular design is applied to power supply modules, STS modules and batteries. The modules are easy to update and maintain, which can reduce maintenance costs.
- Adjustable charging current, the maximum charging current of each module can reach 8A
- 10" touch LCD screen + graphic design, the display is more intuitive and clear

	module	Specificaiton	Size(D*W*H mm)	Weight (kg)
	SUB20K	3P/3P 20KVA/20K	W 650*440*132(3U)	34
	SUB30K	3P/3P 30KVA/30KW	V 650*440*132(3U)	34.5

Specification

Туре	CN-UM80-120K	CN-UM140-210K	CN-UM200-300K		
Cabinet Capacity	80KW/120KW	140KW/210KW	200KW/300KW		
Battery	External battery pack	External battery pack	External battery pack		
Power module capacity	SUB20K · 20KVA/20KW SUB30K: 30KVA/30F				
Number of installable mo	odules 4	7	10		
Input					
Rated voltage	380V.	AC/400VAC/415VAC(3-)	phase 5-wire)		
Voltage range	305~478V	AC 100%load; 208V~	304VAC < 70%load		
Rated frequency		50/60Hz(Automatic se	election)		
Frequency Range		40Hz~70Hz			
Input power factor	> 0.9	9 (100% load); > 0.98	(50%oad)		
Current harmonic distortion (TH	Di)	<3%(100%load)			
Output					
Rated voltage	380V	AC/400VAC/415VAC(3-	-phase 5-wire)		
Voltage stability (steady	state) $\leq \pm 1\%$ typical value ((balanced load); $\leq \pm 2\%$ typical	al value (unbalanced load)		
Voltage stability (transie	nt)	$\leq \pm 5\%$ standard val	ue		
Rated frequency		50/60Hz			
Frequency range (synchroniza	tion range)	46Hz~54Hz或56Hz~	64Hz		
Overload capacity	60min at 110%; 10r	nin at 125%; 60s at 150%; 2	00ms at 150%		
Harmonic distortion	≤2%TH	ID (linear load); ≤4%THI	O (non-linear load)		
Efficiency	>94.5% (50% load)				
Battery/Charge					
Rated voltage	+/-216V(12Vx36 Cell)				
Maximum voltage	+/-240V(12Vx40 Cell)				
Lowest voltage	+/-192V(12Vx32 Cell)				
Float voltage		2.25V/Cell			
Fast charge voltage	2.35V/Cell				
Temperature compensati	on	Yes			
Maximum charging curre	ent	8A			
Physical properties					
Cabinet size (W* D* H)mm	600*1200*2000	600*1200*2000	600*1200*2000		
Number of slots	4	7	10		
Applications					
Operating temperature		0∼40°C			
Relative humidity	$0 \sim 95\%$ non-condensing				
Altitude <1000	m (more than 1000m, the output power will decrease by 1% for every increase of 100m), please refer to IEC				
IP protection level	IP20				
Control management	C (₩' 1 ⊖ 2000	2002 XID XI: + 12000 XI			
RS-232/USB	Support Windows® 2000/2003/XP/Vista/2008, Windows®7, Linux, MAC				
SNMP(Optional)	Power management supports SNMP management and network manage				
Safety standard	IEC/EN 60050 1 IEC/EN 62040 1				
Safety standard	IEC/EIN 00930-1; IEC/EIN 02040-1				
Electromagnetic regulation	ons IEC/EN 62040-2 Category C3				



62040-3

ment

Power Supply and Distribution system



According to the applying requirements of small and medium data centers and large IDC computer rooms, Coolnet has launched valve-regulated lead-acid batteries. In response to the requirements of different data room and UPS applications, it can realize the optimal configuration of the system from the perspectives of comprehensive technical indicators, cost performance, and compatibility. it has better rate characteristics and better quality assurance than batteries of the same type in the industry, providing the best configuration solutions for the different backup application requirements of the data room and UPS system.



Product Features

Adopt maintenance-free and acid-free batteries, safe and reliable;

The battery adopts the optimized ratio of Pb-Ca-Sn alloy grid design, which can adapt to various floating charging applications;

The design life is up to 12 years. The optimized oxygen circulation channel design and electrolyte ratio can effectively reduce the risk of thermal runaway from long-term use of the battery while ensuring the battery life. The specific active material formula takes into account the specific energy and specific power requirements of the battery.

Comply with UL94-V0 flame-retardant requirements, effectively guarantee the safety of customer systems, and more secure to use.

