



Data Center Infrastructure

PROSE

Who We Are

Rosenberger Hochfrequenztechnik GmbH & Co. was founded in Germany in 1958 and ranks among the leading manufacturers of high-speed interconnect solutions worldwide. With its long tradition of excellence and innovation, Rosenberger has excelled and earned an outstanding reputation all over the world.

In early 2022 the Rosenberger Group announced the restructure of its antenna and coverage solution product portfolio with a new brand entity PROSE. The strategic focus of PROSE will be on the development of base station antennas, microwave antennas, indoor and outdoor coverage solutions, Open RAN sub-systems, data center, cabling system, IoT solutions, Automotive and related services.

As an independent entity, PROSE, with its lean, agile, and decentralized organizational structure, will be better placed to serve global customers and manage growth by bringing new technologies and solutions, aligned with the changing needs of customers in the telecom industry. The PROSE product portfolio will uphold Rosenberger's tradition of the highest innovation and quality while delivering improved technology expertise and enhanced local customer support around the globe.

PROSE consists of more than 3500 people, with 40+ subsidiaries sales/service offices, 4 factories, and 7 R&D centers covering mainly North America, Europe, the Middle East, Africa, and Asia. It will continue to serve more than 100 operators/ service providers worldwide including a wide set of customized solutions for 5G deployments.

PROSE is an ISO 9001 quality system and ISO 14001 environmental system certified company. Equipped with advanced machinery, automatic assembly, and testing centers supported by a large group of more than 400 R&D engineers, state-of-the-art production assembly lines, and stringent product and quality control.

PROSE's reliability and competitiveness are the cornerstones of this sustainable growth, which have resulted in long-term partnerships with most of the leading companies in their respective industries. PROSE will continue to provide excellent product solutions and services for its customers around the world.



A: Pune, India
B: New Jersey, USA
C: Donauwörth, Germany
D: Suzhou, China

Mission

- Customer always comes first
- Drive innovation together with and for our customers
- Maintain a secure, humane and happy environment for our employees
- Develop our employees by investing in their education
- Take social responsibility
- Protect our environment with ecologically friendly products, production and processes

Core Value

- Value Innovation
- Customer Focus
- Sustainable Growth
- Social Responsibility



Products & Services

Digital World Products	Automatic Infrastructure Management System Building Cabling System Data Center Cabling System Edge Computing Data Center Modular Data Center MDC Cloud Management Platform
------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

BTS Antennas	Single-MultiBand Antennas Multibeam Antennas Beamforming Antennas Small Cell Antennas High Efficiency BSA (PROTREM) 5G Massive MIMO Antennas Camouflage Products
--------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Network Systems	Combiner Unit Master Unit Extended Unit Low Power Remote Unit (LPRU) High Power Remote Unit (HPRU)-Cabinet 4G High Power Remote Unit (HPRU)-Cabinet 5G High Power Remote Unit (HPRU)-Blade 4G High Power Remote Unit (HPRU)-Blade 5G Medium Power Remote Unit (MPRU) Passive DAS Components
-----------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Microwave Products	Class 3 Series Class 4 Series E-Band Series Dual-Band Series Microwave Components
--------------------	-----------------------------------------------------------------------------------------------

O-RAN Radios	ORAN Radio Unit (ORU) Digital Control Unit (DCU) Small Cell
--------------	-------------------------------------------------------------------

Archer Site Accessories	RF Coaxial Products Power Products Fiber Products Hybrid Cable Solution Installation Material
-------------------------	-----------------------------------------------------------------------------------------------------------

Filter Solutions	Interference Mitigation Filters Embedded Filters Site Combiners
------------------	-----------------------------------------------------------------------

Contents

- MDC System Introduction7
- 100% Space MDC System Introduction11
- Modular Data Center14
- Outdoor Data Center18
- Container Data Center20
- Electromagnetic Shield Cabinet24
- Cooling Channel Product26
- Power Distribution Unit32
- Precision Air Conditioner34
- F Series Room-Level Precision Air Conditioner34
- G Series Inrow Precision Air Conditioner36



MDC System Introduction

Product Introduction

From Germany and adhering to German quality, committed to providing customers with professional data center infrastructure solutions. The integrated smart cabinet data center infrastructure solution transforms data center infrastructure construction into customized products. The integrated design integrates the power supply and distribution system, refrigeration system, cabinet system, fire control system, dynamic monitoring system, and security system, saving room space. IT devices such as servers, KVM, routers, and switches can be installed.

Application

Weak current room, monitoring room and small data room in government, finance, industry, communication, transportation, power energy, medical care, education, Internet, and other industries. The room area is no more than 40 square meters.



Single Cabinet



Dual Cabinet



Triplex Cabinet



Quadruple Cabinet



Five Joint Cabinet



Six Joint Cabinet



Eight Joint Cabinet

Certification System

Data center products strictly implement the national and relevant industry standards, through the corresponding national quality management system, Their certification, CE certification and other authoritative certification, with excellent quality and perfect service that most users affirmed.



Features of PROSE Micro Data Center

 <p>Energy</p> <ul style="list-style-type: none"> • AC Energy Saving 30% • PUE Less Than 1.26 	 <p>Safety</p> <ul style="list-style-type: none"> • System Emergency Response Protection • Biometrics Authentication
 <p>Environment</p> <ul style="list-style-type: none"> • Saving Room Space 40% • Quiet Operation Less-than 58dB • Joint Available for Rack 	 <p>Cost</p> <ul style="list-style-type: none"> • Lower Investment by 25% • Fast Installation Only 2H
 <p>Smart</p> <ul style="list-style-type: none"> • DCIM 24H Cloud O&M • Local and Remote Alarm Modes Available 	

System Specification

The cabinet dimensions can be customized as required, 1 to 10 pcs of racks can be put in cascade configuration.



Technical Parameters

Item	Micro Data Center	
Height unit (customizable)	27U	42U
Cabinet size W*D*H(mm)	600(800) x 800(1200) x 1350	600(800) x 800(1200) x 2050
Number of cabinets	1	1-10
UPS capacity(kVA)	3/6	3/6/10/15/20/25/30/40
IT load(kW)	2.7/5.4	2.7/5.4/10/15/20/25/30/40
UPS input voltage	≤6kVA: AC220V	≤10kVA: AC220V; >10kVA: AC380V
UPS space	≤6kVA: 2U	≤10kVA:2U; 15~25kVA:3U; 30~40kVA:4U
Battery Voltage	DC96V/DC192V~DC240V	DC96V/DC192V~DC240V/DC384V~DC480V
Battery Backup	On-demand selection	On-demand selection
PDB Input Voltage	≤6kVA:AC220V	≤10kVA: AC220V; >10kVA: AC380V
PDB Input Current	≤6kVA: 40A~50A	≤10kVA: 40~80A; >10kVA: 50A~125A
Refrigerating capacity of Air conditioner (kW)	3.5	3.5/6.5/12.5
Diesel generator power port	On-demand selection	On-demand selection
Channel closure type	Fully enclosed hot and cold aisles	Fully enclosed hot and cold aisles
Power environmental management system	It can monitor temperature and humidity, smoke, water leakage, power distribution, UPS battery, air conditioning and other equipment, and has a key unlock, PUE display function; The alarm mode can be email, SMS, or mobile APP	
PDU	Standard PDU or smart PDU can be selected	
Fire suppression system	Option, Configure one cabinet for each cabinet	
Refrigerant	R410A	
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/T3047.6-2007	
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 smart lock	
Unlocking function	Fingerprint /IC card/keyboard/key	
Rear door	Enclosed steel door, The rear door automatically opens when the temperature is too high	
Static load	Up to 2200kg	
Safety standard	RoHS	

Ordering Information

MDC- XX XX - XX XX - XX XX - XX X X
1 2 3 4 5 6 7 8 9

1. Cabinet Type and Quantity	4. Type of Precision Air Conditioning and Quantity
1: 27U*600mm*1200, Black 2: 27U*600mm*1200, Black 3: 27U*600mm*1200, Gray 4: 27U*800mm*1200, Gray 5: 42U*600mm*1200, Black 6: 42U*800mm*1200, Black 7: 42U*600mm*1200, Gray 8: 42U*800mm*1200, Gray 9: 42U*600mm*800, Black A: 27U*600mm*800, Black	1: Single cabinet 2: Dual cabinet 3: Triplex cabinet 4: Quadruple cabinet 5: Five joint cabinet 6: Six joint cabinet 7: Seven joint cabinet 8: Eight joint cabinet 9: Nine joint cabinet A: Ten joint cabinet
2. UPS Capacity and Quantity	5. PDU Standard and Quantity per Cabinet
0: Without UPS 1: Rack type 3KVA 2: Rack type 6KVA 3: Rack type 10KVA 4: Rack type 15KVA 5: Rack type 20KVA 6: Rack type 25KVA 7: Rack type 30KVA 8: Rack type 40KVA	0: Without Air Conditioner 1: One Air Conditioner 2: Two Air Conditioners 3: Three Air Conditioners 4: Four Air Conditioners 5: Five Air Conditioners 6: Six Air Conditioners
3. Uninterrupted Power Supply Time and Battery Storage Mode	6. Dynamic Environment Monitoring System and Quantity
0: Without battery 1: 15 minutes 2: 30 minutes 3: 60 minutes 4: 120 minutes	0: Oea 1: 1ea 2: 2ea
7. Server-rack Fire Suppression Unit and Quantity	8. Lock Type
0: None fire suppression unit 1: Four cabinets can be detected, but only one cabinet can be detected at a time 2: One fire suppression unit controls five cabinet	0: No Lock 1: Mechanical lock 2: Intelligent lock with keypad 3: Intelligent lock with Fingerprint 4: Intelligent lock with IC card 5: Intelligent lock with Keypad +Fingerprint 6: Intelligent lock with Keypad + IC card 7: Intelligent lock with Keypad + IC card +Fingerprint 8: Intelligent lock and face detect with keypad 9: Intelligent lock and face detect with Fingerprint A: Intelligent lock and face detect with IC card lock B: Intelligent lock and face detect with Keypad +Fingerprint C: Intelligent lock and face detect with Keypad + IC card D: Intelligent lock and face detect with Keypad+ IC card Fingerprint
9. Quantity of PDB	
1: 1ea 2: 2ea	

