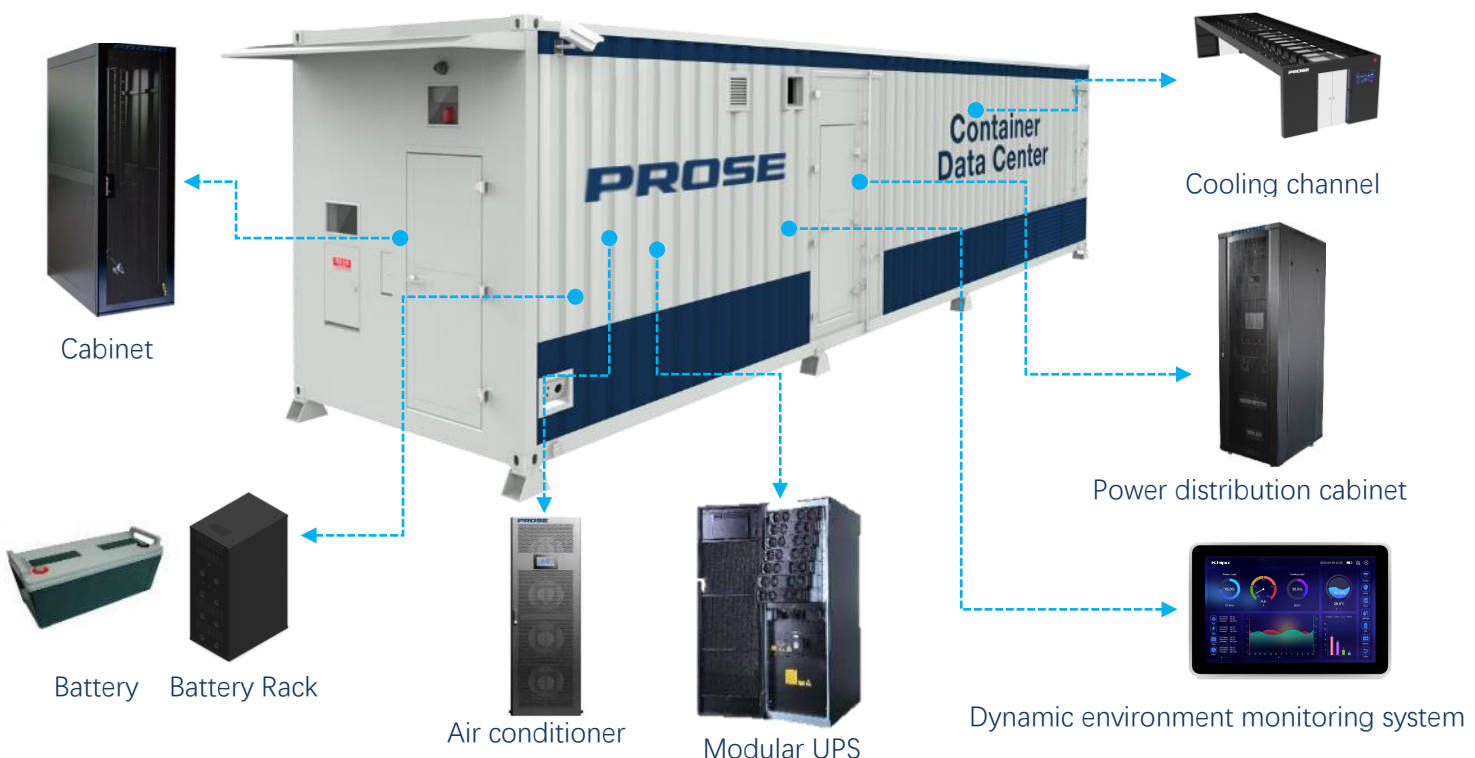## Product Introduction

The container data center solution designed by PROSE includes several functional units such as container box and seal assembly system, power supply and distribution system, IT cabinet system, refrigeration system, monitoring system, and fire protection system. After the container is pre-installed and pre-commissioned in the factory, it is transported to the destination. After the container is installed, the user can deploy the server by himself.

