

Product Introduction

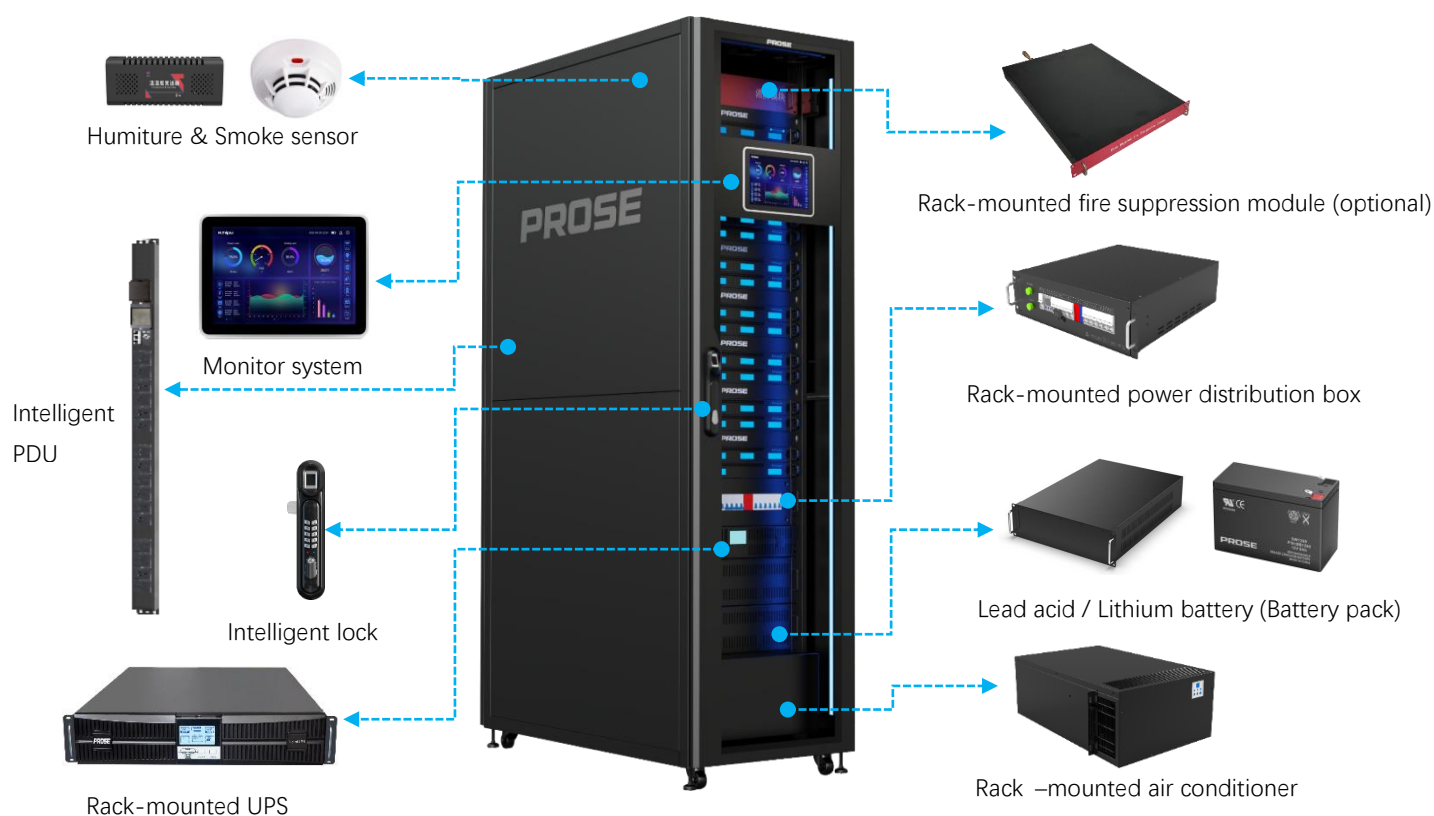
Traditional miniaturized data centers have problems such as high maintenance costs, long construction time, and inability to timely understand the operating status. Prose created and innovated smart micro-data center to meet the requirements.

To meet the future deployment requirements of edge computing applications, the KHIPU Smart Microdata Center adopts a modular development concept, The advantage of low cost, suitable for customers to install quickly and put into use in time.

The Smart Microdata Center contains cabinets, power distribution systems, refrigeration systems, cabling systems, while meeting the need for continuous power, to prevent data loss, MDC can be accessed through TCP/IP, Cloud App, etc., so that customers can know the running status of the product in real time. Temperature and humidity monitoring system and air-cooling system provide suitable working environment for customers' products. It also includes face recognition, fingerprint recognition and other authentication to provide data security protection.

Main Feature

- Lower Investment by 25%
- Fast Installation Only 2H
- FC AC Energy Saving 30%
- PUE Less Than 1.26
- System Emergency Response Protection
- Biometrics Authentication
- Cascading Available for Rack
- Saving Room Space 50%
- Quiet Operation Less-than 55dB
- DCIM 24H Cloud O&M



System specification

W600mm* D1200mm * H2050mm, 1 pcs of racks can be put in cascade configuration.