Product Specification

Battery model	Rated vo	ltage E10(Ah)	Bat	tery size (I	L*W*H*TI	H)	Weight (Kg)	Internal resistance	Terminal options
CN-BA12-40Z	12	40	198	166	169	169	12.4	8	F11(M6)
CN-BA12-65Z	12	65	350	167	182	182	20.0	7	F11(M6)
CN-BA12-1002	Z 12	100	328	172	215	220	29.0	5.5	F12(M8)
CN-BA12-1202	Z 12	120	407	177	225	225	34.0	4.5	F12(M8)
CN-BA12-1502	Z 12	150	483	170	241	241	43.7	4.4	F12(M8)
CN-BA12-2002	Z 12	200	522	240	219	224	59.0	4	F10(M8)
CN-BA12-2402	Z 12	240	522	240	219	224	67.5	3.6	F10(M8)

Performance parameter

Desigh life	12 years (SBA series) / 15 years (SBH series)
Working temperature	⁻ 20°C ~ 55°C
Recommended operating temperature	Charge: 0°C~35°C; Discharge: -20°C~55°C; Storage: -15°C~
Influence of temperature on capacity	50°C103% C10 @40°C; 100% C10 @25°C; 86% C10 @ 0 °C
Float voltage	13.6V - 13.8V;Suggested value13.7V
Equalizing charge voltage	14.1V-14.4V; Suggested value 14.1V

Float charging temperature compensation coefficien-	t21mV/ °C
Temperature compensation coefficient for cyclic use-	30mV/ °C
Recommended maximum charge current 0.250	CA (SBA series) /0.3CA (SBH series)
Self-discharge less t	han 3% (20°C)

Distribution System

Centralized

For small data centers, the precision power distribution cabinet can be integrated with the power distribution cabinet to supply power to each cabinet in all modules. For large data centers, the power supply and power distribution cabinets are centrally configured, and each micro-module is equipped with a separate precision power distribution cabinet for power supply.

Distributed: UPS + power distribution integrated solution

The UPS+distribution integrated solution is mainly used in modular centers. It deploys power and power distribution inside the micro-modules of each data center, and integrates power, batteries and corresponding power distribution in a single cabinet. For long-term backup power requirements, the battery can be independent into a cabinet.

Distributed: UPS, power distribution independent solution

UPS and power distribution independent solutions are mainly used in modular centers, where power and power distribution are separately deployed in the micro-modules of each data center. The power supply and power distribution are configured independently in different cabinets, which can support micro-modules with high power density requirements in the cabinet.



Precision power distribution cabinet









Cooling System

Cooling system overview

Our company has a strong air-conditioning R&D and production team, and independently develops products such as precision cooling units, frequency conversion in-row air conditioners, chilled water in-row air conditioners and other air conditioners suitable for modular data centers. Precision Cooling Unit (PCU)



The Precision cooling unit (PCU) is a product independently developed by our company, using environmentally friendly refrigerants R134a and R410A.

Precision Cooling Unit (PCU) In-row Air Conditioners

Technical Features

- precision cooling unit (PCU) is equipped with a backup. If a single air conditioner fails, it can automatically start the backup air conditioner;
- Flexible installation, reliable performance and long service life;
- Dynamic cooling to adapt to the complex and changeable load of the data center;
- Equipped with EC fan, redundant design, the air volume is automatically adjusted according to load changes;
- Arrange close to the server cabinet, close to the heat source, and match the airflow characteristics of the cabinet: cold air flows in from the front of the cabinet, and hot air flows out from the back of the cold air. The design is close to the heat source, and the cooling efficiency is higher;
- The In-Row air conditioner and the server cabinet form a cold aisle enclosed modular data center to avoid ineffective cold.
- The hot air flows and exchanges heat, which has obvious energy-saving effects;
- Key components are set with backup and have interlocking function;
- Configure multiple temperature and humidity sensors to detect the temperature and humidity of the closed channel in the module in real time, and adjust the cooling output according to actual needs;
 End of the line is a sense of the line is a
- Expert fault diagnosis, automatically shield faulty components, and output alarm signals;
- Powerful control and communication functions, including energy efficiency management, energy efficiency management, temperature and humidity sensor signal sharing and other functions.

2 Inverter in-row air conditioner

The inverter in-row air conditioner is tailor-made for the cooling requirements of highdensity cabinets, solves the user's local hot spots. The frequency conversion in-row air conditioner adopts advanced frequency conversion technology and uses the mainstream environmentally friendly refrigerant R410A. The output cooling capacity is adjusted in real time according to the change of the detected load, to avoid frequent start and stop, and to ensure the temperature of the computer room environment. Compared with fixed frequency air conditioners, the annual energy saving rate of variable frequency in-row air conditioners can reach 29%.

High Energy-saving and Efficiency

Mature DC inverter air conditioning system solutions, reasonable matching of compressors, fans, heat exchangers, electronic expansion valves and other components allow the unit to have a high energy efficiency ratio.

Quick response

Close to the heat source, real-time monitoring of thermal load changes, and quickly adjust the refrigeration output to adapt to the load demand.

Excellent control system

Accurate, safe, and energy-saving frequency conversion control system ensures the accuracy and stability of the target environment temperature and humidity while achieving the best energy-saving purpose.

Powerful controller

The market-leading self-developed control system has rapid and smooth response and meets most of the needs of users. **Perfect operation management technology** 7-inch TFT true color touch screen, friendly man-machine interface, convenient operation; support U disk, convenient for near-end maintenance, support Ethernet interface, convenient for remote monitoring and maintenance; powerful group control function, four-group control mode to adapt to different load conditions; Modular design, flexible system configuration, convenient function expansion; communication interface adopts RJ45 terminals, which is convenient for field wiring.