100% Space MDC System Introduction

Product Introduction

The power distribution system and cooling system in the original MDC take up some space. In some scenarios, customers may have insufficient space for their equipment. To address this issue, PROSE has developed the 100% space MDC, which relocates the power distribution and cooling systems to the sides, significantly improving the space utilization rate for customers.

Application

Weak current room, monitoring room and small data room in government, finance, industry, communication, transportation, power energy, medical care, education, Internet, and other industries. The room area is no more than 40 square meters.



Features of PROSE Micro Data Center

 <ul style="list-style-type: none"> AC Energy Saving 30% PUE Less Than 1.26 	 <ul style="list-style-type: none"> System Emergency Response Protection Biometrics Authentication
 <ul style="list-style-type: none"> Saving Room Space 40% Quiet Operation Less-than 58dB Joint Available for Rack 	 <ul style="list-style-type: none"> Lower Investment by 25% Fast Installation Only 2H
 <ul style="list-style-type: none"> DCIM 24H Cloud O&M Local and Remote Alarm Modes Available 	

System Specification



Technical Parameters

Item	100% Space Micro Data Center
Height unit (customizable)	42U
Cabinet size W*D*H(mm)	800 x 1200 x 2050
Number of cabinets	1
UPS capacity(kVA)	3/6
IT load(kW)	2.7/5.4
UPS input voltage	≤6kVA: AC220V
UPS space	≤6kVA: 2U
Battery Voltage	DC96V/DC192V~DC240V
Battery Backup	On-demand selection
PDB Input Voltage	≤6kVA:AC220V
PDB Input Current	≤6kVA: 40A~50A
Refrigerating capacity of Air conditioner (kW)	3.5
Diesel generator power port	On-demand selection
Channel closure type	Fully enclosed hot and cooling channel
Power environmental management system	It can monitor temperature and humidity, smoke, water leakage, power distribution, UPS battery, air conditioning and other equipment, and has a key unlock, PUE display function; The alarm mode can be email, SMS, or mobile APP
PDU	Standard PDU or smart PDU can be selected
Fire suppression system	Option, Configure one cabinet for each cabinet
Refrigerant	R410A
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/T3047.6-2007
IP level	IP5X
Display panel	10.1" Touch Panel LCD
Display languages	English / Chinese

Item	100% Space Micro Data Center
LED lighting	BI-Color (Red & Blue)
Front door	Toughened glass door with mechanical lock or smart lock
Unlocking function	Fingerprint /IC card/keyboard/key
Rear door	Enclosed steel door, The rear door automatically opens when the temperature is too high
Static load	Up to 2200kg
Safety standard	RoHS

Ordering Information

HMDC- XX XX - XX XX - XX XX - XX X X
1 2 3 4 5 6 7 8 9

1. Cabinet Type and Quantity		5. PDU Standard and Quantity per Cabinet	
1: 42U*800mm*1200, Black	1: Single cabinet	A:12 outlet PDU, 16A, IEC 320 C13	0: 0ea
2: 42U*800mm*1200, Gray		B: 12 outlet PDU, 16A, IEC 320 C13 Smart	1: 1ea
		C: 24 outlet PDU, 16A, IEC 320 C13	2: 2ea
		D: 24 outlet PDU, 16A, IEC 320 C13 Smart	
		E: 24 outlet PDU, 32A, IEC 320 20*C13+4*C19	
		F: 24 outlet PDU, 32A, IEC 320 20*C13+4*C19 Smart	
		G: 24 outlet PDU, 16A, IEC 320 20*C13+4*C19	
		H: 24 outlet PDU, 16A, IEC 320 20*C13+4*C19 Smart	
		J: 24 outlet PDU, 32A, IEC 320 C13	
		K: 24 outlet PDU, 32A, IEC 320 C13 Smart	
		L: 24 outlet PDU, 32A, IEC 320 C19	
		M: 24 outlet PDU, 32A, IEC 320 C19 Smart	
		N: 24 outlet PDU, 32A, IEC 320 18*C13+6*C19	
		O: 24 outlet PDU, 32A, IEC 320 18*C13+6*C19 Smart	
		P: 12 outlet PDU, 32A, IEC 320 9*C13+3*C19	
		Q: 12 outlet PDU, 32A, IEC 320 9*C13+3*C19 Smart	
		R: 8 outlet PDU, 16A, GB port, with surge protection module	
		S: 24 outlet PDU, 63A, IEC 320 24*C13	

2. UPS Capacity and Quantity	
0: Without UPS	0: 0ea
1: Rack type 3KVA	1: 1ea
2: Rack type 6KVA	2: 2ea

3. Uninterrupted Power Supply Time and Battery Storage Mode	
0: Without battery	1: Battery Pack
1: 15 minutes	2: Lead-Acid Battery in cabinet
	3: Lead-Acid Battery in rack

4. Type of Precision Air Conditioning and Quantity	
1: Rack type 3.5kW air conditioning	0: Without Air Conditioner
	1: One Air Conditioner

6. Dynamic Environment Monitoring System and Quantity	
1: No display host, collects UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, access control, intelligent PDU, and northbound interface	0: None
2: No display host, collect UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, and northbound interface	1: 1ea
3: Monitors the integrated screen, collecting the UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, access control, intelligent PDU, and northbound interface	2: 2ea
4: Monitors the integrated screen, collecting the UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, and northbound interface	

7. Server-rack Fire Suppression Unit and Quantity		8. Lock Type	
0: None fire suppression unit	0: 0 set	0: No Lock	
1: Four cabinets can be detected, but only one cabinet can be detected at a time	1: 1 set	1: Mechanical lock	
		2: Intelligent lock with keypad	
		3: Intelligent lock with Fingerprint	
		4: Intelligent lock with IC card	
		5: Intelligent lock with Keypad +Fingerprint	
		6: Intelligent lock with Keypad + IC card	
		7: Intelligent lock with Keypad + IC card +Fingerprint	
		8: Intelligent lock and face detect with keypad	
		9: Intelligent lock and face detect with Fingerprint	
		A: Intelligent lock and face detect with IC card lock	
		B: Intelligent lock and face detect with Keypad +Fingerprint	
		C: Intelligent lock and face detect with Keypad + IC card	
		D: Intelligent lock and face detect with Keypad+ IC card Fingerprint	

9. Quantity of PDB	
1: 1ea	
2: 2ea	

Modular Data Center

Product Introduction

Modular data center is to integrate the power distribution system, cooling system, dynamic environment monitoring system, fire protection system, security system and cooling channel system into an intelligent platform, which further improves the safety, reliability, and health of equipment, and is greener and energy-saving.

Modular infrastructure can meet the requirements of customers' special needs and usage, meet the requirements of prefabricated production of all modular internal infrastructure and equipment, assemble, and deliver on site quickly, and truly realize the one-stop solution of rapid deployment of IT equipment. It has the characteristics of modular integration, safety, and reliability, saving room floor space and energy, saving time, labor and worry in installation, compatible architecture, quick and flexible deployment, intelligent monitoring, efficient and stable cooling, etc. It is a new generation of intelligent modular data center products.

Application

It is mainly used in small and medium data center scenarios. Its simple design, strong architectural adaptability, and low requirements for computer room floor height and renovation meet the data center deployment requirements of corporate headquarters or large branches, bank headquarters and secondary branches, government, operators, education, medical care, energy, and other industries.