Item	Standard Cabinet
Height Unit (customizable)	42U
Cabinet Size (mm)	600 (W) x 1200(D) x 2050(H)
Weight	About 180kg
Static Load	Up to 2200kg
Color	Black or Gray
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	IP5X
Display Panel	10.1" Touch Panel LCD
Display Languages	English / Chinese
LED Lighting	BI-Color (Red & Blue)
Front Door	Toughened glass door with Mechanical lock or fingerprint lock (Support face detector)
Rear Door	Sheet metal door
Safety Standard	RoHS

Power Distribution Box



No.	Parameter	Value
1	Input Rated Voltage(V)	220VAC
2	Input Rated Current(A)	50A
3	Input Switch	50A /1P
4	Output Switch	2*32A/1P+C32A/2P+D20A/1P+16A/1P*4
5	Lightning Protection Level	Class C lightning protection
6	Dimensions(mm)	W*D*H, 483*500*3U
7	Color	Black, off-white or according to customer's specification
8	Ways To Enter and Exit	Top-in and top-out or according to customer's designation
9	Installation	19" Rack mounted
10	Cooling	Natural cooling

Precision Air Conditioning



Rack-Type Air Condition Technical Specification		
Type		3.5KW
Cooling Capacity	Cooling Capacity	3.6
	Sensible Heat Ratio(SHR)	98%
Machine Air Volume (m³/h)		840
Energy Efficiency Ratio (EER)		3.36
Compressor	Qty (PC)	1
	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)		500
Power Parameter	Input	220V/50Hz
	Electric Power Supplying Parameters FLA(A)	7.8
	Recommended Air Switch Model	16A
Pipe Type	Self-Draining Pipe (mm)	Inner p16/Outer p21
	Strong-Draining Pipe (mm)	Inner p5/Outer p7
	Refrigerant Air Pipe (mm)	9.52
	Refrigerant Fluid Pipe (mm)	6.35
Indoor Machine Size (mm)		440×700×217
Indoor Machine Weight		26kg
Outdoor Machine Size (mm)t		844×286×604
Outdoor Machine Weight		31kg

UPS (Uninterrupted Power Supply)



1-Phase Input 1-Phase Output 3KVA Technical Specification		
Option Capacity		3000VA/2400W
Voltage Range	Minimum Switching Voltage	160VAC/140VAC/120VAC/110VAC±5% (The ambient temperature is less than 35 ° C) (Proportional to load 100%-80%/80%-70%/70-60%/60%-0)
	Minimum Recovery Voltage	175VAC/155VAC/135VAC/125VAC±5% (The ambient temperature is less than 35 ° C) (Proportional to load 100%-80%/80%-70%/70-60%/60%-0)
	Maximum Switching Voltage	300VAC±5%
	Maximum Recovery Voltage	290VAC±5%
Frequency		40Hz~70Hz
Phase		Single phase grounding type
Power Factor		≥0.97@220-230VAC (Input voltage)
Output Voltage		200/208/220/230/240VAC
Voltage Accuracy		±1% (Battery Mode)
Frequency		47~53Hz or 57~63Hz
Frequency (Battery Mode)		50Hz±0.25Hz 或 60Hz±0.3Hz
Overload		When the ambient temperature is less than 35 ° C: 105% to 110%: The UPS automatically shuts down after 10 minutes in battery mode or switches to bypass mode when the input is normal. 110% to 130%: The UPS automatically shuts down after 1 minute in battery mode or switches to bypass mode when input is normal. >130%: The UPS automatically shuts down after 3 seconds in battery mode or switches to bypass mode when input is normal.
Current Crest Ratio		3: 1
Harmonic Distortion		≤3%THD(linear load) ; ≤6%THD(nonlinear load)
Switch Time	Switch The Mains Mode to Battery Mode	0ms
	Frequency Conversion Mode to Bypass Mode	4ms (Standard Conditions)
Mains Mode		90%
Battery Mode		88%
Long Machine	Battery Type	According To Different Application
	Battery QTY	8
Long Machine	Charging Current	6A
	Charging Voltage	109.4VDC±1%
Standard Machine	Size(mm))	410x438x88[2U]
	Weight(kg)	14.2
Operation Humidity		20-90%RH@0-40℃(Noncondensing)
Noise		Less than 50dBA@1m
Operating Altitude		<1000m
RS-232 or USB(Optional)		Support Windows Q 2000/2003/XP/Vista/2008/7/8、Linux、 Unix and MAC
Option SNMP		Support SNMP administrator and web suit

Dynamic Environment Monitoring System



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°C
Operating Humidity	10%~90%RH

Battery Pack



Battery Pack



Valve Regulated Lead Acid Battery (VRLA)

Cabinet Power	Backup Time	Battery Pack Type	Battery Pack QTY
3KVA (2.4kw)	15 mins	3U Battery Pack (16pcs 9AH)	1set