3 Chilled water in-row air conditioner

Chilled water type in-row precision air conditioners, which are designed in strict accordance with the "Unit Air Conditioner for Computer and Data Room" and comply with the national "Data Center Design Specification" Standard. Applicable to all large and medium-sized computer rooms, data centers, communication centers, etc.



Monitoring system

Light configuration, Strong access, High reliability Making the data center safer

Centralized monitoring & real-time alarm Provide operation guarantee for the safety of the power environment of the data center





Centralized monitoring Networking of multiple computer rooms, centralized access to power, environment, cooling, security and other equipment, unifi real-time monitoring;





storms;

....







The monitoring system has the characteristics of light configuration, strong access, and high reliability. It can centrally manage all power, environment, and cooling unit in data center, integrate access control, video and other security systems, Meet the needs of networked monitoring and management of multiple computer rooms, allowing data center operation and maintenance to control the operation safety of the computer room in real time.



Remote access

Btqy ugtu"cpf 'CRRu"o cng"kv"eqpxgpkgpv"

vko g"htqo "cp{ " mecvkqp"cpf " mctp" cdqw"

hqt"wugtu"vq"ceeguu"yj g"u{uvgo "cv"cp{"

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Recommended Plan

Plan 1

R8 IDC12D2T8R3K

IT Rack Quar	ntity 8
Power of Each	n Rack 3kW
UPS	60kVA
UPS module	30kVA*2
PDU	Integrated power distribution cabinet
Precision In-ro	w AC 2*30kw
Monitoring	1Set
Battery	1Group 40pcs100Ah, backup:1h
Module Size	3.6m*3.6m
Total Cabinet	12



Plan 2

R8 IDC14D2T8R3K

IT Rack Quar	ntity 8
Power of Each	n Rack 3kW
UPS	60kVA
UPS Module	30kVA*2
PDU	Integrated power distribution cabinet
Precision In-ro	w AC 2*30kw
Monitoring	1 Set
Battery 10	Group40PCS100Ah; Backup time 1h
Module Size	4.2m*3.6m
Total Cabinet	14



Plan 3

R12 IDC18D4T12R5K

IT Rack Qua	ntity	12
Power of Eac	h Rack	5kW
UPS		90kVA
UPS power m	odule	30kVA*3
PDU	Ir	tegrated power distribution c
Precision In-r	AC	4*20kw
Monitoring		1Set
Battery 10	Group 32	2pcs200Ah , backup time0.5h
Module Size		5.4m*3.6m
Total Cabine	ţ	18

Plan 4

R12 IDC20D4T12R5K

IT Rack Quantity	12
Power of Rack	5kW
UPS	90kVA
UPS module	30kVA*3
PDU Int	egrated power distribution cabinet
Precision In-row A	AC 4*20kw
Monitoring	1Set
Battery 1Gro	up 32pcs200Ah ;backup time 0.5h
Module Size	6m*3.6m
Total Cabinet	20







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Recommended Plan

Plan 5

R18 IDC24D4T18R5K

IT Rack Quar	ntity 18	
	5kW	
UPS	120kVA	
UPS module	30kVA*4	(
PDU Inpu	t:200A/3P/2pcs ; output:32A/1	P/42pcs
Precision In-ro	w AC 4*30kw	
Monitoring	1 Set	
_	Mains Distribution Cabinet	
Battery 2G	roup 32pcs150Ah ; backup tir	ne 0.5h
Module Size	7.2m*3.6m	
Total Cabinet	24	



Plan 6

R22 IDC30D4T22R5K



Plan 7

R30 IDC40D6T30R5K

IT Rack Quar	ntity 30	
	5kW	
UPS	180kVA	
UPS module	30kVA*6	Skyl
PDU Inp	ut320A/3P/2pcs; Output32A/	1P/72pcs
120	6*30kw	
Monitoring	1set	
	Mains Distribution Cabine	t
Battery	2Group40pcs200AH; back	cup time 0
Wiring Cabine	t 2 Sets 800mm Wide	
Module Size	12.2m*3.6m	
Total Cabinet	40	

Plan 8

R36 IDC46D6T36R5K

IT Rack Q	uantity 36	UPS
	5kW	
UPS	210kVA	Fixed
UPS modu	e 30kVA*7	Skylig
PDU I	nput400A/3P/2pcs; Output32	A/1P/84pc
	6*40kw	PDU
Monitorin	g 1Set	Cab
	Mains Distribution Cal	oinet
Battery	2Group40pcs240AH; backup	time 0.5h
Wiring Cal	oinet 2set 800mm Wide	
Module Siz	te 14m*3.6m	E
Total Cabin	net 46	F















Coolnet Data Center Product Solution

Smart Cabinet Data Center

Product Description

Micro Data Center

With the advent of the era of big data, industries such as cloud computing, mobile Internet, and the Internet of Things are booming. The scale of data centers continues to increase and presents a trend of polarized development. There are more and more micro data centers at the end. Due to the differences in geography, environment, and architecture, the scattered micro data centers have been facing the dilemma of difficult unified planning, construction, and operation and maintenance management, which has brought great challenges to the rapid launch of services.