The use of container structure, not only the installation is simple and fast, to ensure that the user's business quickly online, but also to avoid building construction and other problems; The design of the container itself fully meets the outdoor operation conditions, not only with rain prevention, sunscreen, salt spray and other protective measures, to meet the national standard IP55 fire rating, but also fully adopted fire prevention and anti-theft measures.
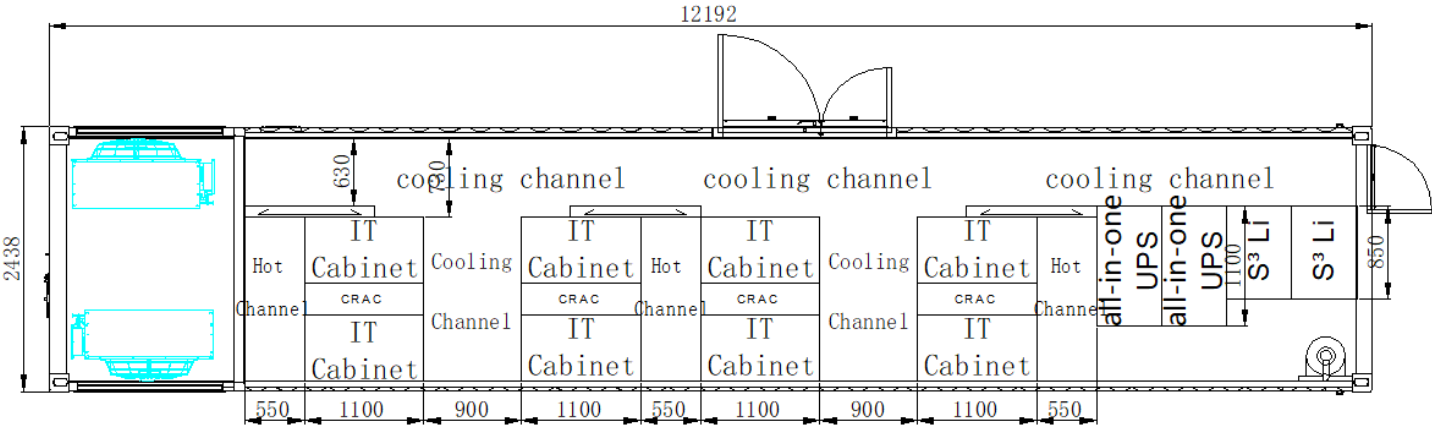
Application

- Emergency response: Container data centers can be quickly deployed in emergency areas to provide temporary data processing and storage capabilities for disaster relief, emergency rescue and recovery work. They can be deployed to disaster areas at short notice and provide temporary computing, communications, and data support.

- Edge computing: Container data centers can be deployed in edge computing environments to process and store data close to where the data is generated. This is useful for iota devices, sensor networks, and edge application scenarios, providing low-latency data processing and fast decision-making capabilities.

- Temporary projects or events: The crated data center can be used to support temporary projects or events, such as outdoor exhibitions, sporting events, music festivals, etc. They can provide temporary computing resources, network connectivity, and data storage for these activities to meet temporary, high-density data needs.

- Remote areas and field applications: In remote areas or field environments, traditional stationary data centers are difficult and expensive to build. The container data center can be used as a mobile solution to provide computing and data support in remote areas, such as mining, oil fields, research bases, etc.

- Temporary capacity expansion and capacity management: Container data centers can be used as temporary capacity expansion solutions. When the capacity of traditional data centers is insufficient, container data centers can be deployed to rapidly increase computing and storage capabilities. They can also be used for capacity management, allowing some workloads to be moved to containerized data centers when maintenance, upgrades, or expansions are required.

Cabinet

Cooling channel

Power distribution cabinet

Battery   Battery Rack

Air conditioner

Modular UPS

Dynamic environment monitoring system

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Container Data Center

Type	Technical parameters
Container System Size(W*D*H)	3000mm*13716mm*3200mm（40 feet）
IP Level	IP55
IT Cabinet Size(W*D*H)	600mm x 1200mm x 2200mm(47U)
IT Cabinet QTY	13 set
PDU	Standard PDU, vertically installed, 32A input, 20 x 10A+4 x 16A output
Integrated UPS	
Dimensions (W*D*H) (mm)	600×1200×2000
Rated voltage	380V
Frequency range	40 ~ 70 Hz
Battery voltage	±192V
Display screen	7 in
UPS power	120KVA
Mains output power distribution module	The air conditioner power supply is 40A/3P MCB*5, the IT cabinet PDU power supply is 50A/1P MCB*10, and the maintenance socket is 16A/1P+NA RCD*1
UPS output power distribution module	The PDU power supply of the IT cabinet is 50A/1P MCB*10, and the other branches (such as fire control, lighting, and new fans) are 10A/1P MCB*7
Lithium Battery Cabinet	
Nominal capacity (kWh)	31.68（11 battery modules）
Cell discharge ratio	4C
Rated output power (discharge) (kW)	110
Communication mode	TCP/IP、RS485
System display mode	Touch screen
PAC Cabinet	
Air Conditioner Capacity	25kw
Air Conditioner Size (W*D*H) (mm)	300×1200×2000
Machine air volume (m³/h)	5000
Energy efficiency ratio (EER)	3.1
Air Conditioner QTY	5
Fire Protection System	Fire alarm/linkage control/gas fire extinguishing controller, emergency stop button, manual/automatic transfer switch, fire sound and light alarm, bleed indicator light, emergency light, escape channel indicator light, safety exit indicator light, smoke detector, temperature detector, solenoid valve, pressure switch, fire sprinkler, fire gas cylinder and fire extinguishing agent (HFC-propane), etc
Dynamic loop monitoring system	Monitoring all-in-one, switch, 10-inch LCD touch screen, multi-loop precision power distribution monitoring system, battery monitoring system, UPS monitoring system, air conditioning monitoring system, environmental monitoring system (temperature and humidity detection, water leakage detection, hydrogen concentration detection), fire monitoring system (smoke detector, temperature detector), access control system (access controller, access card reader, IC Induction card, magnetic lock, exit button, emergency door button, etc.), video surveillance system (including 3pcs gun camera, 4pcs hemispherical camera, NVR hard disk burner, etc.), sound and light alarm device, etc
Cable bridge	The cable tray is divided into strong current cable tray, weak current cable tray and optical fiber trough. The bridge is supported by the top bracket of the equipment. The weak current cable tray is mainly used for the weak current and signal cable routing of fire fighting and monitoring equipment.
Anti-static floor	Install ESD floors in the cold and hot aisles of containers. Place the ESD floor directly on the welded square pipe at the bottom of the container. The gap between the ESD floor and the sides of the container and cabinet is sealed with L-shaped or T-shaped aluminum alloy. The ESD floor is 200mm high, and the bottom is used for air conditioner pipe routing.
System electromagnetic shielding	The whole container adopts the way of strong current and weak current separate wiring to avoid strong current interference to the weak current part; After external cables are connected, the internal physical isolation mode is used to effectively isolate strong and weak electricity.

