



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 3000 people, with 40+ subsidiaries sales/service offices, 4 factories, and 5 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, automatically 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	AI Powered Data Center Edge Computing Data Center Modular Data Center Outdoor & Container Data Center Liquid Cooling Solution Data Center Infrastructure Management(DCIM) Structured Cabling System Intelligent Cabling System (ICS)
BTS Antennas	Single-/Multi-Band Antennas Multibeam Antennas Beamforming Antennas Small Cell Antennas High Efficiency BSA (PROTREETM) 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 Installation Material
Filter Solutions	Interference Mitigation Filters Embedded Filters Site Combiners



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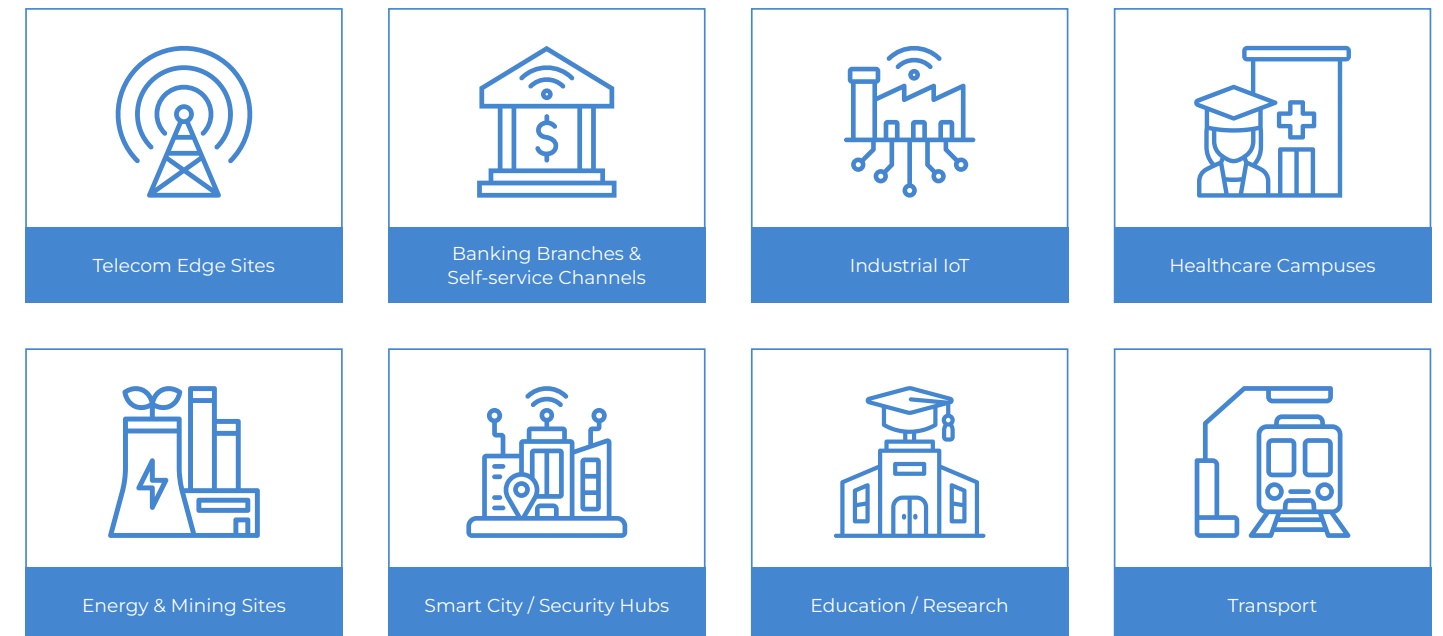
PROSE Digital World Business Unit is a professional provider of foundational networks and infrastructure. The core team has worked in Rosenberger from 2009 and split off from 2022 to PROSE.

With a strong research and development team, rapid product delivery, and technical responsiveness, we have long been committed to providing the following solutions and products to our clients:

- Data center infrastructure
- Building and data center network infrastructure
- Intelligent cabling management system
- Data center and cabling system design, configuration, solutions
- Customizing software and hardware development

Features of PROSE Data Center

 Energy	• Optimized power and cooling design for continuous PUE improvement • AI auto-tunes CRAH/chillers and fan speeds based on real-time load and temperature
 Environment	• Compact footprint with cabinet/module-level cascading • Low-noise design for quiet operation; multi-sensor monitoring (temperature, humidity, smoke, leakage)
 Safety	• End-to-end emergency response: fire module linkage, power/cooling interlocks • Biometrics access control, CCTV integration, proactive alarms, role-based permissions
 Cost	• Standardized modules reduce upfront investment; rapid deployment lowers installation effort • Predictive maintenance and energy optimization deliver lifecycle savings
 Smart (AI & O&M)	• EMS + Cloud O&M with local/remote alarms and mobile dashboards • AI services: Energy Optimizer, Alarm Root-Cause Radar, Asset Health & Lifespan Prediction, Digital Human Voice Q&A
 Fast Construction	• Factory-prefabricated modules, plug-and-play commissioning • Repeatable delivery templates shorten design, procurement, and site works