Product Introduction

Relying on its rich experience and technology accumulation in the data center industry, Coolnet has launched a cabinet-level micro data center solution, turning the data center infrastructure into a product as a whole, and deeply integrating UPS power supply and distribution, cooling, cabinets, wiring, monitoring and fire protection. It provides safe, reliable and efficient operation support for IT equipment, realizes one-stop deployment and unified operation and maintenance management of data room, and creates a cabinet-based micro data center - CADC (Cabinet As a Data Center).

Coolnet micro data center solutions have a variety of specifications and models, which can fully cover various application scenarios.

Applications

Business outlets (Industry like: telecommunications, finance, energy, radio and television, retail...) Small enterprises Branches and networks of large enterprises, government, education, Healthcare .Edge Data Center

Values

Easier

To integrate the infrastructure through the idea of productization and modularization, it is only necessary to select the appropriate product specifications according to the space capacity requirements of the IT equipment, and there is no need to calculate and design the subsystems, which greatly simplifies the design process.

Saving more tin

The productized design enables the IC series rack-type smart data center to be installed and delivered on site within one day, which is more than 2 times faster than the traditional construction mode.

Safer

The in-depth integration of integrated products and the factory pre-validation test are more standardized, safe and reliable than on-site construction; The fully sealed design eliminates the harm of external air dust and corrosive gases to IT equipment;

The dynamic environment monitoring system monitors the infrastructure in an all-round way, alerts abnormal conditions in time, and is safe and secure. Lower cost



of ownership (TCO).

Better manageme

One-stop after-sales service can deal with various equipment failures in time, saving time and worry; Equipped with a dynamic monitoring system as standard, it can monitor and manage locally and remotely, and it can also access the upper management platform for unified supervision by multiple outlets, and support diversified choices.



The minimum floor area is only 0.7 square meters, the closed design, strong environmental adaptability, no need for decoration, flooring and other supporting projects, effectively reducing CAPEX, fully enclosed refrigeration improves the energy efficiency of the whole machine, reduces OPEX, and significantly reduces the total cost

Rack Data Center



Advantages

Cold and hot aisle temperature field

Integration

In-depth integration of data center infrastructure products, including UPS, power distribution, refrigeration, cabinets, monitoring, fire protection and other subsystems, through the monitoring system to achieve overall management of all subsystems, creating an integrated product, simplifying design and procurement and the construction process.

High Availability

The reliable UPS power supply and distribution system can continuously escort IT equipment, and can customize the high-reliability system to meet the availability requirements of different users. A rack-type precision cooling system is configured to ensure that IT equipment operates in a stable and reasonable temperature and humidity environment. It adopts a fully sealed design and has low dependence on the environment. It can be used in a variety of environments, and it is no longer necessary to set up a separate computer room.

Equipped with emergency ventilation device, in the event of air conditioning failure, it can turn on natural ventilation and heat dissipation, providing time for users to back up; it can also be linked with the fire protection system to allow the fire extinguishing gas to enter the cabinet smoothly.

The dynamic monitoring system monitors the working status of the equipment in real time, does not miss any abnormal conditions, quickly locates faults, and eliminates hidden dangers.

Save TCO

Area saving: the integrated design saves more than 40% of the floor space compared to the traditional construction mode; Saving supporting investment: fully enclosed design, can be installed in various environments (computer room, utility room, office, etc.), no need to invest in the construction of computer room and supporting facilities;

Save construction time: Integrated products, on-site installation time can be completed within one day, when large-scale deployment, the construction period is greatly shortened;

High efficiency and energy saving: high frequency UPS, the whole machine efficiency is up to 92%; cabinet-level refrigeration + fully enclosed cold and hot aisle refrigeration can save energy by more than 30% compared with traditional refrigeration methods, and the PUE of the whole machine can be lower than 1.45.

Simplify operations

The dynamic environment monitoring system of comprehensive product operation data, provides alarms and various reports, and realizes unattended, remote operation and maintenance; it can also be integrated into the upper management system for centralized management;

The cabinet-type structure with transport casters makes the data center moveable and convenient;

One-stop after-sales service, one phone call to solve all problems.

www.coolnetpower.com.