Technical Parameters

Module Data Center	
Specification	Standard: Width:3600mm; Height 2000mm/2200mm; Length:15000mm; Support other customization requirements
Number of IT cabinets	Maximum support 48 cabinets
Average power of single cabinet	Standard 3-5 kw, supporting other customization requirements
Recommended installation method	Steel structure base or epoxy floor
Power supply support architecture	Two-way UPS, two-way commercial power, one-way commercial power, and one-way UPS Support other customization requirements
Flip skylight	Automatic turnover of glass skylight, supporting fire linkage control
Intelligent	Energy-saving LED lighting, supporting human body induction
Intelligent atmosphere lamp	Intelligent atmosphere light, supporting alarm linkage color change
Cabinet Size (W*D*H)	600/800*1200*2000/2200mm
Cabinet load bearing	1000kg/1500kg/2000kg
Enter UPS and Battery System	
UPS rated capacity	The maximum integrated UPS power distribution is 150KVA; Independent UPS can reach more than 200KVA; Single module 20KVA/25KVA/40KVA/50KVA; Adopt standard cabinet body
Frequency range	40--70HZ
Input voltage range	300--460Vac
Output voltage	380/400/415VAC, 50--60Hz, 3Ph+N+PE
Input power factor	≥0.99
Output power factor	1
Battery cupboard	Adopt cabinet battery cabinet with heat dissipation module
Backup time	Configure 15min, 30min or other customization according to the actual load
Number of batteries	A total of 16-40 12V lead-acid batteries can be installed in the battery cabinet unit
Battery monitoring	Configure according to the actual UPS, and support to monitor the internal resistance, voltage and temperature of each battery
Into the precision column head cabinet	
Input voltage range	360-415Vac
Distribution output	The maximum support of input switch is 630A
Input mode	1/2-way MCCB; PC/CB ATS
Output mode	IT load power supply, air conditioning load power supply, other power load power supply, etc.
Examine	Support measuring voltage, current, open state, real power, active power and electric energy
Report an emergency	Support main circuit overvoltage and undervoltage alarm, overcurrent alarm, frequency abnormality alarm, single-circuit power-off alarm, three-phase unbalance alarm, etc.
Interrow air conditioning	
System cooling capacity	25KW/40KW
Sensible heat ratio	0.99
Internal dimensions (W*D*H)	300*1200*2000mm(25kW), 600*1200*2000mm(40kW)
Refrigerant	R410A
Monitoring unit	
Man-machine interface	10.1/13.3/15.6/19/21-inch touch screen
Monitoring category	Temperature and humidity, smoke, temperature, camera, sound and light alarm, SMS alarm, water leakage monitoring, etc.
Monitoring collection	The system includes integrated monitoring panel/standard 1U rack monitoring host, supporting UPS, air conditioning, battery, and distribution cabinet monitoring Support temperature, humidity, smoke, input/output switch value and other environmental monitoring; Supports dual network ports and data export Supports SD card/hard disk expansion, network monitoring through northbound interfaces, access control system, video system monitoring, and dual power supply expansion

Ordering Information

MOC- XXX XX - XX XX - XX XX - XX XX

1 2 3 4 5 6 7 8

1. Cabinet Type and Quantity		3. Column Header Tank and Quantity	
1: 600*1000*2000, 42U	01: Single cabinet	1: Ordinary type	0: 0 set
2: 600*1100*2000, 42U	02: Dual cabinet	2: Precision column head cabinet	1: 1 set
3: 600*1200*2000, 42U	03: Triplex cabinet	3: Integrated UPS cabinet	2: 2 set
4: 600*1000*2200, 47U	04: Quadruple cabinet		
5: 600*1100*2200, 47U		
6: 600*1200*2200, 47U	48: forty-eight cabinet		
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			
2. Channel Type			
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: 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: 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: 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: 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: 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.		
4. UPS Capacity and Quantity		5. Uninterrupted Power Supply Time and Battery Installation	
0: Without UPS	0: 0 set	0: Without battery	1: battery pack
1: modular 30KVA	1: 1 set	1: 15 minutes	2: Battery cabinet
2: modular 40KVA	2: 2 set	2: 30 minutes	3: Battery rack
3: Modular 50KVA	3: 3 set	3: 60 minutes	
4: Modular 60KVA	4: 4 set	4: 120 minutes	
5: Modular 80KVA			
6: Modular 90KVA			
7: Modular 100KVA			
8: Modular 120KVA			
9: Modular 150KVA			
A: modular 200KVA			
B: modular 300KVA			
C: high frequency tower 30KVA			
D: High frequency tower 40KVA			
E: high frequency tower 50KVA			
F: high frequency tower 60KVA			
G: high frequency tower 80KVA			
H: high frequency tower 100KVA			
I: high frequency tower 120KVA			
J: high frequency tower 150KVA			
K: high frequency tower 200KVA			
L: high frequency tower 300KVA			

6. Type and Quantity of Air Conditioner		7.PDU Standard and Quantity Per Cabinet	
1: 12.5KW air-cooled air conditioner between trains	0: 0	A: 12 outlet intelligent PDU, 16A, IEC 320 C13	0: 0 set
2: 25KW air-cooled air conditioner between trains	1: 1	B: 12 outlets intelligent PDU, 16A, IEC 320 C13 Smart	1: 1 set
3: 40KW air-cooled air conditioner between trains	2: 2	C: 24 outlets intelligent PDU, 16A, IEC 320 C13	2: 2 set
4: 50KW air-cooled air conditioner between trains	3: 3	D: 24 outlets intelligent PDU, 16A, IEC 320 C13 Smart	
5: Room-level 12.5KW air-cooled air conditioner	4: 4	E: 12 outlet PDU, 16A, IEC 320 C13	
6: Room-level 20KW air-cooled air conditioner	6: 6	F: 12 outlet PDU, 16A, IEC 320 C13 Smart	
7: Room-level 25KW air-cooled air conditioner		G: 24 outlet PDU, 16A, IEC 320 C13	
8: Room-level 30KW air-cooled air conditioner		H: 24 outlet PDU, 16A, IEC 320 C13 Smart	
9: Room-level 35KW air-cooled air conditioner		I: 24 outlet PDU, 32A, IEC 320 20°C13+4°C19	
A: Room-level 40KW air-cooled air conditioner		J: 24 outlet PDU, 32A, IEC 320 20°C13+4°C19 Smart	
B: Room-level 50KW air-cooled air conditioner		K: 24 outlet PDU, 16A, IEC 320 20°C13+4°C19	
C: Room-level 60KW air-cooled air conditioner		L: 24 outlet PDU, 16A, IEC 320 20°C13+4°C19 Smart	
D: Room-level 70KW air-cooled air conditioner		M: 24 outlet PDU, 32A, IEC 320 C13	
E: Room-level 80KW air-cooled air conditioner		N: 24 outlet PDU, 32A, IEC 320 C13 Smart	
F: Room-class 90KW air-cooled air conditioner		O: 24 outlet PDU, 32A, IEC 320 C19	
G: Room-class 100KW air-cooled air conditioner		P: 24 outlet PDU, 32A, IEC 320 C19 Smart	
		Q: 24 outlet PDU, 32A, IEC 320 18°C13+6°C19	
		R: 24 outlet PDU, 32A, IEC 320 18°C13+6°C19 Smart	
		S: 12 outlet PDU, 32A, IEC 320 9°C13+3°C19	

8. Dynamic Environment Monitoring System and Quantity		
1: No display host, collecting the UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, access control, intelligent PDU, and northbound interface		0: None
2: No display host, collecting the UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, and northbound interface		1: 1ea
3: Monitors the integrated screen, collecting the UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, access control, intelligent PDU, and northbound interface		2: 2ea
4: Monitors the integrated screen, collecting the UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, and northbound interface		

Outdoor Data Center

Product Introduction

Base station outdoor cabinets provide special solutions for various communication base station, such as big base station, distributed base station. It can be applied in different environments. Main types: aluminum assembled outdoor cabinets, sheet metal welded outdoor cabinets, and sheet metal assembled outdoor cabinets.

The outdoor cabinet provides a miniaturized and highly integrated MINI machine room for modern stations. It has a series of advantages that cannot be replaced by traditional machine rooms and has been widely used in communication construction. The cabinet can be flexibly customized according to different use requirements and can fully meet the installation and use of different environments. In the temperature control part, air conditioners, heat exchangers, all-in-one air conditioners and fans can be used to meet the temperature control requirements.

Application

Mountaintops, plazas, rooftops, railway sides, highways, and other remote areas that require wireless coverage.