PDU (Power Distribution Unit)



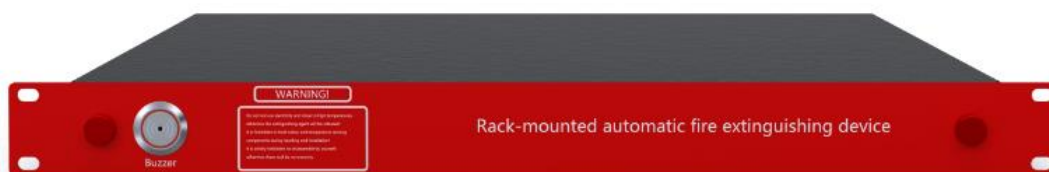
Item	Specification
Rated current	16A
Rated voltage	220VAC 50/60Hz
Output ports	12*C13
Max power	5KW
Outline size	1217(Adjustable length) x 44 x 44 mm
Installation method	Horizontal/Vertical installation
Safety certification	UL/CE/CCC
Function	Lightning protection, intelligent monitoring, and general circuit breaker are optional

Integrative Door Lock



Type of Device	Specification
Rated operating voltage	DC12V
Working current	Static standby: <250mA Dynamic Electronically Controlled Unlocking: <500mA
Communication mode	RS485, 9600bit/s
Service life	Above 500,000 times
Color	Black
Operating temperature/humidity	-20℃ ~50℃ / 20 ~ 90%
Storage temperature/humidity	-30℃ ~60℃ / 20 ~ 90%
IP rate	IP65
3 unlock modes	Remote unlocking by monitoring host control software Authorized card writes the card number and swipes card to unlock Mechanicals unlock
Access control authorization	500 to 5000 fingerprints
Authorized entrance number	Up to 5000
Software authorization	Authorized by system software through network Communication
Event records	Up to 1120 history records
Function	Mechanical unlocking, password of the IC card, fingerprint and so on, can be paired with
Communication interface	RS485 networking real-time monitoring, door status, handle status, real-time clock function

Automatic Fire Suppression System



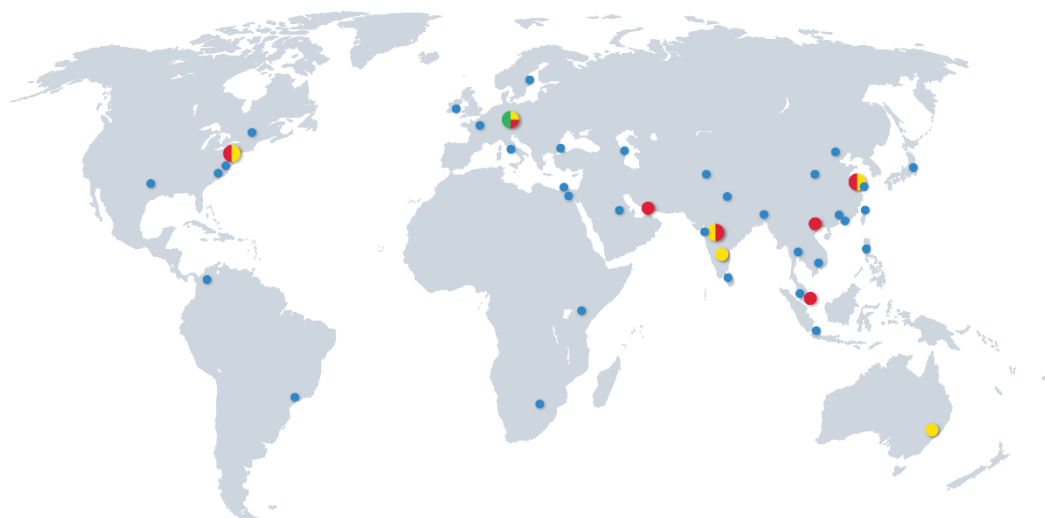
Type Of Device	Automatic fire suppression system
Model number	AFFS-NONPRESS-1U
Control the number of cabinets	1set
Size	483(W)*580(D)*1U(H)mm
Fire extinguishing agent	Novec1230
Storage pressure(20℃)	0MPa
Injection time	≤10S
Action temperature of fire detecting tube	68 °C & smoke
Effective protection volume	3.45m³

Product Configuration

PN	Description	Picture
MDC-5111-1111-A141-1151	Single cabinet KHIPIU MDC: 1 set Close Cabinet 42U: 600mm x 1200mm x 2050mm 1 set UPS capacity is 3KVA 1-phase 15-minute Battery Pack 1 set Panel Distribution Box 1 Phase 1 set Precision Air Cooling 3.5 KW 1 pc Smoke sensor 1 pc Temperature & Humidity Sensor 1 pc 12 outlet PDU, 16A, IEC 320 C13 1 pc Keypad, Fingerprint lock 1 set Automatic fire suppression system 1 set Master Environmental Monitoring System bundling with Touch Panel LCD for Dashboard	

Note: The above product information is the default information and can be customized according to customers.

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