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Se	eries			Conventiona	l Air Conditioning Vers	ion	
System	Index	ICS103C	ICS206C	ICS310C	ICS520C	ICS520B	
	UPSCapacity	3KVA	6KVA	10KVA	20KVA	20KVA+20KVA	
	Power factor	0.8	0.8	0.8	0.9	0.9	
Power supply	Total power input	220V/40A	220V/63A	220V/125A	380V/125A	380V/125A	
and distribution	Height	4U	4U	4U	6U	9U	
	Lightning protection	n		C class			
	Others			ATSModle (opt	tional)		
	Recommended num of IT cabinets	ber 1	2	3	5	5	
	Available space	28U	33U+42U	29U+2*42U	30U+4*42U	21U+4*42U	
	Number of PDUs	1*8bit10A	1*12b	it10A	1*(12bit10A+4bit16A)	2*(12bit10A+4bit16A)	
Cabinet	Closed aisle			Fully enclosed co	old and hot aisle		
I	Emergency ventilation	tion Fan-type emergency ventilation system, support maximum 5KW heat dissipation, automatic start and sto					
	IT space expansion	on Standard IT cabinet with 42U usable space (optional)					
	Туре	Rack mount	In row	In row	In row	In row	
Deficientien	Cooling Capacity	3.5	7.5	12.5	2*12.5	3*12.5	
Reirigiration	Sensible heat ratio	1					
	System			Compression sys	stem +EC fan		
	Monitoring volume	UPS、Power dis	tribution、AC、Wa	ter leakage、Tempe	erature & Humidity、Sr	noke、Door sensor	
Monitoring	Function	Data collection and	storage, alarm mana light alarm (option	ngement, energy constant), SMS alarm (opt	sumption analysis, remo	te access, sound and	
	Display			10-inch Touch	n screen		
Fire	Heptafluoropropane		1UF	Rack-mounted gas fir	re extinguishing system	(optional)	
	Standard number of batteries	8	16	16	20	2*20	
	Backup power for 15 minutes	2UBattery Pack	3UBattery Pack	6UBattery Pack	-	-	
Battery	Backup power	-	-	-	External 20 100A/12V	7 _	
	Backup power	-	-	-	-	External 2*20 100A/12	
	for 90 minutes Longer time delay	Can be replaced wi	th high-capacity bat	teries or increase the	number of battery pack	s (not more than 4)	
Size	W*D*H-mm	600*1200*2000	1500*1200*2000	2100*1200*2000	3600*1200*2000	3900*1200*2000	
	Environment tempe	rature		0~45°C			
Environment	Environment h	umidity]	Relative humidity 0-	95%, no condensation		
	Altitude		<1000m	, The excess part is a	derated according to rel	evant standards	



Cooling system

With more than ten years of experience in the field of data center refrigeration, Coolent has developed SCI series air conditioners according to the application characteristics of smart cabinets. It adopts 3 structural forms, and users can choose according to their needs and different application occasions: rack-mounted air conditioners. It can be used in the cabinet to directly cool the server; the in-row air conditioner is used in combination with the cabinet; the integrated air conditioner integrates the outdoor unit, which can be flexibly arranged.

Energy efficient

The air conditioner and the server cabinet form an enclosed space. The air supply distance of the air conditioner is short, and it is directly delivered to the server air inlet, reducing the loss of airflow and cooling capacity, high efficiency and energy saving, and reducing the PUE value of the computer room. The EC fan is used, which is suitable for independent local high-density heat dissipation, adjusts the air volume output in time, and keeps the temperature and humidity in the • confined space constant.

High Reliable

- driers, etc.;
- insulation, fireproof insulation cotton;
- Full frontal maintenance to reduce maintenance difficulty;

In-row Air Conditioners

Rack Mounting AC



CRK0007



CRK0003

Туре	CRK0003	CRK0007
Significant cooling capacity (KW)	3.5	3.5
Air volume (m^3/h)	650	650
Energy efficiency rat	10 >	3.0
Temperature Contro	- ! ±:	l°C
Humidity Control		/
Unit size(D*W*H)	800*442*264mm	800*442*352mm
Indoor installation method	d Standard 19" rack mount	Standard 19-inch rack one-piece installation
Protective function	With compressor protection, fan alarm, te	emperature and
	humidity sensor failure and other protecti	ion functions



Туре	CRA008 CRA013			
Significant cooling	7.5	12.5		
Air Volume (m^3/h)	1800	2800		
Energy efficiency ratio	≥3	.0		
Temperature control	±]	°C		
Humidity control		/		
Unit size(D*W*H)	300*120	00*2000mm		
Indoor installation method	Side	vertical installation		
Protective function	With compressor protection, fan al- humidity sensor failure alarm and o	arm, temperature and ther functions.		



Adopt high-quality components that have been rigorously tested, such as compressors, fans, expansion valves, filter • Steel structure frame, high-quality steel panel, and the interior of the panel is affixed with sound insulation, heat



Power Distribution and Supply System

The power supply and distribution system of the smart cabinet is mainly composed of UPS, battery, power distribution unit and PDU, etc. All products are integrated and installed inside the cabinet, the overall style is consistent, neat and beautiful.

System topology

The standard topology of the power supply and distribution system of the intelligent cabinet, and the system architecture meets the C/B class

computer room standards specified in GB 50174-2017.



UPS

Features

The UPS products with rack-mounted design can be directly installed on a 19-inch standard rack, and the appearance style is consistent with the cabinet.