Technical Parameters

Item	Outdoor Data Center
Height Unit (customizable)	37U
Cabinet size W*D*H(mm)	900 x 900 x 2100
Static Load	Up to 2000kg
Color	RAL7035
Structure Composition	Welding framework/ Color steel sandwich board, cabinet seal design
LED lighting	The indicator status is linked to the door panel status
Front Door	Toughened glass door with mechanical lock or smart lock
Rear Door	None
Safety Standard	RoHS
IP Level	IP55
Air Conditioner Capacity	1.5kw

Item	Outdoor Data Center
Air Conditioner Input Power	600w
Power System Size	482*350*5U
Power System Capacity	DC-48V 200A
Single Module Capacity	DC-48V 50A
Number of Fully Configured Modules	1~4 Pcs
Battery Capacity	DC51.2 100Ah/DC51.2 200Ah
Battery Backup	On-demand selection
Monitoring Collection	Standard 1U rack monitoring host, support temperature, humidity, smoke, input/output switch value and other environmental monitoring; Northbound network monitoring

Ordering Information

OC- X X X - X X X X X
1 2 3 4 5 6 7 8 9

Category	1. First Cabinet	2. Second Cabinet	3. Third Cabinet
OC: Outdoor cabinet	1: Combination 2: Equipment 3: Battery	0: NA 1: Combination 2: Equipment 3: Battery	0: NA 1: Combination 2: Equipment 3: Battery
4. Size	5. Temperature Control System	6. Dynamic environmental system	7. Switching power supply
1: 2100*905*905 mm 2: 1700*905*905mm 3: 1300*950*950mm 4: 600*746*615 mm 5: 700*700*1350 mm 6: 800*1000*2100 mm 7: 1530*905*905 mm 8: 700*700*2150 mm 19' 9: 800*600*2000 mm 19'+21' A: 700*700*2150 mm 21' B: 700*700*2150 mm 19'+21' C: 650*650*2000mm D: 700*700*2000mm E: 600*600*2000mm F: 1100*900*900 mm G: 2000x2100x1200mm H: 2000x2100x2322mm	1: 1.5KW Air Conditioner 2: Heat Exchanger 3: Air conditioning heating machine 4: 1KW Air Conditioner 5: 3.5KW Air Conditioner 6: 12.5KW Air Conditioner 8: EC fan*2 9: 3kW DC48V Air Conditioner A: 1KW DC48V Air Conditioner B: 9.3 AC220V Air conditioner	0: NA 1: Contains 1U acquisition host without monitor 2: Includes monitoring appliance (monitor)	0: NA 1: 200A switching power supply sub rack 2: 300A switching power supply sub rack 3: DC48V power system 4: 3KVA-UPS 5: 1KVA-UPS 6: 6KVA-UPS 7: 15KVA-UPS 8: 600A switching power supply sub rack 9: 400A switching power supply sub rack
8. Rectifier Module	9. Battery		
0: NA 1: 50A rectifier module -3PCS 2: 50A rectifier module -4PCS 3: 50A rectifier module -6PCS 4: 50A rectifier module -5PCS 5: 50A rectifier module -2PCS 6: 3KW rectifier module -3PCS+2kVA Inverter module -2PCS 7: 4kW rectifier module -3PCS	0: NA 1: DC12V 150AH batteries 8PCS 2: DC51.2V 100AH lithium batteries 2PCS 3: DC12V 200AH batteries 4PCS 4: DC12V 9AH batteries 12PCS 5: DC51.2V 100AH lithium batteries 1PCS 6: DC51.2V 100AH lithium batteries 3PCS 7: DC12V 24AH batteries 6PCS 8: DC12V 65AH batteries 4PCS 9: DC12V 38AH batteries 16PCS A: DC51.2V 150AH batteries 2PCS B: DC51.2V 50AH batteries 2PCS C: DC192V 50AH batteries 1PCS D: DC192V 17AH batteries 16PCS E: DC12V 100AH batteries 4PCS F: DC51.2V 100AH lithium batteries 4PCS G: DC12V 65AH batteries 16PCS H: DC12V 38AH batteries 16PCS		

Container Data Center

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 containerized design allows for quick and easy installation, ensuring fast deployment of user services while avoiding construction-related challenges. The design of the container itself fully meets the outdoor operation conditions, not only with rain prevention, sunscreen, salt spray and other protective measures, the 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 IoT 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.



Container Data Center

Type	Parameter Specification
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.

Ordering Information

CDC- XXX XX - XX XX - XX XX - XX XX

1 2 3 4 5 6 7 8

1. Cabinet Specifications and Quantity	3. Type and Quantity of Precision Distribution Cabinet
1: 600*1000*2000, 42U 2: 600*1100*2000, 42U 3: 600*1200*2000, 42U 4: 600*1000*2200, 47U 5: 600*1100*2200, 47U 6: 600*1200*2200, 47U 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 D: 600*1100*2000, 42U*28set+800*1100*2000, 42U*2set E: 600*1000*2000, 42U*8set+800*1000*2000, 42U*2set	01: 1pc 02: 2pcs 03: 3pcs 04: 4pcs ... 48: 48pcs
	1: General Distribution Cabinet 2: Precision Distribution Cabinet 3: Integrated UPS Cabinet
	0: NA 1: 1pc 2: 2pcs 3: 3pcs
2. Channel Type	
1: Single side channel 2: Two side channel	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: 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: 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: 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: 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: 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.
4. UPS Capacity and Quantity	5. Uninterrupted Power Supply Time and Battery Installation
0: Without UPS 1: modular 30KVA 2: modular 40KVA 3: Modular 50KVA 4: Modular 60KVA 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	0: Without battery 1: 15 minutes 2: 30 minutes 3: 60 minutes 4: 120 minutes
	1: Battery pack 2: Battery cabinet 3: Battery rack

6. Type and Quantity of Air Conditioner		7. PDU Standard and Quantity Per Cabinet	
1: 12.5KW air-cooled air conditioner between trains	0: 0	A: 12 outlet intelligent PDU, 16A, IEC 320 C13	0: 0 set
2: 25KW air-cooled air conditioner between trains	1: 1	B: 12 outlets intelligent PDU, 16A, IEC 320 C13 Smart	1: 1 set
3: 40KW air-cooled air conditioner between trains	2: 2	C: 24 outlets intelligent PDU, 16A, IEC 320 C13	2: 2 set
4: 50KW air-cooled air conditioner between trains	3: 3	D: 24 outlets intelligent PDU, 16A, IEC 320 C13 Smart	
5: Room-level 12.5KW air-cooled air conditioner	4: 4	E: 12 outlet PDU, 16A, IEC 320 C13	
6: Room-level 20KW air-cooled air conditioner	4: 4	F: 12 outlet PDU, 16A, IEC 320 C13 Smart	
7: Room-level 25KW air-cooled air conditioner	6: 6	G: 24 outlet PDU, 16A, IEC 320 C13	
8: Room-level 30KW air-cooled air conditioner		H: 24 outlet PDU, 16A, IEC 320 C13 Smart	
9: Room-level 35KW air-cooled air conditioner		I: 24 outlet PDU, 32A, IEC 320 20*C13+4*C19	
A: Room-level 40KW air-cooled air conditioner		J: 24 outlet PDU, 32A, IEC 320 20*C13+4*C19 Smart	
B: Room-level 50KW air-cooled air conditioner		K: 24 outlet PDU, 16A, IEC 320 20*C13+4*C19	
C: Room-level 60KW air-cooled air conditioner		L: 24 outlet PDU, 16A, IEC 320 20*C13+4*C19 Smart	
D: Room-level 70KW air-cooled air conditioner		M: 24 outlet PDU, 32A, IEC 320 C13	
E: Room-level 80KW air-cooled air conditioner		N: 24 outlet PDU, 32A, IEC 320 C13 Smart	
F: Room-class 90KW air-cooled air conditioner		O: 24 outlet PDU, 32A, IEC 320 C19	
G: Room-class 100KW air-cooled air conditioner		P: 24 outlet PDU, 32A, IEC 320 C19 Smart	
		Q: 24 outlet PDU, 32A, IEC 320 18*C13+6*C19	
		R: 24 outlet PDU, 32A, IEC 320 18*C13+6*C19 Smart	
		S: 12 outlet PDU, 32A, IEC 320 9*C13+3*C19	

8. Dynamic Environment Monitoring System and Quantity	
1: No display host, collects UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, access control, intelligent PDU, and northbound interface	0: None
2: No display host, collect UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, and northbound interface	1: 1ea
3: Monitors the integrated screen, collecting the UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, access control, intelligent PDU, and northbound interface	2: 2ea
4: Monitors the integrated screen, collecting the UPS, power distribution module, air conditioner, water leakage, temperature and humidity, smoke sensor, and northbound interface	

Electromagnetic Shield Cabinet

Product Introduction

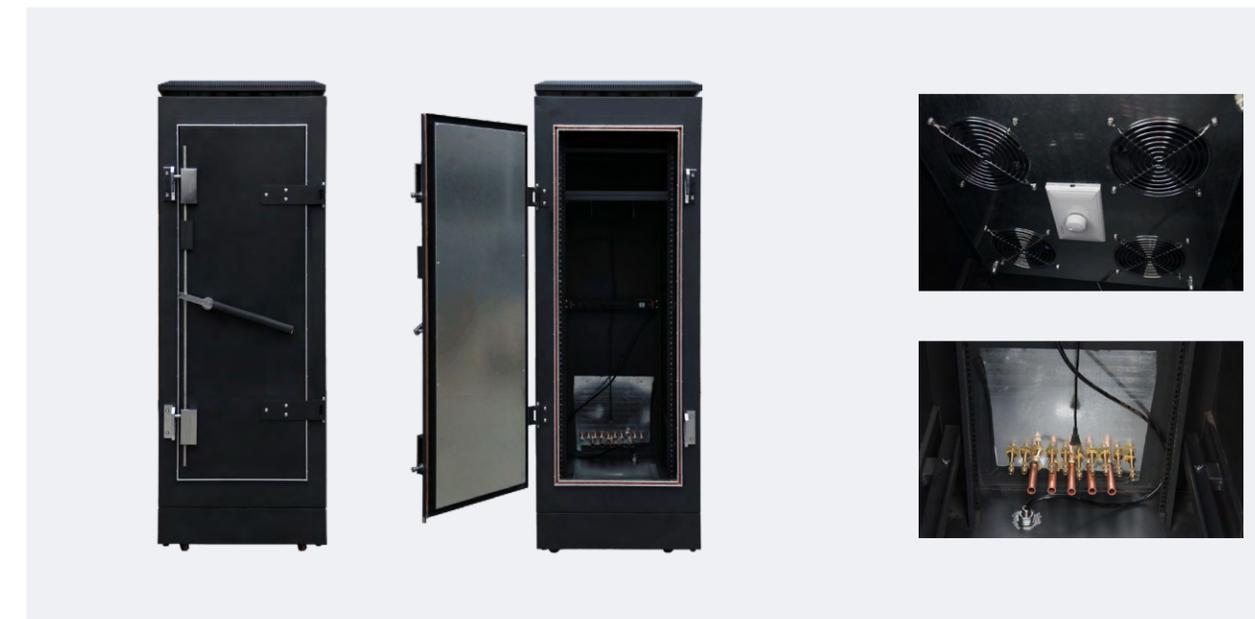
Electromagnetic shield cabinets can be used to place computers, which can prevent electromagnetic waves from harming the human body, effectively inhibit electromagnetic information leakage of computers, and prevent strong external electromagnetic harassment from affecting the normal operation of computers.