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Structure layout

12192

2438

630

620

cooling channel   cooling channel   cooling channel

| Hot Channel | IT Cabinet | Cooling Channel | IT Cabinet | Hot Channel | IT Cabinet | Cooling Channel | IT Cabinet | Hot Channel | all-in-one UPS | all-in-one UPS | S³ Li | S³ Li |

CRAC   CRAC   CRAC   CRAC

IT Cabinet   IT Cabinet   IT Cabinet   IT Cabinet

1100

850

550 1100 900 1100 550 1100 900 1100 550

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Cabinet

Frame · Roof plate · Side door · hinge · U Column · Back door · Side rail · PDU mounting board · Cable tie · key · Bottom plate · Front door

Item	Standard Cabinet
Height unit (customizable)	42U
Cabinet Size (mm)	600(W) x 1100(D) x 2000(H)
Weight	About 180kg （Only Rack unit）
Static Load	Up to 2200kg
Color	Black
Structure Composition	Welding framework, cabinet seal design as a whole
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
IP Level	IP2X
Side door	2 pcs
Outlet mode	Top and bottom exits
disposition	2 vertical strippers
Front Door	Sheet mesh door
Rear Door	Sheet mesh door
Safety Standard	RoHS

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PDU

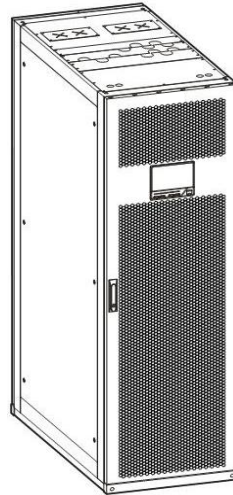| Item	Technical Parameter
Size	(W)45x(D)45x(H)1600mm
Standard	CE, EN55032 & EN55035, EN62368-1
Input	220V，32A，2P+E，50Hz
Output	20*C13+4*C19
Input Line	3*6mm², 3m
Plug	Industrial connector
Working Temperature	0 ~ 45 °C
Color	Black
Protection Class	IP44
Lighting Protection	Yes
Installation Position	The rear sides of the cabinet are mounted vertically
Communication	SNMP

Cooling Channel

Item	Cooling Channel
Channel width	550mm
Number of cabinets	4 set Sever cabinet+2 set AC
Standard	Compliance with EIA-310-E, IEC297-2, DIN41491; PART1, DIN41494; PART7, GB/T3047.2-92 standard; Compatible with ETSI standard
Flip Sunroof	2 set, Transparent ceiling
Fixed PC Skylight	1 set, Sheet PC ceiling
600mm M-type Wire Slot	4 set
Cabinet Rear Baffle	4 pcs
Automatic Sliding Door	1 set，Single automatic door
Power Control Box	1 set
Glass Door	10mm Glass

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Integrated UPS

The integrated UPS is a modular, online uninterruptible power system that consists of a UPS cabinet, power module, bypass module, system control box, and power distribution module.