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System Diagram



Key Technical Parameters

Item	Technical Parameters	
Height Unit (customizable)	27U	42U
Cabinet Dimensions (mm)	600W x 800 or 1200D x 1350H with Casters	600 or 800W x 800 or 1200D x 2050H with Casters
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:AC230V	≤10kVA: AC230V, >10kVA: AC380V
PDB Input Current	≤6kVA: 40A~50A	≤10kVA: 40~80A, >10kVA: 50A~125A
Refrigerating Capacity of Air Conditioner (kW)	3.5	3.5/4/6.5/8/12.5
Refrigerant	R410A	
Channel Closure Type	Fully enclosed hot and cold aisles	Fully enclosed hot and cold aisles
Environmental Management System	The system monitors temperature, humidity, smoke, water leakage, power distribution, UPS batteries, air conditioning, and other critical equipment. It features smart locking and PUE display functionality. Alarm notifications can be sent via email, SMS, or mobile app.	
PDU	Standard PDU or intelligent PDU can be selected	
Fire Suppression System	Optional, Configure one unit per cabinet	
Color	White/Black/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 Alarm	BI-Color (Red & Blue)	
LED Lighting	Indicator status linked to door panel position	
Front Door	Toughened glass door with mechanical lock or smart lock	
Access Control	Fingerprint / IC Card / Keypad / Physical Key / Facial Recognition	
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

Part Number	Cabinet Type	UPS	Backup	Cooling	AFSS	PDU
MDC-1111-1111-A251-1171	600 x 1200mm 27U*1	3kVA/2.7kW*1	2.7kW 15min	3.5kW*1 split A/C	1U FK5112	(12) C13 16A
MDC-5111-1111-G251-1171	600 x 1200mm 42U*1	3kVA/2.7kW*1	2.7kW 15min	3.5kW*1 split A/C	1U FK5112	(12) C13 16A
MDC-5121-1111-E251-1171	600 x 1200mm 42U*1	6kVA/6kW*1	5.4kW 15min	3.5kW*1 split A/C	1U FK5112	(20) C13 (4) C19 32A
MDC-5121-1121-E251-1171	600 x 1200mm 42U*1	6kVA/6kW*1	5.4kW 15min	6.5kW*1 split A/C	1U FK5112	(20) C13 (4) C19 32A
MDC-5131-1121-E251-1171	600 x 1200mm 42U*1	10kVA/10kW*1	10kW 15min	6.5kW*1 split A/C	1U FK5112	(20) C13 (4) C19 32A

MaxSpace Micro Data Center

Product Introduction

In traditional Micro Data Centers, power distribution and cooling systems occupy valuable space, limiting IT equipment capacity. To address this, PROSE introduces the Up-to-100% IT Space MDC, relocating power distribution boxes, UPS units, and battery systems to the sides along with cooling components. This innovative design maximizes IT space utilization and significantly enhances customer efficiency.

Application Scenarios:

Micro Data Centers fit banking branches & self-service channels, industrial IoT floors, healthcare campuses, energy & mining sites, smart city/security hubs, and education/research. They enable fast rollout, near-site computing, high reliability, and EMS-driven environmental control with critical IT data monitoring to ensure continuous operations.

System Diagram



Key Technical Parameters

Item	Description	Technical Parameters
Cabinet	Cabinet Dimensions (W×D×H mm)	800 × 1200 × 2000, Enclosed Cabinet, Cold & Hot Aisle Isolation
	Cabinet Configuration	Single IT Cabinet
	Cabinet Net Weight (kg)	190kg (Cabinet Only)
	IT Space	38U (Standard with 1 2U Battery Pack, 1 1U AFSS)
	Door Lock	Fingerprint & Password Lock
Air Conditioning System	Air Conditioner Type	Rack-mounted Side-blow Air Conditioner
	Cooling Capacity (kW)	5
	Air Conditioner Weight (kg)	34 (Indoor Unit) / 50 (Outdoor Unit)
	Installation Method	Mounted on the Right Side of the Cabinet, No IT Space Occupied
Power Distribution System	System Input	220V/50Hz, Single Utility Power Input, 63A Main Input Breaker
UPS	Capacity	3kVA / 6kVA
PDU	Recommended Load Capacity (kW)	2.4 / 4.8
	Configuration	Single UPS, Single-phase Input & Output, Side-mounted Rack Installation
	Net Weight (kg)	13
	Communication Interface	RS485
	Installation Method	Vertical Rear Mounting
	Configuration	20 × C13 + 4 × C19, Dual PDU Output
	Intelligent PDU (Optional)	Main and Branch Circuit Monitoring (Voltage, Current, Power and Other Parameters)
Battery Pack	Single Pack Capacity	192V / 9Ah
	Single Pack Net Weight (kg)	48.6
	Quantity	1
	Lithium Battery	Optional
Backup Power	Backup Method	Battery Pack, External Battery Rack
	Backup Time	Approximately 15 Minutes at 2.4kW Load, or Expandable with Additional Battery Packs
Monitoring System	Visualization System	10.1-inch Integrated Monitoring Unit
Core Parameters	Noise dB(A)	≤55
Others	Rack-mounted Fire Protection	Optional 1U Automatic Fire Extinguisher
	Emergency Ventilation	Emergency Fan Assembly
	Installation Requirements	Ceiling Height ≥ 2.2m, Suitable for Direct Installation on Concrete Floor or Raised Floor

Ordering Information

Part Number	Cabinet Type	UPS	Backup	Cooling	AFSS	PDU
HMDC-6111-1111-E251-1171	800 × 1200mm 42U × 1	3kVA / 2.7kW × 1	2.7kW 15min	5kW × 1 Split A/C	1U FK5112	(20) C13 (4) C19 32A
HMDC-5121-8111-E251-1171	800 × 1200mm 42U × 1	6kVA / 6kW × 1	5.4kW 8min	5kW × 1 Split A/C	1U FK5112	(20) C13 (4) C19 32A

Modular Data Center

Product Introduction

PROSE modular data center integrates power, cooling, monitoring, fire protection, security, and aisle containment into an intelligent platform, enhancing safety, reliability, and energy efficiency. It supports prefabrication and rapid delivery for one-stop IT deployment. Equipped with EMS management and a 32-inch integrated monitoring console, it enables comprehensive IT resource oversight. AI-driven O&M offers voice interaction, inspection alerts, lifecycle prediction, fault tracing, and energy optimization—defining the next generation of green, efficient data centers.