This structure complies with the 19-inch international standard, offering excellent universality and strong compatibility. It is suitable for electromagnetic shielding in network and communication systems, large-scale computer room servers, switches, routers, and other network equipment. The product's dimensions and internal structure can be customized according to user requirements.

Working Principle of the shielding cabinet: When electromagnetic waves strike a metal plate with air on both sides, part of the energy is reflected, resulting in reflection loss. The portion of the transmitted wave that is attenuated as it propagates through the metal plate is called absorption loss. When the wave reflects back from the second interface to the first, it undergoes repeated reflections until all energy is dissipated and transmitted.

Application

It is mainly used for electromagnetic information security protection of network information equipment such as computers, network servers, and switches with higher classified levels, to prevent leakage of classified electromagnetic information to the external space, to prevent malicious interference and attack of external electromagnetic waves.



Technical Parameters

Item	Electromagnetic Shield Cabinet
Height unit (customizable)	37U
Cabinet size W*D*H (mm)	700 x 980x 2000
Power	AC220V 16A
Shielding Function	Class C
Electromagnetism	14KHz≥70dB 150KHz≥95dB
Electric Field	200KHz-50MHz≥100dB
Plane Wave	50MHz-1GHz≥100dB
Micro-Wave	1GHz-10GHz≥95dB
Applicable Environment	-25°C-+70°C
Relative Humidity	>85%
Cable Waveguide	10 pcs
Optical Fiber Waveguide	5 pcs

Item	Electromagnetic Shield Cabinet
Filter	16A, 1 pcs
Fan	8 pcs
Waveguide Window	300*300mm
Weight	About 350kg
Static load	Up to 2000kg
Color	Black
Structure composition	Welding framework, cabinet seal design as a whole
IP level	IP5X
LED lighting	The indicator status is linked to the door panel status
Front door	Toughened glass door with mechanical lock or smart lock
Rear door	None
Safety standard	RoHS

Ordering Information

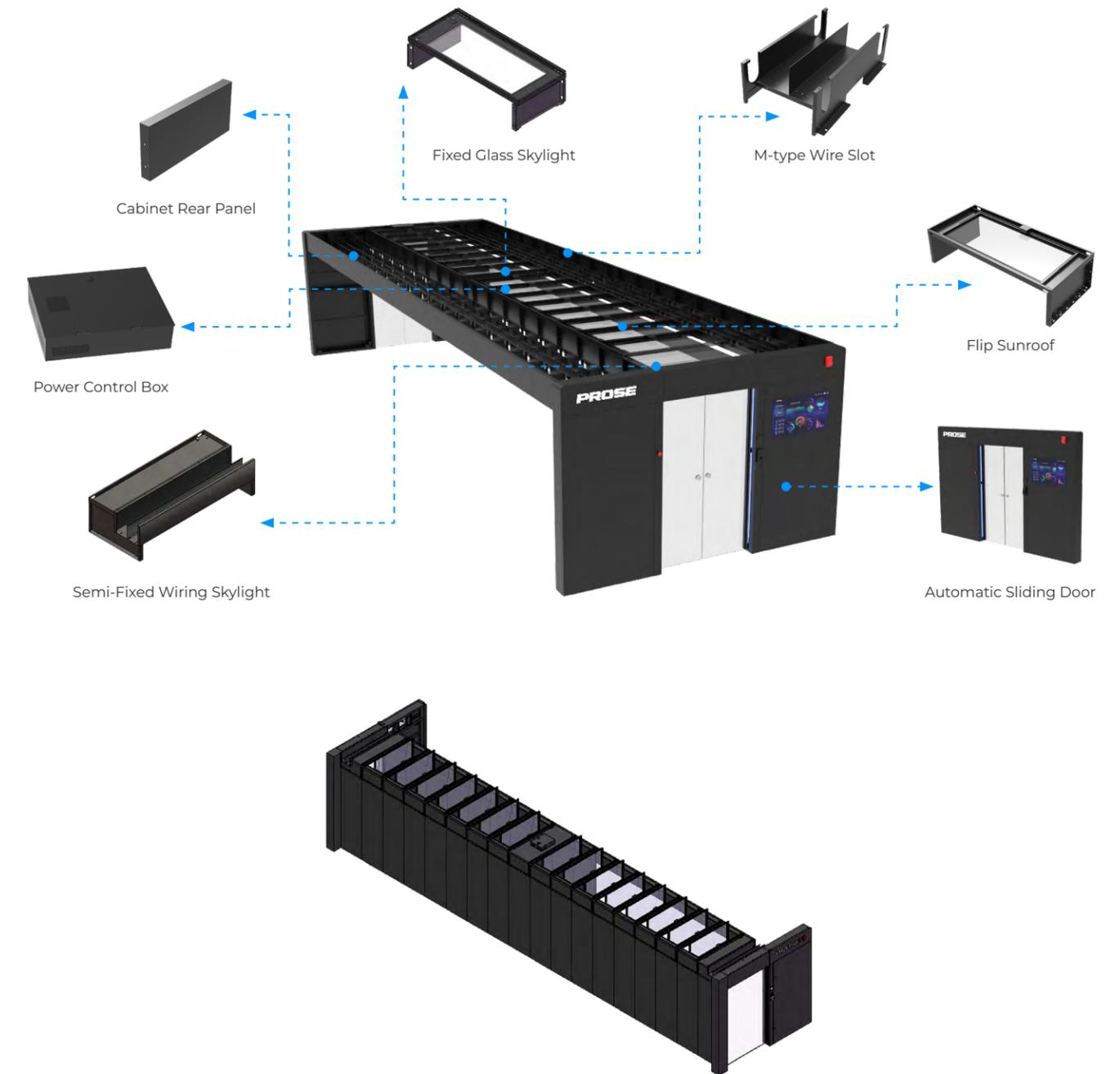
ESC- X X X - X X X X X X
1 2 3 4 5 6 7 8 9

Category	1. Width Size	2. Depth Size	3. Height Size
ESC-Electromagnetic shield cabinet	7: 700 9: 900	10: 1000 11: 1100 12: 1200	22: 22U 37: 37U 42: 42U
4. Dynamic Environmental System	5. Temperature Control System	6. Switching Power Supply	7. Rectifier Module
0: NA 1: Contains 1U acquisition host without monitor 2: Includes monitoring appliance (monitor)	1: Air Conditioner 2: Heat Exchanger 3: Air conditioning heating machine	0: NA 1: 200A switching power supply sub rack 2: 300A switching power supply sub rack 3: DC48V power system 4: 3KVA-UPS 5: 1KVA-UPS	0: NA 1: 50A rectifier module -3PCS 2: 50A rectifier module -4PCS 3: 50A rectifier module -6PCS 4: 50A rectifier module -5PCS 5: 50A rectifier module -2PCS
8. Battery	9. PDU		
0: NA 1: DC12V 150AH batteries 8PCS 2: DC51.2V 100AH lithium batteries 2PCS 3: DC12V 200AH batteries 4PCS 4: DC12V 9AH batteries 12PCS 5: DC51.2V 100AH lithium batteries 1PCS 6: DC51.2V 100AH lithium batteries 3PCS 7: DC12V 24AH batteries 6PCS	A: 12 outlet PDU, 16A, IEC 320 C13 B: 12 outlet PDU, 16A, IEC 320 C13 Smart C: 24 outlet PDU, 16A, IEC 320 C13 D: 24 outlet PDU, 16A, IEC 320 C13 Smart E: 24 outlet PDU, 32A, IEC 320 20*C13+4*C19 F: 24 outlet PDU, 32A, IEC 320 20*C13+4*C19 Smart G: 24 outlet PDU, 16A, IEC 320 20*C13+4*C19 H: 24 outlet PDU, 16A, IEC 320 20*C13+4*C19 Smart J: 24 outlet PDU, 32A, IEC 320 C13 K: 24 outlet PDU, 32A, IEC 320 C13 Smart L: 24 outlet PDU, 32A, IEC 320 C19 M: 24 outlet PDU, 32A, IEC 320 C19 Smart N: 24 outlet PDU, 32A, IEC 320 18*C13+6*C19 O: 24 outlet PDU, 32A, IEC 320 18*C13+6*C19 Smart P: 12 outlet PDU, 32A, IEC 320 9*C13+3*C19 Q: 12 outlet PDU, 32A, IEC 320 9*C13+3*C19 Smart		

Cooling Channel Product

Product Introduction

The working principle of the closed cooling channel is to isolate the cold air supply from the hot exhaust air and to concentrate the cooling on the air intake of the equipment. This process is known as concentrated cooling. It is achieved by installing server cabinets with their air intakes facing the cooling channel. This type of cooling channel prevents the mixing of hot and cold air, which means that less energy is required to maintain the system at a controlled and consistent temperature. The cooling channel consists of flip skylights, fixed glass skylights, automatic sliding doors, M-type slot, cabinet rear panel, and so on.