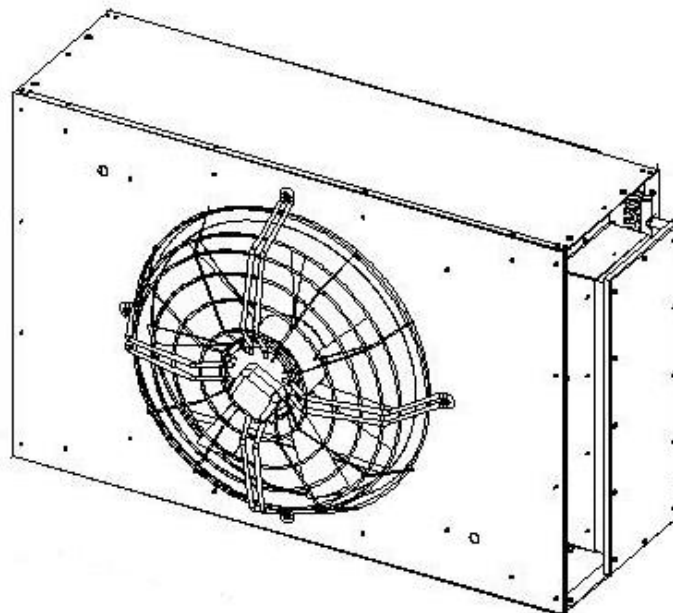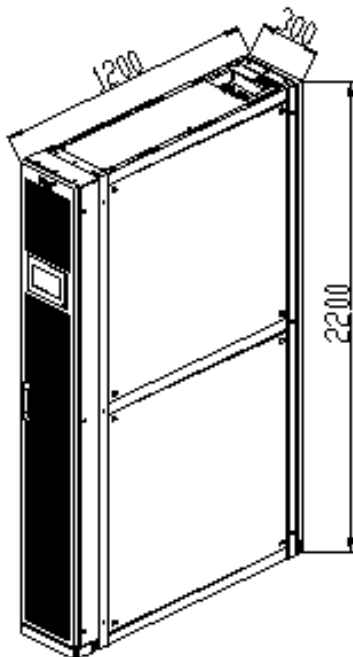| Item	Argument	Remark
Class of protection	IP20	
Routing mode	Up and out	UPS input voltage range (in the range of 176 ~ 80V, load from 100% linear to 35%±3%)
Dimensions (Width × depth × height) (mm)	600×1100×2000	
Rated voltage	380V	
Voltage range	80 ~ 280V	
Rated frequency	50 或 60Hz	
Frequency range	40 ~ 70 Hz	
Battery voltage	±192V	
Number of access phases	Three phase	
Input path number	Route 1	
Rated voltage	380V	
Voltage range	220±1%V	
Rated frequency	50 或 60 Hz	
Frequency range	50/60±0.1 Hz	
Display screen	7 in	
UPS power	90KVA	
ATS	Contains ATS (200A/4P) dual switch	
Power module	30KVA*3	
Mains output power distribution module	The air conditioner power supply is 40A/3P MCB*5, the IT cabinet PDU power supply is 50A/1P MCB*10, and the maintenance socket is 16A/1P+NA RCD*1	
UPS output power distribution module	The PDU power supply of the IT cabinet is 50A/1P MCB*10, and the other branches (such as fire control, lighting, and new fans) are 10A/1P MCB*7	

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Lithium Battery Cabinet

Item	Required	Remarks
Operating temperature	0℃ ~ + 40℃	
Storage temperature	-10℃ ~ +45℃	
Relative humidity	5-95%	
altitude	＜4000m	
noise	<65dB	
Class of protection	IP20	
Installation environment	Indoor	
Seismic strength	9 level	

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Index	Model number		Argument
Electrical specification		Nominal capacity (kWh)	15.2（10 battery modules）
		Cell discharge ratio	4C
		Battery voltage	DC 512V
		Battery capacity	40Ah
		Maximum number of modules in a single cabinet	10
		Overload capacity	125%-135% protection lasting 1min 135%-150% protection for 30S More than 150% protection lasting 500ms
		Discharge SOC balance control	Be equipped with
		Battery cold start	Be equipped with
		Automatic call activation	Be equipped with
		EPO function	Be equipped with
		Fire protection function	Equipped with modular fire protection
		SOC detection	SOC accuracy is not less than 95%
		SOH detection	SOH accuracy is not less than 90%
		Transition time from charging state to discharging state	Meet the UPS output dynamic indicator requirements
		Core insulation testing	Be equipped with
		Protection function	Over temperature, over current, short circuit, battery overvoltage, battery undervoltage, low SOC
Other characteristics		Communication mode	TCP/IP、RS485
		System display mode	Touch screen
		Module display mode	LED
		Battery overvoltage level	Level 2

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PAC Cabinet

Air Condition Technical Specification		
Type		25KW
Cooling Capacity	Cooling capacity	≥25KW
	Sensible heat ratio(SHR)	98%
Machine air volume (m³/h)		5000
Energy efficiency ratio (EER)		3.10
Compressor	Qty (PC)	6
	Type	Enclosed inverter compressor
Fans type		Hypokinesis EC centrifugal fan
Expansion valve type		Electronic expansion valve
Air supply mode		Upper, left, right and three side air supply
Evaporator		Copper pipe+ Hydrophilic fin
Freezing medium		R410A
Unit standard heating (W)		8000
Power parameter	Input	380V/50Hz
Pipe type	Refrigerant air pipe (mm)	15.88
	Refrigerant fluid pipe (mm)	12.7
Indoor machine size (mm)		300*1100*2000
Indoor machine weight (kg)		216
Outdoor machine weight (kg)		130
Connect the inner and outer machines with copper pipes and cables		5m

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Dynamic Environment Monitoring System

DCIM System（Data Center Infrastructure Management）It monitors and manages the running status of assets and resources in a data center and provides a comprehensive management platform for data centers by collecting, transmitting, and managing devices. IT serves as a bridge between the equipment room infrastructure and IT devices. IT helps O&M personnel manage data centers and improves the reliability of the equipment room and the security of communication devices. In ordinary demand, if only do power, environmental equipment monitoring, we generally call it Dynamic environmental monitoring system.