Application Scenarios:

PROSE Modular data centers are widely used in cloud computing, internet, finance, telecom, energy, manufacturing, and government sectors, addressing high-density computing and rapid scalability needs. Their flexible deployment and prefabricated design make them ideal for edge computing, disaster recovery, and multi-site operations, enabling agile, green, and intelligent IT infrastructure.



Key Technical Parameters

Item	Technical Parameters
Modular Dimensions (mm)	Standard: 3600W, 2350 or 2550H, Length ≤15000mm. Custom configurations available.
Number of IT Cabinets	Supports up to 50 cabinets.
Average Power per Cabinet	Standard 3–10 kW, customizable for higher density requirements.
Recommended Installation Method	Steel structure base or epoxy flooring.
Power Supply Architecture	Supports dual or single power supply systems, UPS integration, and customization.
Flip Skylight	Automatic glass skylight opening, integrated with fire alarm linkage control.
Lighting	Energy-saving LED with motion sensor, intelligent ambient lighting with alarm color change.
Cabinet Dimensions (mm)	600 or 800W × 1100 or 1200D × 2000 or 2200H
Cabinet Load Capacity	1000 kg / 1500 kg / 2000 kg.
UPS Rated Capacity	200–600 kVA, Single module options: 10/15/20/25/40/50 kVA.
Frequency Range	40–70 Hz.
Input Voltage Range	300–460 VAC.
Output Voltage	380/400/415 VAC, 50–60 Hz, 3Ph+N+PE.
Power Factor	Input ≥0.99, Output =1.
Battery Cabinet	Includes heat dissipation module.
Backup Time	Configurable for 15, 30 minutes or customized based on load.
Battery Capacity	Each cabinet supports 16–40 × 12V lead-acid batteries.
Battery Monitoring	Monitors internal resistance, voltage, and temperature for each battery.
Input Voltage Range (PDU)	360–415 VAC.
Max Input Switch Capacity	Up to 1600 A.
Output Mode	IT load, air conditioning load, and other power loads.
Protection	MCCB, PCCB ATS.
Unit Cooling Capacity	25 kW / 40 kW / 50 kW / 60 kW
Cooling Dimensions (mm)	600W × 1100 or 1200D × 2000H
Refrigerant	R410A.
Interface	32" or 43" touch screen.
Environmental Management System	The system monitors temperature, humidity, smoke, water leakage, power distribution, UPS batteries, air conditioning, and other critical equipment. It features smart locking and PUE display functionality. Alarm notifications can be sent via email, SMS, or mobile app.
Data Management	Supports SD card/hard disk expansion, northbound interfaces, access control, video monitoring, dual power supply.

Ordering Information

Part Number	Cabinet Type	Cooling channel	UPS	Backup	Cooling	PDU
MOC-31821-2192-2125-I241	600 x 1200mm 42U*18	Double-row	150kVA/135kW*2	90kW 15min	25kW*5 inrow A/C	(20) C13 16A+(4) C13 16A
MOC-32421-21A2-2134-I241	600 x 1200mm 42U*24	Double-row	200kVA/180kW*2	120kW 15min	40kW*4 inrow A/C	(20) C13 16A+(4) C13 16A

Outdoor Data Center

Product Introduction

Base station outdoor cabinets deliver specialized solutions for large and distributed communication stations, adaptable to various environments. Main types include aluminum-assembled cabinets, sheet-metal welded cabinets, and sheet-metal assembled cabinets. These cabinets provide a highly integrated mini data room for modern stations, offering advantages unmatched by traditional rooms and widely adopted in telecom infrastructure. Cabinets can be flexibly customized to meet diverse installation needs. For temperature control, options include air conditioners, heat exchangers, integrated cooling units, and fans to ensure optimal thermal management.

Application Scenarios:

Outdoor cabinets are widely used in telecom, energy, and transportation sectors, ideal for base stations, edge nodes, and remote sites, ensuring equipment protection and temperature control in diverse environments.



Key Technical Parameters

Item	Technical Parameters
Height Unit (customizable)	37U
Cabinet Dimensions (mm)	900W × 900D × 2100H
Static Load	Up to 2000 kg
Color	RAL7035
Structure Composition	Welded framework with color steel sandwich panels; sealed cabinet design
LED Lighting	Indicator status linked to door panel position
Front Door	Enclosed doors equipped with either mechanical or smart locks
Rear Door	None
Safety Standard	RoHS
IP Level	IP55
Air Conditioner Capacity	1.5 kW
Air Conditioner Input Power	600 W
Power System Dimension	482 × 350 × 5U
Power System Capacity	DC-48V 300A
Single Module Capacity	DC-48V 50A
Number of Modules	DC-48V 1-6pcs
Battery Capacity	DC51.2 100Ah / DC51.2 200Ah
Battery Backup	On-demand selection
Environmental Management System	Standard 1U rack monitoring host: The system monitors temperature, humidity, smoke, water leakage, power distribution, UPS batteries, air conditioning, and other critical equipment. It features smart locking and PUE display functionality. Alarm notifications can be sent via email, SMS, or mobile app.