Reference Standard

Comply with EIA-310-E, IEC297-2 and DIN41491; PART1, DIN41494; PART7, GB/T3047.2-92 standard; Compatible with ETSI standard.

Components

1) Automatic Sliding Door

Description: The automatic sliding door frame is made of cold-rolled steel plate, with a modular design, solid structure, and is reliable and safe. The door can be manually opened by a button or remote control and can close automatically. The door frame has a reserved installation position for the access control system. The inside of the door frame is equipped with a human body sensor, and the door has an anti-pinch function when it is closing and opening. The bottom of the door is in contact with the ground, and the door edge is attached with soft buffer material to prevent air leakage when the door is closed.

The door opens by sliding the glass embedded in the steel frame; the glass thickness is not less than 10mm, with a light transmittance of 90%; the sealing performance between the door and the frame can effectively inhibit airflow. Both hot and cold aisles are equipped with high-quality sliding doors, sliding door hanging rails, and heavy-duty nylon silent pulleys, ensuring that the cold aisle can be easily opened and closed by sliding.

Usage: Used for the security door entrance and exit at both ends of the cold aisle.

Color: Black RAL9005



Item	Automatic Sliding Door
Size (mm)	3600(W) x 200(D) x 2300(H)
Corridor Width(mm)	1200
Weight	About 220kg
Color	Black, RAL9005
Frame Material Thickness	SPCC, ≥2.0mm
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
Door Material	Transparent Tempered Glass, 10mm thick; light transmittance of the glass is 90%
Door Opening Method	Double doors, sliding open to both sides
Door Opening Function	Ability to keep door open when service is required in cold air enclosure; Door opens manually by button or remote, with the ability to close automatically
Safety Feature	Anti-pinch when opening and closing the door
Fingerprint lock installation area	Reserve installation positions for multifunctional access control systems on the frame
Salability	The door base contacts the floor, the door edge is fitted with soft cushioning material to prevent air leakage when the door is closed
Alarm	Audible and Visual Alarm; Alarm Light; When a fire alarm is triggered, the alarm will sound and the lights will flash, and the alarm light will turn red; At the same time, the sliding door will open for 20s to facilitate the evacuation of personnel inside

2) Semi-Fixed Wiring Skylight

Description: Made of cold-rolled steel plate, fixed through modular installation, with a sturdy, reliable, and safe structure.

Usage: The 300mm wide fixed skylight is used for installing surveillance cameras, temperature and humidity sensors, smoke detectors, and other equipment; the 300mm wide wiring channel is for the overhead crossing wiring of strong and weak electrical lines in the passage.

Surface Treatment: degreasing, pickling, phosphoric acid, powder coating.

Color: Black RAL9005



Item	Semi-Fixed Wiring Skylight
Size (mm)	600(W) x 1400(D) x 350(H)
Corridor Width(mm)	1200
Weight	About 40kg
Color	Black, RAL9005
Material Thickness	SPCC, ≥1.5mm
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
Function	The 300mm wide fixed skylight is used for installing surveillance cameras, temperature and humidity sensors, smoke detectors, and other equipment; the 300mm wide wiring channel is for the overhead crossing wiring of strong and weak electrical lines in the passage
Lighting Fixture	Lighting fixtures installed on the inside of the skylight, with a brightness greater than 300lux, and the lights can be turned on via motion sensor

3) Flip Skylight

Usage Instructions: Made of cold-rolled steel plate + white PC board, with a modular design for easy installation and disassembly, featuring a sturdy and reliable structure. Flip skylight is embedded with a white PC board, with a PC thickness of ≥4mm. The light transmittance of the PC is 85%. The flip skylight must be equipped with an electromagnetic lock, which automatically flips down when there is a power outage, fire alarm, or upon receiving a fire signal, thereby effectively extinguishing the fire; the opening angle of the top plate after flipping is ≥88 degrees. The skylight and its installation accessories match the width of the cabinet. Flip skylight will not collide with other equipment when rotating.

Purpose: Used for cold aisle skylights, linked with fire signal control.

Surface Treatment: Degreasing, pickling, phosphating, powder coating.

Color: Black RAL9005



Item	Flip Skylight
Size (mm)	600(W) x 1400(D) x 350(H)
Corridor Width(mm)	1200
Sunroof Deflection Angle	≥88°
Area Ratio of Skylight to Roof	≥70%
Weight	About 60kg
Sheet Metal Color	Black, RAL9005
Material Thickness	SPCC+PC; SPCC, ≥1.5mm; The white PC board is 4mm thick; light transmittance of the PC is 85%
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
Rotation Mode	The ceiling panel system operates on the principle of self-tilting. Each ceiling panel has an impact point to actively operate the individual ceiling panel
Ceiling panels are designed to	Consistent with the width of the cabinet.; Allow easy installation and removal
Lighting Fixture	Lighting fixtures installed on the inside of the skylight, with a brightness greater than 300lux, and the lights can be turned on via motion sensor

4) Fixed Glass Skylight

Instruction: The cold-rolled steel plate is adopted, the thickness of the material is greater than or equal to 1.2mm, and it is fixed by modular installation, with firm, reliable and safe structure.

The skylight frame is embedded with glass, and the thickness of the glass is not less than 4mm, which meets the standard of GB15763.2 -2005 Safety Glass for Buildings.

Usage: used for sealing the top of cold passage.

Surface Treatment: degreasing, pickling, phosphoric acid, powder coating.

Color: Black RAL9005/ Gray RAL7035



Item	Fixed Glass Skylight
Size (mm)	600(W) x 1400(D) x 350(H)
Corridor Width(mm)	1200
Weight	About 35kg
Color	Black, RAL9005
Material Thickness	SPCC, ≥1.5mm; Glass, 5mm
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
Function	Designed for installing surveillance cameras, temperature and humidity sensors, smoke detectors, and other equipment in cold aisles
Lighting Fixture	Lighting fixtures installed on the inside of the skylight, with a brightness greater than 300lux, and the lights can be turned on via motion sensor

5) Fixed Steel Skylight

Description: Made of SPCC, with a thickness of ≥1.5mm, consistent with the width of the cabinet, modular installation for a sturdy, reliable, and safe structure.

Usage: Designed for installing surveillance cameras, temperature and humidity sensors, smoke detectors, and other equipment in cold aisles.

Surface Treatment: Degreasing, pickling, phosphating, and powder coating.

Color: Black RAL9005



Item	Fixed Steel Skylight
Size (mm)	600(W) x 1400(D) x 350(H)
Corridor Width(mm)	1200
Weight	About 30kg
Color	Black, RAL9005
Material Thickness	SPCC, ≥1.5mm
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
Function	Designed for installing surveillance cameras, temperature and humidity sensors, smoke detectors, and other equipment in cold aisles
Lighting Fixture	Lighting fixtures installed on the inside of the skylight, with a brightness greater than 300lux, and the lights can be turned on via motion sensor

6) Cabinet Rear Panel

Description: Made with SPCC, thickness ≥1.2mm, matching the width of the cabinet, modular installation for fixation, ensuring a sturdy, reliable, and safe structure.

Usage: Designed for shielding the top and rear of the cabinet.

Surface Treatment: Degreasing, pickling, phosphating, and powder coating.

Color: Black RAL9005



Item	Cabinet Rear Baffle
Size (mm)	600(W) x 50(D) x 350(H)
Weight	About 5kg
Color	Black, RAL9005
Material Thickness	SPCC, ≥1.2mm
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
Function	Designed for shielding the top and rear of the cabinet

7) Power Control Box

Usage: It is used to control the power supply of skylight, access door and lighting, connect fire signal, and open the skylight and access door through the fire alarm information.

Color: Black RAL9005



Item	Power Control Box
Size (mm)	400(W) x 300(D) x 100(H)
Weight	About 13kg
Color	Black, RAL9005
Material Thickness	SPCC, ≥1.2mm
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
Function	Open the skylight and access the door through the fire alarm information

8) Frame

Usage: Adopting a metal structure, used for supporting positions in inorganic cabinets.