Alarm record — Alarm Lighting — Integrated monitoring host — Northbound interface — Remote browsing — Access control — Video surveillance

UPS | PDB | Line Air Condition | Battery | Humiture | Smoke | Leakage Sensor
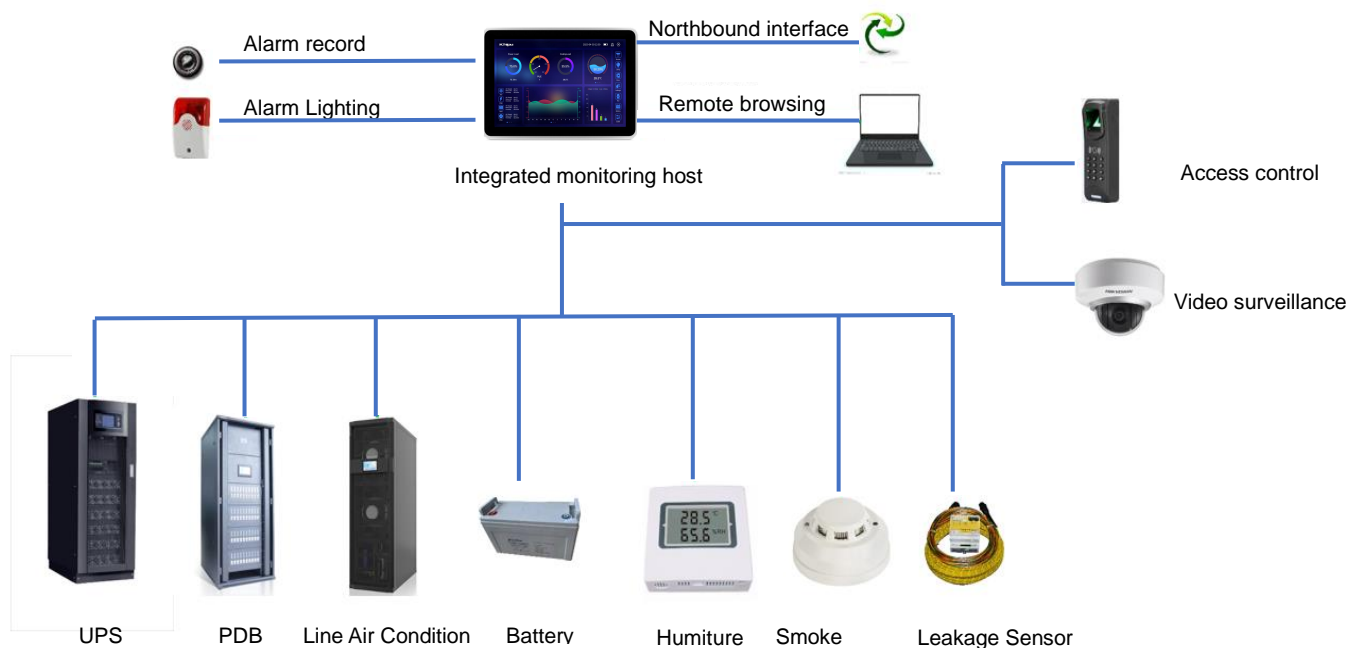
Application

Dynamic environmental monitoring system is a centralized monitoring of power equipment and environmental variables in all kinds of computer rooms.

A set of perfect the distribution of the dynamic environment monitoring system can separate power equipment and computer room environment, computer security monitoring objects such as signal acquisition, real-time monitoring system and equipment running status, security, recording and processing the relevant data, detect the fault in time, and the necessary remote control, remote regulating operation, timely notify ops staff on duty to deal with.

The purpose is to display the equipment room's few people, unattended, and centralized monitoring and maintenance management of power supply and air conditioning and improve the reliability of the power supply system and the security of communication equipment. It provides powerful technical support for the machine room management automation, intelligent operation and scientific decision making.