Ordering Information

Part Number	Cabinet Type	DC Power	Backup	Cooling	PDU
OC-100-11112K	905 x 905mm 37U*1	DC48V 200A*1	30min	1.5kW × 1 Integrated Air Conditioner	(5) 16A Switching
OC-200-11112K	905 x 905mm 27U*1	DC48V 200A*1	30min	1.5kW × 1 Integrated Air Conditioner	(5) 16A Switching

Container Data Center

Product Introduction

The PROSE container data center solution integrates multiple functional units, including container and sealing systems, power distribution, IT cabinets, cooling, monitoring, and fire protection. After pre-installation and testing at the factory, the container is transported to the site, enabling users to deploy servers quickly after installation.

The container structure ensures simple, fast installation for rapid business launch while avoiding building construction issues. Designed for outdoor conditions, it features rainproof, sunproof, and salt-spray protection, meets IP55 protection, fire rating standards, and incorporates comprehensive fire and anti-theft measures for maximum safety and reliability.

Application Scenarios:

PROSE container data centers are widely deployed across telecom, energy, transportation, finance, and emergency response sectors. They are ideal for rapid rollout of edge computing nodes, temporary data centers, and disasterrecovery sites. With a prefabricated, modular, and outdoorready design, they support efficient energy management and intelligent O&M, enabling agile, scalable, and sustain able digital infrastructure.



Key Technical Parameters

Item	Technical Parameters
Container System Dimensions (mm)	6058(L) x 3000(W) x 2896(H)mm(20ft),12192(L) x 3000(W) x 2896(H)mm(40ft)
IP Level	IP55
IT Cabinet Dimensions (mm)	600W x 1100D or 1200D x 2000H (42U)
IT Cabinet QTY	8-12 pcs
PDU	Standard PDU, 32A input, 20x10A + 4x16A output
Integrated UPS	
Dimensions (mm)	600W x 1100D or 1200D x 2000H
Rated Voltage	380V/400/415V
Frequency Range	40-70 Hz
Battery Storage	±192 V
Display Screen	7 inch
UPS Power Capacity	Up to 150 kVA
Mains Input Power Distribution	Equipped 630A Main Input Circuit breaker
Lithium Battery Cabinet	Up to 30mins
Communication Mode	TCP/IP, RS485
System Display Mode	Touch screen
PAC Cabinet - Air Conditioner Capacity	25 kW / 40 kW
Air Conditioner Dimensions (mm)	300W or 600W x 1100D or 1200D x 2000H
Air Conditioner QTY	Up to 5 pcs
Fire Protection System	Equipped with Fire/gas extinguishing controller
Environmental Management System	The system monitors temperature, humidity, smoke, water leakage, power distribution, UPS batteries, air conditioning, and other critical equipment. It features smart locking and PUE display functionality. Alarm notifications can be sent via email, SMS, or mobile app.

Ordering Information

Part Number	Container Dimension	Cabinet Type	UPS	Backup	Cooling	PDU
CDC-20400-4142-1223-I241	6058(L) x 3000(W) x 2896(H) mm	600 x 1100mm 42U*4	60kVA/54kW*2	40kW 30min	25kW*3 inrow A/C	(20) C13 16A + (4) C13 32A
CDC-20911-2172-2223-H221	12192(L) x 3000(W) x 2896(H) mm	600 x 1100mm 42U*8	100kVA/90kW*2	80kW 30min	25kW*4 inrow A/C	(20) C13 16A + (4) C13 32A

Electromagnetic Shield Cabinet

Product Introduction

Electromagnetic shielding cabinets are designed to house IT devices, reducing electromagnetic information leakage, and protecting against strong external interference that could disrupt normal operations.

The structure complies with the 19-inch international standard, offering excellent universality and compatibility for shielding network equipment such as servers, switches, and routers in large data rooms. Product size and internal layout can be customized to user requirements.

Application Scenarios:

Electromagnetic shielding cabinets are widely used in government, military, finance, telecom, and research sectors to protect sensitive information and critical equipment. They prevent electromagnetic leakage and external interference, ensuring network security and stable operation in large data centers, server rooms, and secure facilities.



Key Technical Parameters

Item	Technical Parameters
Height Unit (customizable)	37U
Cabinet Dimensions (mm)	700W × 980D × 2000H
Power	AC220V 16A
Shielding Function	Class C
Electromagnetism	14KHz ≥70dB; 150KHz ≥95dB
Electric Field	200KHz~50MHz ≥100dB
Plane Wave	50MHz~1GHz ≥100dB
Microwave	1GHz~10GHz ≥95dB
Applicable Environment	-25°C to +70°C
Relative Humidity	5 ~ 95%
Cable Waveguide	10 pcs
Optical Fiber Waveguide	5 pcs
Filter	16A, 1 pc
Fan	8 pcs
Waveguide Window	300 × 300 mm
Weight	About 350 kg
Static Load	Up to 2000 kg
Color	Black
Structure Composition	Welded framework, sealed cabinet design
IP Level	IP5X
LED Lighting	Indicator status linked to door panel position
Front Door	Copper-plated steel door featuring a standard mechanical lock, with optional intelligent access control lock
Rear Door	None or optional enclosed doors equipped with either mechanical or smart locks
Safety Standard	RoHS

Ordering Information

Part Number	Cabinet Type	DC Power	Backup	Cooling	PDB
ESC71037-211251	700 x 980mm 37U*1	DC48V 200A*1	30min	3.5kW*1 split A/C	(12) C13 10A
ESC71022-211251	700 x 980mm 22U*1	DC48V 200A*1	30min	3.5kW*1 split A/C	(12) C13 10A

UPS (Uninterrupted Power Supply)

Product Introduction

PROSE introduces a new generation of high-end three-phase input and output UPS power systems, featuring advanced dual-core DSP digital control technology. This innovation significantly enhances product performance and system reliability while achieving higher power density integration and compact design, meeting the demands of modern data centers for efficient and stable power supply.