Color: Black RAL9005



Item	Frame
Size (mm)	600(W) x 50(D) x 2000(H)
Weight	About 23kg
Color	Black, RAL9005
Material Thickness	SPCC, ≥1.2mm
Meet Standard	ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92
Function	In the passage where cabinets cannot be placed, frames are used instead to support the cold aisle skylight and for sealing purposes

Ordering Information

CC - XXXXX x XXXX x XXXX - X X X X X X X X
 1 2 3 4 5 6 7 8 9 10 11

Product Type	1. Length	2. Width	3. Height
CC: Cooling channel	12000: 12000mm	1200: 1200mm	2600: 2600mm
4. Channel Type	5. Flip Skylight	6. Fixed Steel Skylight	7. Type of Aisle Door
1: single row 2: double row	0: None 1: single flip 2: double flip	0: None 1: 1pc 2: 2pcs	0: None 1: Automatic sliding doors with door frames 2: Automatic sliding doors without door frames 3: Manual sliding doors without door frames 4: Manual pivot doors without door frames
8. Power Control Box	9. M-Type Slot	10. Cabinet Rear Panel	11. Frame Quantity
0: None 1: 1pc	0: None 1: Yes	0: None 1: Yes	0: None 1: 1pc 2: 2pcs 3: 3pcs 4: 4pcs

Power Distribution Unit

Application

PROSE PDU (Power Distribution Unit) provides various series of specifications with different functions, installation methods and plug combinations. It can provide suitable rack power distribution solutions for different power environments. PDU can make the power distribution in the cabinet more orderly, reliable, safe and professional. PDU also can make the maintenance of the power supply in the cabinet more convenient.

PROSE provides three series of PDU products: standard type, intelligent basic type and intelligent monitoring type. The standard PDU is a multi-channel economical and practical power product which sockets include GB1002, IEC320 C13, IEC320 C19 etc. Intelligent basic type can read power bus current, voltage and other information remotely. Intelligent monitoring type can read power bus current, separate current by each channel and separate on and off settings.

Outline



Performance

- Modular design, high compatibility and extensibility.
- Socket diversified, various sockets of different standard to meet the needs of different customers.
- Various power input, adopt GB plug, industrial coupler and other standard power input.
- Overload protection switch, prevent load short circuit and overload protection.
- Strong applicability, suitable for a variety of installation methods.

Intelligent PDU Characteristic

- Lightning protection, hot swap meter and smart meter protection are optional.
- Support Ethernet or RS485 communication protocol for remote data exchange.
- The panel adopts an integrated stamping structure to ensure the excellent mechanical strength and internal electrical safety of the panel.
- The internal electrical connection wire is wire-coppered and has a single point isolation function.
- The PDU is equipped with a cable connector and a self-wiring module to facilitate the connection of the input cable.
- Meet a variety of power output formats and output quantities, optional monitoring and control function modules.
- The core control main module adopts hot-swap design to ensure the maintainability and robustness of the product.
- Support wide range voltage power input, Single-phase: 200V~240V; Three-phase: 350V~410V

Socket Type



Plug Type



Ordering Information

PU X X - X X X X - X X X
1 2 3 4 5 6 7 8 9 10

1. Category	2. Type	3. Power Input	4. Socket Qty	5. Socket Type
PU: PDU	1: Standard 2: Input monitoring 3: Input & Output monitoring	1: 220VAC/16A 2: 220VAC/32A 3: 110VAC/16A 4: 110VAC/32A Input 5: 380VAC/32A 6: 220VAC/10A 7: 250VAC/13A	1: 12 ports 2: 24 ports 3: 18 ports 4: 42 ports 5: 5 ports 6: 6 ports 7: 30 ports 8: 8 ports 9: 7 ports A: 16 ports	1: GB1002/10A 2: GB1002/16A 3: IEC320 C13, 10A 4: IEC320 C19, 16A 5: IEC320 8*C13/10A+4*C19/16A 6: IEC320 20*C13/10A+4*C19/16A 7: IEC320 14*C13/10A+4*C19/16A 8: IEC320 18*C13/10A+6*C19/16A 9: IEC320 36*C13/10A+6*C19/16A A: IEC320 24*C13/10A+6*C19/16A B: IEC320 20*C13/16A+4*C19/16A C: UK 13A D: IEC320 10* C13 with lock, 2* C19 with lock
6. Functional Module	7. Color	8. Input Plug	9. Cable Length	10. Special Feature
1: Lightning Protection 2: Hot Plug Tester 3: Intelligent Tester 4: Lightning Protection/ Hot PlugTester 5: Lightning Protection/ Hot Plug Tester/ Intelligent Tester 6: Switch 7: Air switch	1: Black 2: Yellow	0: Null 1: GB1002/10A 2: GB1002/16A 3: IEC320 C14 4: IEC320 C20 5: UK, BS1363 6: GER DIN49441 7: USA NEMA5-15P 8: USA NEMA5-20P 9: EPIC 16A A: EPIC 32A B: EPIC 63A	0: 0m 1: 1m 2: 2m 3: 3m	H: Horizontal 19" V: Vertical

Precision Air Conditioner

F Series Room-Level Precision Air Conditioner

F series room-level precision air conditioner, with high efficiency and energy saving, safety and reliability, intelligent management, compact structure and exquisite craftsmanship, fully meets the cooling needs of modern data room.



Application

Data center computer room, communication computer room, computer room, UPS battery room and industrial control room in various industries such as finance, government, enterprise, energy, education, medical care, Internet, etc.

Characteristic

High Efficiency and Energy Saving

- Refrigeration system hierarchical design, intelligent adjustment of cooling capacity.
- High COP flexible scroll compressor, high precision electronic expansion valve.
- Efficient and low noise stepless speed regulation EC fan (sinkable design).
- Complete intelligent control system to ensure system dynamic.
- The optimal heat exchanger and air duct adopt CFD optimized design, high efficiency and low resistance heat and mass transfer.

Rich Functions

- Support voltage, frequency detection and over-voltage, over- and under-frequency protection functions.
- With advanced energy efficiency management, the number of technology and group control is up to 32 units, easy to network.
- Support fan speed detection, fan speed abnormal warning and fan fault detection functions.
- Support optional dual power redundant power distribution scheme and lightning protection function.
- Support optional rope-type water immersion and point-type water immersion sensor function.

High Reliability

- 365 days x 24 hours uninterrupted operation design.
- PTC electric heating, far infrared humidification, safe and reliable.
- Complete alarm protection and expert-level self-diagnosis function.

Intelligent Management

- Human-machine interface, humanized design of 7-inch large color touch LCD screen, one-button operation.
- Dynamic display of color images of components, temperature, and humidity trend curve display.
- Quick switch between Chinese and English system.

Easy Maintenance

- Real full frontal maintenance design, integrated direct connection design of fan and motor, no need to change the belt.
- Far-infrared humidifier, which can realize maintenance-free operation.

Space Saving

- Compact and modular design, saving the floor space and maintenance space of the unit to the greatest extent.
- It can be easily disassembled, transported, and assembled on site according to the module.
- The area/maintenance area of a single module is only 0.9m²/1.8m², and the cooling capacity per unit area can reach up to 70kW/m².

Alarm Protection

- Complete automatic protection and alarm function Expert-level fault self-diagnosis function.
- Comprehensive parameter detection and adjustment functions.
- Call self-start function, water leakage detection function.
- It has perfect anti-condensation control function and refrigerant leakage alarm function.

Strong Adaptability

- Wide range of cooling capacity.
- Meet the operating ambient temperature of -40~55°C.
- A variety of air supply and return methods, a variety of inlet and outlet pipe methods, and a variety of power supply systems are designed with long connecting pipes and high drop design.
- Providing customers with fast and flexible customized solutions.

Indoor AC Technical Parameters

Parameter	Model	25KW	30KW	35KW	40KW	45KW	50KW	60KW	70KW	80KW	90KW	100KW
Parameter air volume	m ³ /h	7500	9000	10500	11500	12000	15000	18000	21000	23000	24000	25600
Cooling capacity	kW	26.4	31.5	36.1	38.1	45.7	52.7	62.9	72.3	76.1	91.6	100.2
Sensible cooling capacity	kW	24.5	29.2	33.4	35.2	41.6	48.9	58.2	66.6	70.2	83.4	91.6
Electric heating	kW	6	6	6	6	6	9	9	9	9	9	9
Humidification amount	kg/h	4.5	4.5	4.5	4.5	4.5	6.5	6.5	6.5	6.5	6.5	6.5
Maximum load current FLA	A	32.12	38.20	41.05	41.05	48.97	59.74	71.92	77.60	77.60	93.44	93.44
Unit size	W mm	900	900	900	900	900	1800	1800	1800	1800	1800	1800
	D mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	H mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
Weight	kg	355	370	375	380	390	665	695	705	715	735	755
The outdoor unit	model	OU-40	OU-50	OU-50	OU-50	OU-70	OU-40	OU-50	OU-50	OU-50	OU-70	OU-70
	QTY	1	1	1	1	1	2	2	2	2	2	2
Dimensions of a single energy-saving module (W*D*H) mm	650*300*950											

Indoor AC Technical Parameters

Parameter	Model	OU-40	OU-50	OU-70	OU-80
Number of fans	tower	1	1	2	2
Unit size	W mm	1650	1650	2010	2860
	D mm	1100	1100	1100	1100
	H mm	1150	1150	1150	1150
Full load current	A	2.9	4.7	5.8	5.8
Weight	kg	158	168	210	256
Noise	dB	60	60	62	62

G Series Inrow Precision Air Conditioner

G series inrow precision air conditioner is energy efficient, safe, and reliable, intelligent management, compact in structure, exquisite in craftsmanship, ultra-high sensible heat ratio, and nearby cooling, which can fully meet the cooling needs of high heat density data room.