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Monitoring Object Description
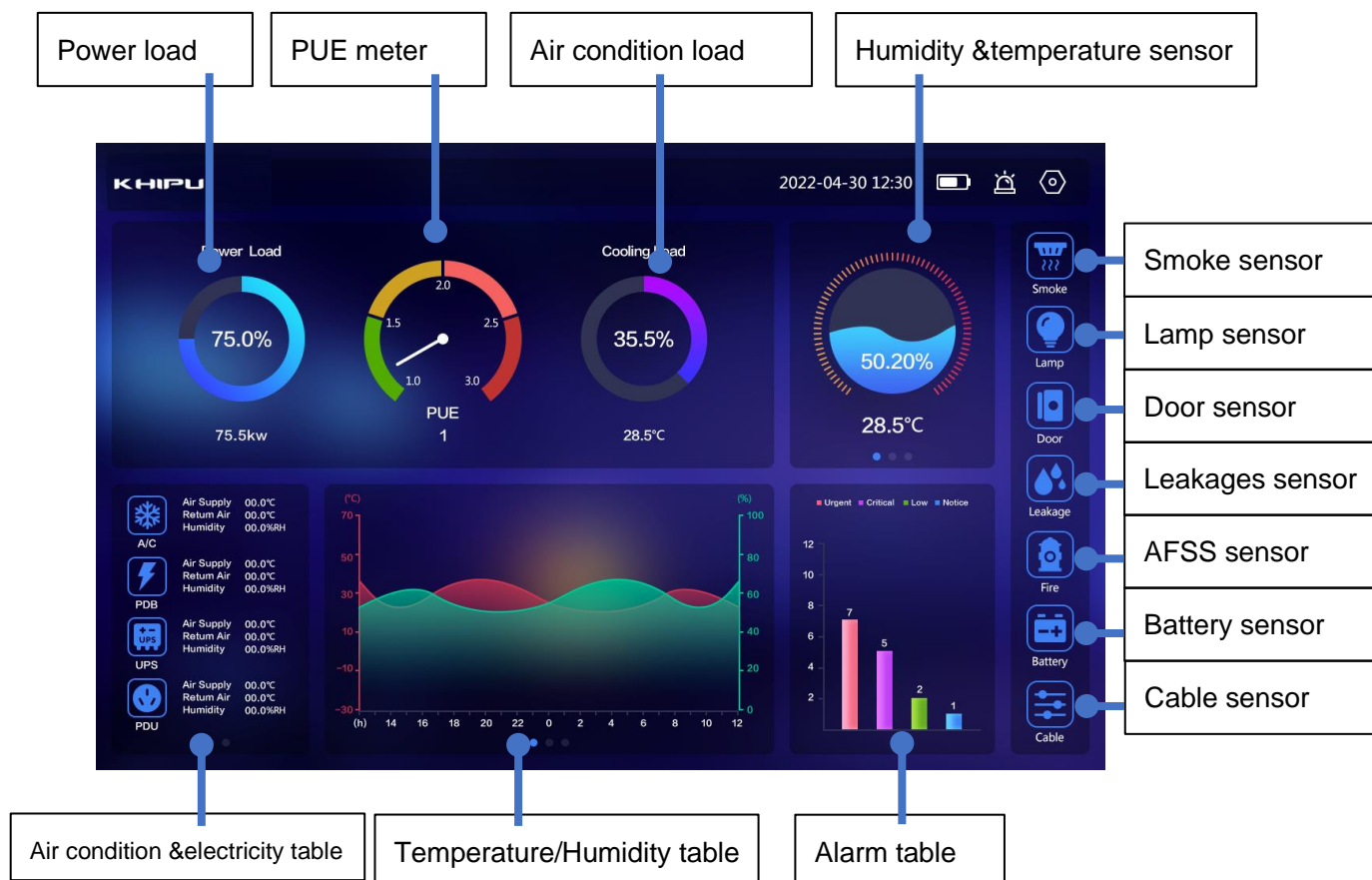
UPS: Collect the main circuit, bypass power quality such as voltage, current, power, frequency, and other information; At the same time, the operating state of the equipment is also monitored, such as UPS on/off state, operation mode and power supply mode, and the working state of its internal key electrical units.

Battery：Collect the voltage, internal resistance, temperature, and other information of a single battery. If the status reaches the warning value, it pushes alarm information in time.

Cabinet：Collect the doors open/close status.

Air Condition：Collect the air supply/return air inlet temperature, compressor working status and temperature and humidity level status.

Humidity &Temperature Sensor：Collect the humidity and temperature at cabinet, the system according to it adjust such as fans status, air conditioning run and stop.

Smoke Sensor：Collect ambient smoke status.

Leakage Sensor：Collect environmental smoke Status. Place the device in a position with water leakage risk. If water leakage occurs, the device detects and generates an alarm.

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Characteristic

High Compatibility

- Android 5.1 System，support C/S and B/S framework；
- Support local network、WIFI、4G multiple access modes；
- Expansion modules can be added to support capacity expansion.

High Reliability

- 365-day x24 hour uninterrupted operation design.
- Smart lights and alarms are synchronized.

Intelligent Management

- Man-machine interface, 10.1-inch large color touch LCD screen with humanized design, supporting multi-touch；
- Centralized monitoring and distributed viewing can be realized, and multiple remote alarm and management methods such as mobile APP, WeChat, SMS and voice can be supported, which is simple and quick；
- Support multi-module network view, simple and quick operation and maintenance.
- You can customize risk levels and different risk alarm mechanisms。
- Support to display the running status and alarm status of each device on 2D/3D electronic map, display the 3D effect of the machine room, and accurately determine the alarm point.
- Supports alarm filtering, convergence, and linkage, facilitating equipment room operation and maintenance, and simplifying and facilitating customer information viewing.
- Manage physical asset attributes and query physical asset information to assist O&M personnel in effective asset management.
- Supports U positions and asset management. Asset labels automatically identify asset information and display THE U position usage of each cabinet on the local monitoring screen.
- Power distribution system data analysis, intuitive data center energy consumption, PUE value display;
- Report function: automatically records alarm information.

Easy To Maintenance

- Support mobile device access to achieve the goal of few people or unattended.
- Support multi-module network view, simple and quick operation, and maintenance.