Wide range of input voltage and frequency, able to adapt to various complex power usage environments Compatible generator access







10KVA



20KVA

Parameters

Tvn	e	SUA1103L	SUA1106L	SUA1110L	SUA3320L		
Can	acity	3KVA/24KW	6KVA/4 8KW	10KVA/8KW	20KVA/18KW		
Input	uoity	51(11)2.11(1)		TORCTROIL	2011 110 1011 11		
Power	Specifications		L+N+PE		3L+N+PE		
10000	50%Load		110-300VAC		190-520 VAC		
Voltage range	100%Load	160-280VAC	176-300	VAC	305-478 VAC		
Frague	nov Panga	100-200 VAC	170-500	/6Hz - 5/ Hz	505-470 VAC		
Input por	wer factor	4/11Z ** 33 11Z	100% under 1	and > 0.00			
Output	wei laetoi		10070 under 1	0.99			
Output	t voltago	2093//	2001/22001/2400/ (Simple	mbasa)	400V (Three phase)		
Valta	t vonage	208 V/2	220 V/230 V/240 V (Single-	-pnase)	400 v (Three-phase)		
Voltag	ge accuracy		± 1%	. 0.111			
Frequei	ncy accuracy	± 0.25Hz		± 0.1 Hz			
		105%~110%:10min;	100%~110%:30min;		100%~110%:10min;		
Overload	Mains mode	110%-130%: 1min;	110%~130%:5min;		>130%:150%:11111;		
capacity		>130%: 3s	>130% :After 10s of over	load,	transfer to bypass mode		
Current	peak ratio						
Har	monic	\leq 3 % (Linear load) \leq 5 % (non-linear load)					
Switch	ning time	Oms					
Output p	ower factor	0.8 0.9					
Way	veform		Pure s	ine wave			
Inverte	er mode		IGB	Т			
Efficiency	ACmode	> 90%	> 92%	> 93%	> 91%		
Battery							
Standard	d-V	8*12V	16~20*	*12V	18~20*12V		
Recharg	ing current-A		1A, 2A, 4A, 6A optional		4A		
Show de	escription						
LCI)	Visually display the load si etc. through images. The o voltage can be adjusted the output voltage can be adjust	ze, battery capacity, mains utput voltage can be adjus rough the on-screen displa ted through the on-screen of	mode, battery mode, bypa ted through the on-screen y menu when the frequen display menu when the fre	ass mode, fault indication, display menu, the output icy bypass is enabled, the equency bypass is enabled,		
Physical properti	ies	and the frequency bypass ca	an be enabled				
Size (DxWx	H)mm	410 x 438 x 88	530 x 438 x 88	580 x 438 x 133	668 x 438 x 266		
Weight	(KG)	14.2	15	18	45		
Envrironment co	onditions						
Operating te	emperature	0-40°C					
Operating h	umidity	20-90 % (no condensation)					
Operating a	ltitude		<1000m (The excess part is	derated by 1% every time	it exceeds 100m)		
Operating no	oise	<50dB	<55dB	<58dB	<65dB		
Management							
Smart RS-232	or USB	Spport Window	vsXP/Vista/2008、Window	ws® 7/8、Linux、Unix ar	nd MAC		
Optional	I SNMP	S	Supports power managemen	nt by SNMP manager and	web browser		



Power Distribution and Supply System

Battery

According to the application requirements of small and medium-sized data centers and large IDC computer rooms, Coolnet has launched SBA series valve-regulated lead-acid batteries. SBA series lead-acid batteries are similar but different according to different application requirements of different data computer rooms and UPS applications. With the advanced design technology concept and advanced automated production process, the product design, performance requirements, reliability and process control are closer to the actual application of customers, and the optimal configuration of the system is realized from the perspectives of comprehensive technical indicators, cost performance and compatibility. Compared with the same type of batteries in the industry, Yimikang SBA series VRLA batteries have better rate characteristics and better quality assurance, and provide the best configuration solutions for different backup application requirements of data rooms and UPS systems.



Product Features

- Coolnet SBA series sealed valve-regulated lead-acid batteries are maintenance-free and acid-spill-free batteries, safe and reliable;
- The battery adopts an optimized ratio of Pb-Ca-Sn alloy grid design, which can adapt to floating charging applications in various
- working conditions;
- The design life is up to 12 years, and the optimized oxygen circulation channel design and electrolyte ratio can effectively
- ^a reduce the thermal runaway risk of long-term use of the battery while ensuring the battery life; the specific active material formula takes into account the specific energy and specific power requirements of the battery;
- . Comply with UL94-V0 flame retardant requirements, effectively ensure the safety of customers' systems, and the use is more secure.

Parameters

Designed life	12years(SBA)
Working temperature	-20°C ~55°C
Recommended Working Temperature	Charge: 0°C ~35°C; Discharge: -20°C ~55°C; Stand for storage: -15°C ~50°C
The effect of temperature on capacity	103%Clo @40°C; 100% Clo @25°C; 86% Clo @0 °C
Float voltage	13.6V - 13.8V; suggest value 13.7V
Equalizing voltage	14.1V-14.4V; suggest value14.1V
roat charge temperature	-21mV/ °C
Cyclic use of temperature	-30mV/ °C
Recommended maximum charge curre	xt0.25CA (SBA) /0.3CA(SBH)
Self-discharge	<3% (20°C)