Application

Modular data center computer rooms, container data centers, high thermal density data centers, etc. in various industries such as finance, government, enterprises, energy, education, medical care, and the Internet.

Characteristic

High Efficiency and Energy Saving

- High-efficiency inverter compressor, intelligent adjustment of cooling capacity, stepless speed-adjustable fan, precise cooling and energy saving.
- The complete intelligent control system ensures the optimal system dynamics.
- The heat exchanger and air duct adopt CFD optimized design, and the heat and mass transfer with high efficiency and low resistance.
- Ultra-high sensible heat ratio to avoid repeated loss of humidification and dehumidification.

Rich Functions

- Support voltage, frequency detection and over-voltage, over- and under-frequency protection functions.
- With advanced energy efficiency management, the number of technology and group control is up to 32 units, easy to network.
- Support fan speed detection, fan speed abnormal warning and fan fault detection functions.
- Support optional dual power redundant power distribution scheme and lightning protection function.
- Support optional rope-type water immersion and point-type water immersion sensor functions.

High Reliability

- 365 days x 24 hours uninterrupted operation design.
- PTC electric heating, far infrared humidification, safe and reliable.
- Complete alarm protection and expert-level self-diagnosis function.

Intelligent Management

- Human-machine interface, humanized design of 7-inch large color touch LCD screen, one-button operation.
- Dynamic display of color images of components, temperature, and humidity trend curve display.
- Quick switch between Chinese and English system.

Easy Maintenance

- Real full frontal maintenance design, integrated direct connection design of fan and motor, no need to change the belt.
- Far-infrared humidifier, which can realize maintenance-free operation.
- Fan hot-swappable design, support online maintenance.

Space Saving

- Compact and modular design, saving the floor space and maintenance space of the unit to the greatest extent.
- It can be easily disassembled, transported, and assembled on site according to the module.

Alarm Protection

- Complete automatic protection and alarm function Expert-level fault self-diagnosis function.
- Comprehensive parameter detection and adjustment functions.
- Call self-start function, water leakage detection function.
- It has perfect anti-condensation control function and refrigerant leakage alarm function.

Strong Adaptability

- Wide range of cooling capacity.
- Meet the operating ambient temperature of -40~55°C.
- Long connecting pipe, high drop design.
- Can provide customers with fast and flexible customized solutions.

Indoor AC Technical Parameters

Parameter	Model	25KW	40KW	50KW
Air volume	m ³ /h	5000	8500	10500
Cooling capacity	kW	25.8	40	50
Sensible cooling capacity	kW	25.8	40	50
Electric heating	kW	3	6	
Humidification amount	kg/h	1.5	3	3
Maximum load current	A	28.2	40	
Unit size	W mm	300	600	600
	D mm	1100	1100	1200
	H mm	2000	2000	2000
Weight	kg	240	330	340
The outdoor unit		OU-40	OU-60	OU-70
Number of outdoor units		1	1	1

Outdoor AC Technical Parameters

Parameter	Model	OU-40	OU-60	OU-70
Number of fans	tower	1	2	2
Unit size	W mm	1650	2010	2010
	D mm	1100	1100	1100
	H mm	1150	1150	1150
Full load current	A	2.9	5.8	5.8
Weight	kg	158	196	210

Ordering Information

AC X X X X X - X X
1 2 3 4 5 6 7

Category	1. Texture	2. Refrigeration Method	3. Additional Functions
AC: Air conditioner	G: Inrow F: Room level	1: Air cooling 2: Water cooling 3: Chilled water 4: Indirect evaporative cooling	1: Single cold 2: Refrigeration electric heating 3: Constant temperature and humidity 4: Constant temperature and humidity (dual system)
4. Air Supply Direction	5. Power	6. Power	7. Outdoor Unit
1: Top, left, and right air discharge 2: Left and right air discharge 3: Horizontal air supply 4: Sinking air supply 5: Downward air supply 6: Upward air supply 7: Upward air supply (with hood)	1: 3.5kw 2: 6.5kw 3: 7.5kw 4: 12.5kw 5: 15kw 6: 20kw 7: 25kw 8: 30kw 9: 35kw A: 40kw B: 45kw C: 50kw D: 60kw E: 70kw F: 80kw G: 90kw H: 100kw	1: AC220V/50Hz 2: AC380V/50Hz	1: No outdoor unit 2: Including outdoor unit

PROSE Service

PROSE offers professional services that improve network design, reliability, scalability and efficiency.

Our service core competences include:

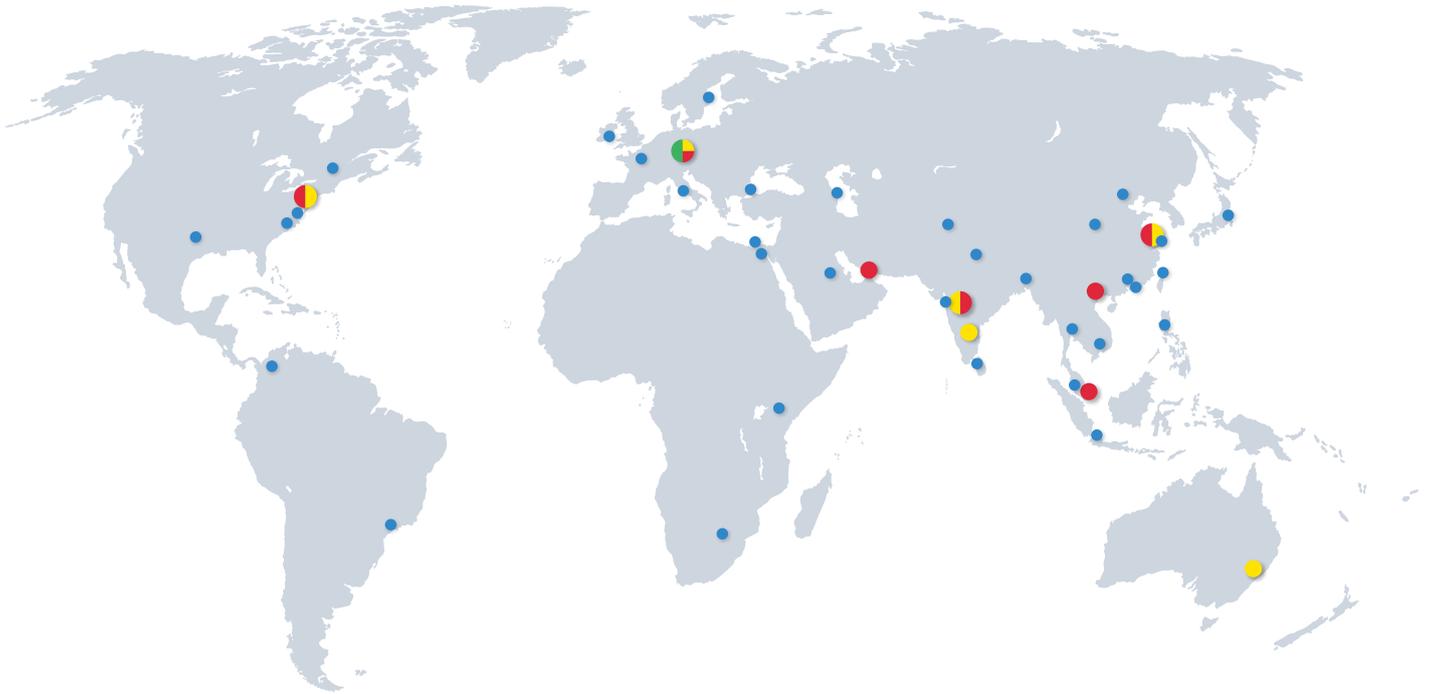
- Network optimization
- Technical consultation
- Customized product design
- Installation & commissioning
- Onsite training & supervision
- System troubleshooting
- After-sales services

In addition, we also offer professional training, technical support and workshops for distributors and agents. We are committed to offering exceptional services for our customers.

PROSE is much more than just a supplier – PROSE is a valued development partner and we will strive to meet new challenges in order to scale to new heights.



GLOBAL FOOTPRINT



- HQ
- PRODUCTION / OPERATIONAL HUB
- R&D CENTER
- SUBSIDIARIES / SALES REPRESENTATIVES



For more information refer to our website:
www.ProseTechnologies.com

PROSE

PROSE Technologies
www.ProseTechnologies.com
© 2025 PROSE Technologies
04/25