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Monitoring Host

The integrated monitoring screen is 10.1 inch capacitive screen, with good man-machine interface and touch performance; A full set of configuration software development tools, a new style interface; Built-in AI/DI/RS232/RS485 port; Fast data acquisition and processing; Cold aisle cabinet side plate embedded installation, beautiful; Support sliding operation, pattern unlock, important data page encryption; A single device can manage multiple intelligent devices and environment such as door status sensor smoke sensor and water leakage.

Item	Technical Specification
CPU	ARM Cortex A9 Quad-core, Max Frequency 1.2GHz
Operating System	Android 5.1
Memory	DDR3L 2GB
Flash Rom	8GB eMMC Flash
Standard Serial Port	2 Ports RS232
Standard Serial Port	2 Ports RS485
Debug Port	1 Port Micro USB
Digital Input Port	2 Ports DI
Digital Output Port	2 Ports DO(for relay control)
USB Port	3 Ports (1 Port USB Host, 2 Ports USB Device)
Debug Port	1 Port Micro USB
Output Supply	6 Ports 12V/1A
Wireless	Reserved for 3G, 4G and Wi-Fi module expansion slot
Ethernet	1 Ports RJ45 10M/100M/1000M
Operating Voltage	12V DC
Max Power	35W
Size	266 mm× 182 mm× 48.5 mm
ESD Level	Contact: 6KV; Air: 8KV
MTBF	≥100000H
Operating Temperature	-20~60℃
Operating Humidity	10%~90%RH

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Tube Network Camera

Item	Spec
Camera	
Sensor type	1/2.7"Progressive Scan CMOS
Minimum Illuminance	0.01Lux@(F1.2, AGCON),0LuxwithIR
Shutter	1/3s to 1/100,000s
Lens	2.7-12mm at F1.4 with a horizontal field of view: 98°-30.2°, (fixed focal lengths of 4mm, 6mm, 8mm, and 12mm are available)
Lens interface type	Φ14
Day/Night conversion mode	ICR (Infrared Cut-Filter) filter type
Digital noise reduction	3D digital noise reduction
Wide dynamic range	Digital wide dynamic range
Network functionality	
Storage functionality	Supports MicroSD/SDHC/SDXC cards (up to 128GB) for local storage when disconnected from the network, and NAS (supports NFS, SMB/CIFS)
Interface	
Communication interface	RJ45 10M/100M auto-negotiation Ethernet port
General specifications	
Infrared illumination distance	10m-30m
IP level	IP67
Size（mm）	203.9×91.3×92.8

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Hemispherical Network Camera

Item	Spec
Camera	
Sensor type	1/2.7″ Progressive Scan CMOS
Minimum Illuminance	0.01Lux@(F1.2,AGCON), 0LuxwithIR
Shutter	1/3s to 1/100,000s
Lens	2.8mm focal length, horizontal field of view: 113.5° (options for 4mm, 6mm, 8mm, and 12mm focal lengths are available)
Lens interface type	M12
Day/Night conversion mode	ICR (Infrared Cut-Filter) filter type
Digital noise reduction	3D digital noise reduction
Adjustment angle	Horizontal: 0° to 355°, Vertical: 0° to 75°
Wide dynamic range	120dB
Network functionality	
Storage function	Supports MicroSD/SDHC/SDXC cards (up to 128GB) for local storage when disconnected from the network, and NAS (supports NFS, SMB/CIFS)
Support protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,PPPoE, NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour
Interface protocols	ONVIF (PROFILE S, PROFILEG), GB28181, ISAPI
General functions	One-click restore, anti-flicker, triple stream, heartbeat, mirroring, password protection, video masking, watermarking, IP address filtering
Interface	
Communication interface	RJ45 10M/100M auto-negotiation Ethernet port
General specifications	
Operating temperature and humidity	-30℃~60℃,Humidity less than 95% (non-condensing)
Power supply	DC12V±25%/PoE(802.3af)
Power	No PoE:5W Max；PoE:6.5W Max
Infrared illumination distance	10m-30m
IP level	IP67
Anti-explosion level	IK10
Size (D*H) (mm)	Ø111×82.4

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NVR

Item	Spec
Video and audio input	
Network video input	8 ports
Network video access bandwidth	128Mbps
Video and audio output	
HDMI output	2 ports
VGA output	2 ports
Audio output	2 ports，RCA port
Preview split	1/4/6/8/9/16/25/32 Screen
Hard disk drive	
Type	4*SATA ports，1*SATA port
Maximum capacity	Each interface supports hard drives with capacities such as 500GB, 1TB, 2TB, 3TB, 4TB, 5TB, 6TB, etc.
External interface	
Intercom input	1pc, RCA port
Network interface	2pcs, RJ45 10M/100M/1000M auto-negotiation Ethernet port
Serial interface	1pc, Standard RS-485 full-duplex serial interface (reserved)
	1pc, 485 port
	1pc, Standard RS-232 serial interface
USB port	1*USB3.0；2*USB2.0
Alarm input	16 ports
Alarm output	4 ports (8 ports)
Others	
Power	AC220V
Power consumption (excluding hard drives)	≤35W
Working temperature	-10℃-＋55℃
Working humidity	10％-90％
Cabinet	19-inch standard 2U chassis
Size(W*D*H) (mm)	445*470*90