Battery Specifications

Туре	Rated volta (V)	ge C10 (Ah)]	Battery Size (L*W*H*TH)				Internal resistance $(m\Omega)$	Terminal Options
CN-BA12-40Z	12	40	198	166	169	169	12.4	8	F11(M6)
CN-BA12-65Z	12	65	350	167	182	182	20	7	F11(M6)
CN-BA12-100Z	12	100	328	172	215	220	29	5.5	F12(M8)
CN-BA12-120Z	12	120	407	177	225	225	34	4.5	F12(M8)
CN-BA12-150Z	12	150	483	170	241	241	43.7	4.4	F12(M8)
CN-BA12-200Z	12	200	522	240	219	224	59	4	F10(M8)
CN-BA12-240Z	12	240	522	240	219	224	67.5	3.6	F10(M8)

Power distribution unit

- Adopt rack-type design, including mains power distribution, UPS, air conditioning and load power distribution, manual maintenance bypass, convenient on-site maintenance;
- Detect the input power of the main circuit, including important parameters such as voltage, current, and active power, and provide Modbus communication protocol to access the upper-layer monitoring system to realize energy consumption statistics;
- Optional ATS dual power input module and N+1, 2N and other high-reliability power supply and distribution modules;
- Main switching devices are all of Schneider brand, with reliable quality;
- Contains C-level lightning protection module to improve safety.

Distribution Cabinet Specifications

Туре	SPG03R	SPG06R	SPG10R	SPG20R	SPG20R-X		
Rated input voltage	220V	220V	220V	38	30V		
Rated input current	40A	63A	125A	12	25A		
Power frequency		50Hz					
Load output branch	5*16A (IT) +2*10	5*16A (IT) +2*10A (Monitoring + Emergency ventilation) (Monitoring emergency + 15*32A (IT) +2*10A (Monitoring + emergency + (Monitoring + emergency					
System structure		Stand-alone system ventilation) Parallel system					
Monitoring function		Main input power detection (voltage, current, frequency, power, etc.)					
Surge protection		Class C lightning arrester					
Wiring			Rear terminal str	ip			
Installation method		Rack mount					
Installation height	4U 6U 9U						
Display		NO					
Communication		RS48	5 interface, modbus-R1	U communication proto	col		







Cabinet system

- EC series cabinets adopt standard 100% profile frame welded as a whole, with high strength, stable and reliable, static load capacity of 1500kg;
- Fully enclosed design of cold and hot aisles, dustproof and noise reduction, high efficiency and energy saving;
- The front door of the cabinet adopts a double-layer vacuum insulated glass door to prevent condensation.
- At the same time, it supports upper and lower cable entry and pipe routing to meet the needs of different installation scenarios;



Emergency ventilation system

- Standard emergency channel system, through the monitoring system to automatically control the fan start and stop, safe and intelligent;
- In the event of air conditioner failure, it can ensure natural heat dissipation and prolong the running time in the event of air conditioner failure;
- It is linked with the fire protection system to keep the airflow inside and outside the cabinet circulating when a fire occurs, so that the fire extinguishing gas can smoothly enter the cabinet.

Rich cabinet accessories





Cable management rack Tool-free blind plate Laminate

Dual channel wireway L-rail

management functions.

System structure

Remote unified monitoring platform



System Features

- It adopts a highly integrated monitoring system, adopts an integrated collector, and a 10-inch touch screen is installed on the front of the cabinet.
- Control the start-up of the emergency ventilation system, set the operating parameters of the air-conditioning system and switch on and off the machine.
- Provide comprehensive alarm data, operating parameters, energy consumption analysis and linkage functions to meet daily unattended, remote operation and maintenance
- Support multi-site centralized management, customized operation and maintenance management platform, what you get is what you need.
- The networked monitoring platform provides unified monitoring and management, and provides monitoring and management of GIS electronic map interface.
- Provide android version APP software, know the status of the computer room anytime, anywhere, convenient, fast, safe and worry-free.
- Provides standard SNMP northbound interfaces and protocols, which can seamlessly access third-party operation and maintenance management platforms.
- Provides alerts via SMS, WeChat, and email.

Monitoring system

The power environment monitoring system specially developed for integrated cabinet products can comprehensively monitor the power, cooling and environmental parameters in the cabinet. It has local display and remote monitoring capabilities, and provides safe, reliable and intelligent monitoring and

requirements.





Recommended Plan

Plan 1

ICS103CARDMB

Total number of cabinets	1+0
Available space for IT equipm	ent 28U
Power system	220Vac,50Hz,1Ph+N+PE
UPSCapacity	3KVA
Numebr of UPS	1
Supports maximum IT load powe	er 2.4KW
Battery deployment method	Battery Pack
Backup time	15min
Air conditioning cooling capacity	3.5KW
Number of air conditioners	1
Air conditioner installation meth-	od Rack Mounting
Air conditioning air supply method	Front air supply and Back air supply
Dimensions (W*D*H)	600*1200*2000mm