Application Scenarios:

High-end UPS systems are widely used in data centers, telecom, finance, healthcare, and energy sectors, meeting stringent requirements for reliable power supply. With high power density and advanced digital control, they ensure system stability and efficiency in mission-critical environments.



VT Series High Frequency
Online Vertical UPS



RTM Series High Frequency
Online Rack Modular UPS



CM Series High Frequency
Online Modular UPS

Key Technical Parameters

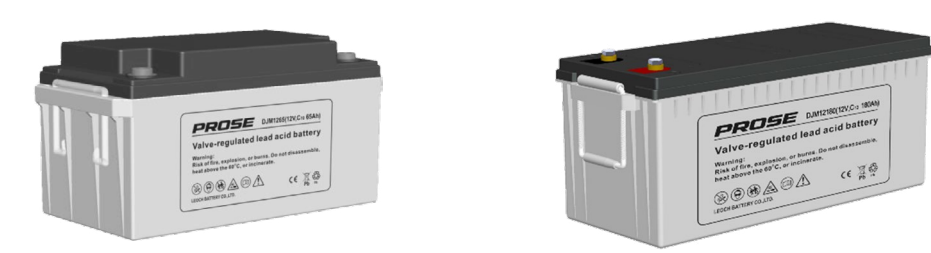
VT series 3-Phase Input 3-Phase Output 10-200KVA Technical Specification						
Model	VT series					
Rated Capacity	10-30kVA	40-60kVA	80kVA	100-120kVA	160kVA	200kVA
Rated Voltage	380/400/415V					
Frequency Range	40Hz-70Hz					
Power Factor	≥ 0.99@100% load, ≥ 0.98@50% load					
Output Voltage	380/400/415VAC(3-phase+N), 20/230/240VAC (single phase+N)					
Power Factor	0.9 (optional 1)					
Overload Capacity	< 105%, long term; < 110%, 60 minutes; 10-125% of rated load, with load for 10 minutes; > 125-150% rated load, with load for 1 minute; > 150%, 200ms					
Number of Batteries	Section 32 by default; 30 ~ 44 (15 ~ 22) knots (adjustable)					
Dimensions (mm)	425W x 780D x 1200H			600W x 800D x 1600H	600W x 1010D x 2000H	
Net Weight (kg)	116	141	166	230	320	460
Working Temperature	0 ~ 40 C (the battery life will be shortened in the environment of > 25°C)					
Relative Humidity	0-95% without condensation.					
Altitude	1000 meters will not be derated, and every 100 meters above 1000 meters will be derated by 1%					
Noise	≤ 60db (a) @ 1m			≤ 65db (a) @ 1m		
Communication Interface	RS-232/RS-485					

RTM series 3-Phase Input 3-Phase Output 20-150KVA Technical Specification									
Model	RTM series								
Rated Capacity	20KVA	30KVA	40KVA	40KVA	60KVA	80KVA	100kVA	120KVA	150kVA
Power Module Capacity	10KVA	15KVA	20KVA	10KVA	15KVA	20KVA	25kVA	20KVA	25KVA
Wiring Mode	3-phase +N-line +PE								
Rated Voltage	380/400/415Vac (line voltage)								
Voltage Range	304Vac~478Vac (line voltage) full load; 304Vac~228Vac (line voltage) load is derated linearly from 100%~80%								
Frequency Range	40Hz~70Hz								
Battery Voltage	±192Vdc (360~528Vdc; 30~44 batteries are adjustable, 32 batteries by default)								
Power Factor	1								
Communication Interface	RS232/RS485/SNMP card (option)/programmable dry contact (option)								
Working Environment	Working temperature: 0~40°C; Relative humidity: 0~95% (no condensation)								
Cabinet Type	2 module frames			4 module frames				6 module frames	
Frame Dimensions (mm)	482.6W x 800D x 353H (8U)			482.6W x 800D x 531H (12U)			482.6W x 800D x 531H(12U)	482.6W x 900D x 800H(18U)	
Module Dimensions (mm)	440W x 690D x 86H (2U)								
Altitude	1000m will not be derated, and every 100m above 1000m will be derated by 1%								
Noise	≤ 60db (a) @ 1m				< 58db (a) @ 1m				
Machine (Kg)	35.5	37	37.5	45.5	46	47.5	47.5	72	
Module (Kg)	23	23.5	25	23	23.5	25	30	25	30

CM series 3-Phase Input 3-Phase Output 80-300KVA Technical Specification								
Model	CM series							
Rated Capacity	80kVA	120kVA	140kVA	200KVA	240kVA	100kVA	175kVA	300kVA
Power Module Capacity	20kVA					25kVA		
Wiring System	3-phase +N-line +PE							
Rated Voltage	380/400/415Vac (line voltage)							
Rated Frequency	50/60Hz							
Battery Voltage	±192Vdc (360~480Vdc; 30 ~ 40 batteries are adjustable, 32 batteries by default)							
Power Factor	0.9							
Line Feeding Mode	Supports uplink and downlink							
Communication Function	RS232/RS485/SNMP card (option)/programmable dry contact (option)							
Working Environment	Working temperature: 0 ~ 40°C; Relative humidity: 0 ~ 95% (no condensation)							
Noise	< 60db @ 1m							
Altitude	1000m without derating, > 1000m, power derating 1% for every 100m.							
Cabinet Type	4Module cabinet	6 Module cabinet	7 Module cabinet	10 Module cabinet	12 Module cabinet	4 Module cabinet	7 Module cabinet	12 Module cabinet
Frame depth x width x height (mm)	600 x 890 x 1200	600 x 995 x 1600		600 x 995 x 2000	600 x 1010 x 2000	600 x 890 x 1200	600 x 960 x 1600	600 x 1010 x 2000
Module depth x width x height (mm)	440 x 690 x 86 (2U)							
Machine (Kg)	140	124	185	207	270	150	195	270
Module (Kg)	26.5					30		

Battery

Lead-Acid Battery (DC12V 9Ah-200Ah)



Product Introduction

PROSE lead-acid batteries are designed as floating charge batteries with a 10-year service life, fully compliant with IEC standards. Utilizing advanced AGM valve-regulated technology and high-purity raw materials, these batteries deliver reliable standby performance for applications requiring high safety and stability.