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Ordering Information

```
CDC-    XXX   XX   -   XX    XX    -   XX    XX    -   XX    XX
         1     2        3     4         5     6         7     8
```

1.Cabinet specifications and quantity		2.Channel type	
1:600*1000*2000,42U	01:1pc	1: Single side cold passage	1: fixed skylights on both sides, inverted skylights in the middle (single opening without automatic resetting), automatic sliding doors on both sides of access doors, wiring slots at the top, and peripheral sealing plates at the top.
2: 600*1100*2000,42U	02:2pcs	2: Two side cold passage	2: fixed skylight on both sides, inverted skylight in the middle (double-opening without automatic resetting), automatic sliding doors on both sides of access doors, wiring trough at the top, and peripheral sealing plate at the top.
3: 600*1200*2000,42U	03:3pcs		3: fixed skylight on both sides, inverted skylight in the middle (single opening without automatic resetting), manual sliding doors on both sides of access doors, wiring trough at the top, and peripheral sealing plate at the top.
4: 600*1000*2200,47U	04:4pcs		4: fixed skylight on both sides, inverted skylight in the middle (double-opening without automatic resetting), manual sliding doors on both sides of access doors, wiring trough at the top, and peripheral sealing plate at the top.
5: 600*1100*2200,47U	...		5: fixed skylights on both sides, inverted skylights in the middle (single-opening without automatic resetting), double-opening revolving doors on both sides of access doors, wiring ducts at the top, and peripheral sealing plates at the top.
6: 600*1200*2200,47U	48:48pcs		6: The fixed skylight on both sides, the inverted skylight in the middle (double-opening without automatic resetting), the double-opening revolving door on both sides of the access door, the top with wiring trough, and the top peripheral sealing plate.
7: 800*1000*2000,42U			
8: 800*1100*2000,42U			
9: 800*1200*2000,42U			
A: 800*1000*2200,47U			
B: 800*1100*2200,47U			
C: 800*1200*2200,47U			

3.Type and quantity of precision distribution cabinet		4.UPS Capacity and Quantity	
1: General Distribution Cabinet	0: NA	0: Without UPS	0：0 set
2: Precision Distribution Cabinet	1:1pc	1: modular 30KVA	1：1 set
3: Integrated UPS Cabinet	2:2pcs	2: modular 40KVA	2：2 set
	3:3pcs	3: Modular 50KVA	3：3 set
		4: Modular 60KVA	4：4 set
		5: Modular 80KVA	
		6: Modular 90KVA	
		7: Modular 100KVA	
		8: Modular 120KVA	
		9: Modular 150KVA	
		A: modular 200KVA	
		B: modular 300KVA	
		C: Tower 30KVA	
		D: Tower 40KVA	
		E: Tower 50KVA	
		F: Tower 60KVA	
		G: Tower 80KVA	
		H: Tower 100KVA	
		I: Tower 120KVA	
		J: Tower 150KVA	
		K: Tower 200KVA	
		L: Tower 300KVA	

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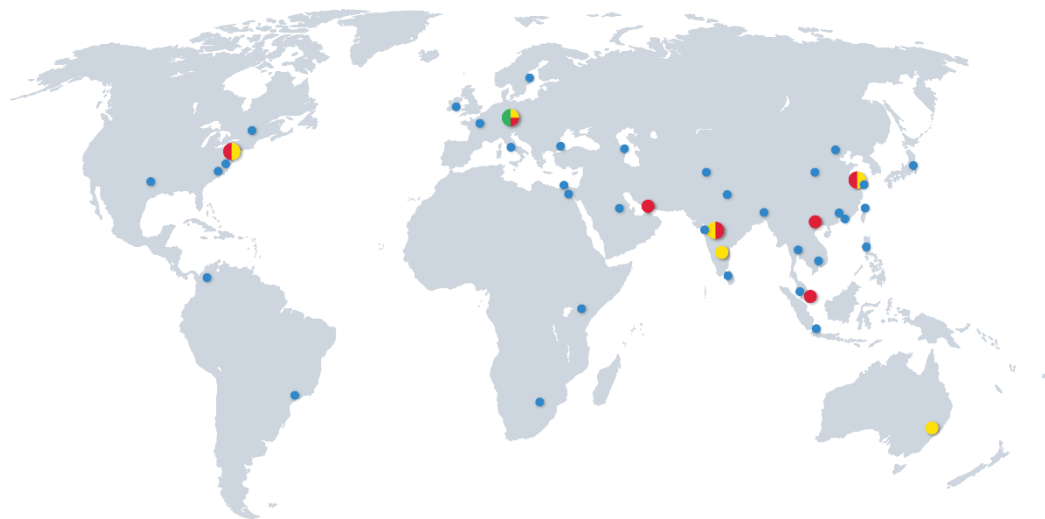
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