I		
42U		1
41U		Г
40U		Γ
39U		Ε
38U		Е
37U		E
36U		Ľ
35U		E
34U	Court Californi	L
33U	Smart Cabinet	L
32U	1001000	L
31U	ICS103C	L
30U		F
29U		F
28U		F
27U		F
26U		F
25U		F
24U		F
23U	IT load available	F
22U	11 Ioad available	F
210	C	F
200	Space280	⊢
190		F
180		F
1/0		F
1411		F
1411		+
1311	Power distribution	F
1211	unit 4U	F
1111		F
10U		+
9U	3KVA UPS 2U	F
8U		t
7U	Battery pack 2U	F
6U		T
5U	Fixed frequency	F
4U	air conditioner	Г
3U	an conditioner	Г
2U	3.5KW.6U	E
1U	5.512 W 00	Γ
_		_

Plan 2

ICS206CACDMB

Total number of cabinets	2+1
Available space or IT equipment	75U
Power system	220Vac,50Hz,1Ph+N+PE
UPS Capacity	6KVA
Number of UPS	1
consumption battery part	4.8KW
Deployment method	Battery Pack
Backup time	15min
Air conditioning cooling capacity	7.5KW
Number of air conditioners	1
Air conditioner installation metho	d IN-row
Air conditioning air supply method	Air supply from both sides at the front d return air from both sides at the back
Dimensions (W*D*H)	1500*1200*2000mm

		-		r		-
	Power Distribution	F		420		F
ř	Unit 4U	F		4011		F
-	ome to	F		3911		F
U U		+		38U		F
u I	6KVA UPS 2U	F		37U		F
J.		+		36U		F
ī.	Battery pack 3U	E		35U		E
J.				34U		E
1		F		33U		L
1		F		32U		F
4		+		31U		F
Н		F		2011		F
Н	Smart Cabinet	F		290		F
Н	IC\$206C	F		2711		F
Н	1032000	F		26U		F
ī.		F	Eived frequence	25U		F
ī.		F	i ixeu irequeire	24U		F
J		E	air conditioner	23U		E
1		E		22U		E
1	IT Load available	L	In-row	21U	IT Load available	L
1		F		20U		F
4	Space33U	+		19U_	Space 42U	+
Н		F	7.5KW	18U		F
Η		F		1611		F
Н		F		15U		F
		F		14U		F
ī.		F		13U		F
ī.		F		12U		F
J.		F		11U		Γ
1		E		10U		E
		L		9U		L
4		F		8U		F
4		+		7U		+
н		+		6U		+
Н		F		411		F
Н		F		3U		F
d.		F		2U		F
-		L .		- 14		L

Plan 3

ICS310CACDMB



Total number of cabinets

Available space for IT equipment

Power system

UPS Capacity

Number of UPS

Support maximum IT load power consumption ba

Deployment mode

Backup time

Air conditioning cooling capacity

Number of air conditioners

Air conditioner installation method

Air conditioning air supply method

Dimensions (W*D*H)



	3+1
	113U
	220Vac,50Hz,1Ph+N+PE
	10KVA
	1
atter	y 8KW
	Battery pack
	15min
	12.5KW
	1
	In-row
	Air supply from both sides at the front, return air from both sides at the back
	2100*1200*2000mm

Recommended Plan

Plan 4

ICS520CACDMB

420 Power Distribution 400 Unit 6U 380 Unit 6U 380 20KVA UPS 6U 381 20KVA UPS 6U 380 Smart Cabinet 280 20KVA 280 Smart Cabinet 280 20K 281 20K 282 20K 284 20K 284 20K 284 20K 284 20K 284 20K 284 20K 184 110K 184 110K	400 400 400 400 500 500 500 500	Fixed frequen air conditioner In-Row 12.5KW	420 400 400 400 400 580	4:0 - 4:0 - 4:0 - 90 - 380 - 380 - 380 - 380 - 380 - 380 - 380 - 380 - 380 - 380 - 380 - 380 - 380 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 280 - 180 - 180 <	Fixed frequer air conditions In-Row 12.5KW	420 420 420 420 420 420 420 420
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Total number of cabinets	5+2
Available space for IT equipment	198U
Power system	380Vac,50Hz,3Ph+N+PE
UPS capacity	20KVA
Number of UPS	1
Support maximum IT load power consumption battery	18KW
Deployment mode	External battery cabinet
Backup time	40min
Air conditioning cooling capacity	12.5KW
Number of air conditioners	2
Air conditioner installation method	In-Row
Air conditioning air supply method	Air supply from both sides at the front, return air from both sides at the back
Dimensions (W*D*H)	3600*1200*2000mm

Plan 5

ICS520BACDMB



Total number of cabinets
Available space for IT equipment
Power system
UPS capacity
Number of UPS
Support maximum IT load power consumption
Battery deployment method
Backup time
Air conditioning cooling capacity
Number of air conditioners
Air conditioner installation method
Air conditioning air supply method
Dimensions (W*D*H)



5+3
189U
380Vac,50Hz,3Ph+N+PE
20KVA
1+1
18KW
External battery cabinet
90min
12.5KW
2+1
In-Row
Air supply from both sides at the front, return air from both sides at the back
3900*1200*2000mm