Application Scenarios:

PROSE lead-acid batteries are widely used in data centers, telecom stations, financial systems, energy, and industrial sectors as essential components for UPS and backup power. They ensure continuous operation of critical services during outages, meeting high safety and long-life requirements.

Key Technical Parameters

No.	Rated Voltage	Rated Capacity	Dimensions(mm)				Weight	Terminal Type
	DC(V)	AH	L	W	H	Total H	(kg)	
1	12	9(C20)	151	65	93.5	99.5	2.52	T1/T2
2	12	12(C20)	151	98	95	101	3.24	T2
3	12	18(C20)	181.5	76.5	167.5	167.5	4.85	T12(M5)
4	12	24(C20)	166	175	125	125	7.20	T3
5	12	38(C10)	197	165	170	170	12	T6(M6)
6	12	55(C10)	229	138	205	211	16.2	T6(M6)
7	12	65(C10)	348	167	178	178	19.2	T6(M6)
8	12	75(C10)	260	168	208	214	21.4	T6(M6)
9	12	100(C10)	330	173	213	220	28.2	T11(M6)
10	12	120(C10)	408	177	225	225	35.0	T11(M8)
11	12	150(C10)	483	170	238.5	238.5	42.7	T11(M8)
12	12	200(C10)	522	240	218	224	59.0	T11(M8)

Precision Air Cooling

Product Introduction

PROSE Air cooling systems feature high efficiency, energy savings, safety and reliability, intelligent management, compact structure, and superior craftsmanship. They fully meet the cooling requirements of modern data rooms, ensuring stable operation and reduced energy consumption.



F Series Room-Level Air- Cooled Precision
Air Conditioner



G Series In-Row Air-Cooled Precision
Air Conditioner

Application Scenarios:

Air cooling systems are widely used in data centers, telecom facilities, finance, healthcare, and industrial environments to meet high-density equipment cooling needs. With energy efficiency and intelligent management, they ensure stable operation of critical infrastructure in demanding conditions.

F Series Room-Level AC Technical Parameters

Technical Parameters												
Items	Model	25KW	30KW	35KW	40KW	45KW	50KW	60KW	70KW	80KW	90KW	100KW
Air Volume	m³/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 Dimension	Widt (mm)	900	900	900	900	900	1800	1800	1800	1800	1800	1800
	Dept (mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Heigh (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
	Quantity	1	1	1	1	1	2	2	2	2	2	2

G Series In-Row AC Technical Parameters

Technical Parameters				
Items	Unit	25KW	40KW	50KW
Air Volume	m³/h	5000	8500	10500
Cooling Capacity	kW	25.8	40	50
Sensible Cooling Capacity	kW	25.8	40	50
Electric Heating	kW	3	6	6
Humidification Amount	kg/h	1.5	3	3
Maximum Load Current	A	28.2	40	52
Unit Dimensions	mm	300W x 1100D x 2000H	600W x 1100D x 2000H	600 x 1100D x 2000H
Weight	kg	240	330	340
The Outdoor Unit		OU-40	OU-60	OU-70
Number of Outdoor Units		1	1	1

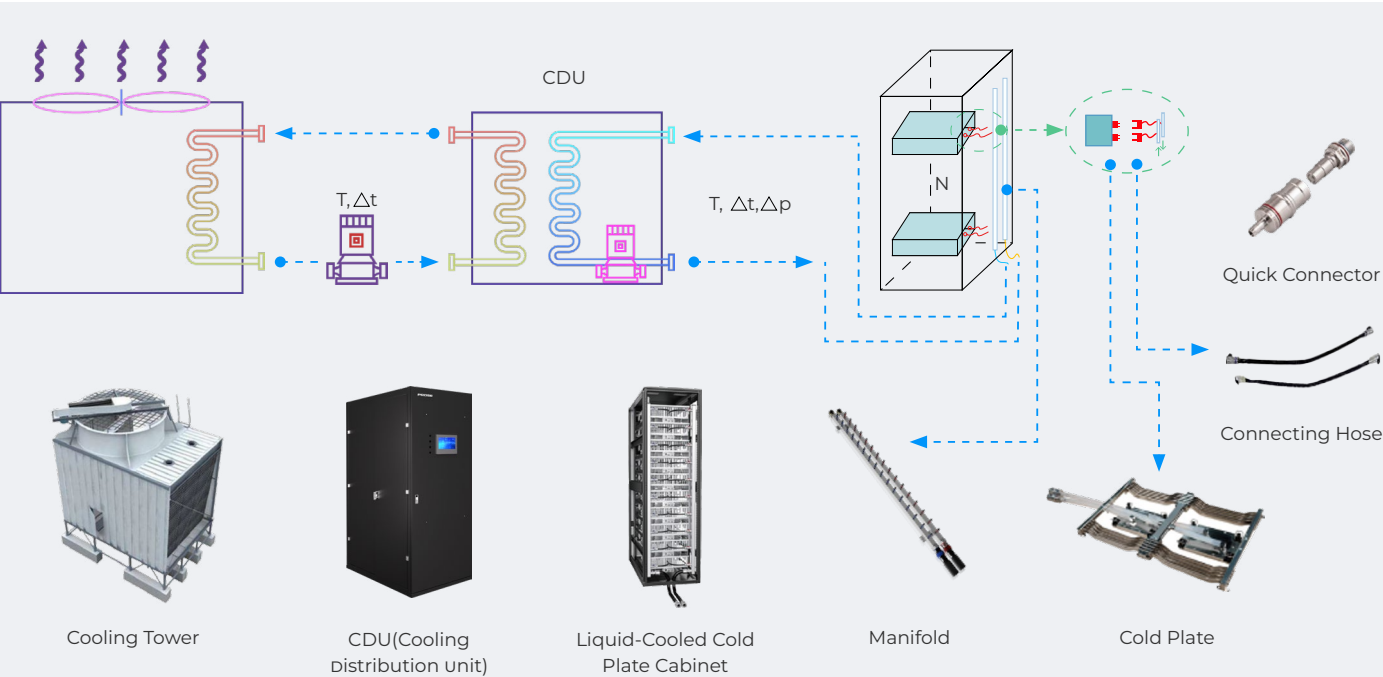
Outdoor AC Technical Parameters

Technical Parameters					
Items	Unit	OU-40	OU-50	OU-70	OU-80
Number of Fans	Tower	1	1	2	2
Unit Dimensions	mm	1650W x 1100D x 1150H	1650W x 1100D x 1150H	2010W x 1100D x 1150H	2860W x 1100D x 1150H
Full Load Current	A	2.9	4.7	5.8	5.8
Weight	kg	158	168	210	256
Noise	db.	60	60	62	62

Liquid Cooling Management System

Product Introduction

Plate-based liquid cooling is an advanced thermal management technology designed for high-power data center equipment, addressing the limitations of traditional air cooling in high-density environments. This solution integrates cold plates onto critical components such as server CPUs and GPUs, leveraging the superior thermal conductivity of liquid to rapidly transfer and dissipate heat. Coolant circulates through microchannels within the plates, and absorbed heat is discharged via heat exchangers to the chilled water system or dry coolers, ensuring efficient heat removal. Compared to air cooling, plate-based liquid cooling significantly reduces energy consumption, supports cabinet power densities above 30 kW, and improves overall energy efficiency (PUE).



Application Scenarios:

Plate-based liquid cooling is widely used in AI training clusters, high-performance computing (HPC), cloud platforms, and large-scale data centers to meet the cooling demands of high-density, high-power equipment. Its energy-efficient and sustainable design helps organizations achieve low PUE and build next-generation green infrastructure.

Key Technical Parameters

Technical Parameters CDU						
Items	300-A	400-A	500-A	700-A	300-B	600-B
Rated Heat Exchange Capacity (kW)	300	400	500	700	300	600
Unit Rated Flow (L/min)	430	580	720	1080	430	870
Pump Type	Single Pump				Dual Pump	
Primary Side Supply Water Temperature (°C)	35					
Primary Side Medium	Softened water, PG25/EG25 aqueous solution.					
Secondary Side Supply Water Temperature (°C)	40					
Secondary Side Medium	Water-based, ethylene/propylene glycol-based.					
Dimensions (mm)	600W x 1200D x 2200H	1000W x 1400D x 2200H	1200W x 1200D x 2200H	1200W x 1400D x 2200H	600W x 1200D x 2200H	1200W x 2000D x 2200H
Power Specification:	415V/380V 3Ph 50Hz					
Storage Environment Temperature and Humidity	-20 to 70°C; long-term: 5% to 85% RH, non-condensing; short-term: 5% to 95% RH, non-condensing.					
Altitude	Derating above 1000 m: for every 220 m increase in altitude, the ambient temperature specification decreases by 1 °C.					

Power Distribution Unit

Product Introduction

PROSE PDU (Power Distribution Unit) offers a wide range of specifications with diverse functions, installation methods, and plug combinations, providing reliable rack power distribution solutions for various power environments. PDU ensures that power distribution inside the cabinet is organized, safe, and professional, while simplifying power maintenance.

PROSE provides three series of PDU products: **Standard, Intelligent Basic, and Intelligent Monitoring.**

- **Standard Series:** An economical and practical multi-channel power solution with socket options such as GB1002, IEC320 C13, and IEC320 C19.
- **Intelligent Basic Series:** Supports remote monitoring of power bus parameters, including current and voltage.
- **Intelligent Monitoring Series:** Enables remote reading of bus current, individual channel current, and allows independent on/off control for each channel.

Application Scenarios:

PROSE PDU solutions are widely adopted across multiple industries:

- **Data Centers & Cloud Services:** Ensure stable power for high-density racks and critical servers, supporting real-time monitoring and remote control.
- **Telecommunications:** Provide reliable power distribution for network equipment in telecom rooms, reducing downtime and improving operational efficiency.
- **Finance & Banking:** Guarantee uninterrupted power for core IT systems, enhancing security and compliance.
- **Manufacturing & Industrial:** Support automated production lines and control systems with safe and efficient power management.

Outline



Basic type

The basic type delivers stable and reliable power with exceptional cost-effectiveness, offering users an immediate and high return on investment.

Input Monitored (RS485)

Provides local monitoring for customers and supports remote monitoring via the EMS system.

Input Monitored (Network)

Offers both local and remote master-level monitoring, seamlessly integrates with DCIM systems, supports master-slave cascading for up to 10 PDU groups, and can connect to temperature/humidity sensors for real-time cabinet climate monitoring.

Switched

The intelligent PDU enables remote shutdown and reboot for each individual outlet, and supports external sensors for temperature, humidity, smoke, water leakage, and door status signals. It delivers comprehensive management of the data center room, providing real-time environmental monitoring and intelligent operation to ensure safety and reliability.

Performance

- Modular design for high compatibility and scalability.
- Diversified sockets to meet different standards and needs.
- Multiple power inputs including IEC plug and industrial coupler.
- Overload protection to prevent short circuit and overload.
- Flexible installation for various environments.

Socket Type

GB1002 10A	GB1002 16A	IEC320 C13	IEC320 C19	USA 15A	USA 20A	GER 16A	UK 13A
							

Plug Type

GB1002 10A	GB1002 16A	IEC320 C14	IEC320 C20	IEC60309 16A/32A
				
GRE 16A	UK 13A	USA 15A	USA 20A	IEC60309 32A 380V 3P+N+E
				

Ordering Information

Part Number	PDU Type	Voltage/amps	Plug	Outlet	Description
PU11-23013A-L06BH01	Basic	AC230V/13A	UK	(6) UK13	H PDU, input AC230V 13A, output UK13x6, 1 rocker switch, 2m, UK plug,
PU11-23016A-C06BH01	Basic	AC230V/16A	1P+N+E (IP44)	(6) C13	H PDU, input AC230V 16A, output C13x6, plug, 1 rocker switch, 2m, S+P IEC60309
PU11-23016A-C06BH02	Basic	AC230V/16A	1P+N+E (IP44)	(6) UK13	H PDU, input AC230V 16A, output UK13x6, plug, 1 rocker switch, 2m, S+P IEC60309
PU11-23016A-C06BH03	Basic	AC230V/16A	1P+N+E (IP44)	(6) GB1002	H PDU, input AC230V 16A, output GB1002 10Ax6, plug, 1 rocker switch, 2m, S+P IEC60309
PU11-23016A-C10BV01	Basic	AC230V/16A	1P+N+E (IP44)	(10) C13	V PDU, input AC230V 16A, output C13x10, plug, 1 rocker switch, 2m, S+P IEC60309
PU11-23016A-C10BV02	Basic	AC230V/16A	1P+N+E (IP44)	(10) C13	V PDU, input AC230V 16A, output C13x10, plug, hydraulic-magnetic cb, 2m, S+P IEC60309
PU11-23032A-C10BV01	Basic	AC230V/32A	1P+N+E (IP44)	(10) C13	V PDU, input AC230V 32A, output C13x10, plug, 1 rocker switch, 2m, S+P IEC60309
PU11-23032A-C10BV02	Basic	AC230V/32A	1P+N+E (IP44)	(10) C13	V PDU, input AC230V 32A, output C13x10, plug, hydraulic-magnetic cb, 2m, S+P IEC60309
PU11-23032A-C16BV01	Basic	AC230V/32A	1P+N+E (IP44)	(16) C13	V PDU, input AC230V 32A, output C13x16, plug, 1 rocker switch, 2m, S+P IEC60309
PU11-23032A-C24BV01	Basic	AC230V/32A	1P+N+E (IP44)	(20) C13 (4) C19	V PDU, input AC230V 32A, output C13x20+C19x4, plug, hydraulic-magnetic cb, 2m, S+P IEC60309
PU11-23032A-C24BV02	Basic	AC230V/32A	1P+N+E (IP44)	(24) C13	V PDU, input AC230V 32A, output C13x24, plug, hydraulic-magnetic cb, 2m, S+P IEC60309
PU21-23032A-C24BV01	485 Input-Metered	AC230V/32A	1P+N+E (IP44)	(24) C13	V 485 Input-Metered AC230V 32A, output C13x24, plug, hydraulic-magnetic cb, 2m, S+P IEC60309
PU21-23032A-C24BV02	485 Input-Metered	AC230V/32A	1P+N+E (IP44)	(20) C13 (4) C19	V 485 Input-Metered AC230V 32A, output C13x20+C19x4, plug, hydraulic-magnetic cb, 2m, S+P IEC60309
PU31-23032A-C24BV01	iPDU Input-Metered	AC230V/32A	1P+N+E (IP44)	(24) C13	iPDU Input-Metered AC230V 32A, output C13x24, plug, hydraulic-magnetic cb, 2m, S+P IEC60309
PU31-23032A-C24BV02	iPDU Input-Metered	AC230V/32A	1P+N+E (IP44)	(20) C13 (4) C19	iPDU Input-Metered AC230V 32A, output C13x20+C19x4, plug, hydraulic-magnetic cb, 2m, S+P IEC60309
PU41-23032A-C24BV01	iPDU Outlet-switch	AC230V/32A	1P+N+E (IP44)	(24) C13	iPDU Outlet-switch AC230V 32A, output C13x24, plug, hydraulic-magnetic cb, 2m, S+P IEC60309
PU41-23032A-C24BV02	iPDU Outlet-switch	AC230V/32A	1P+N+E (IP44)	(20) C13 (4) C19	iPDU Outlet-switch AC230V 32A, output C13x20+C19x4, plug, hydraulic-magnetic cb, 2m, S+P IEC60309

Environment Monitoring System

1. Overview

PROSE Environment Monitoring System (EMS) integrates power, environment, security, and IT resource monitoring across data centers. It provides real-time visibility, intelligent alarms, remote control, and AI-driven O&M—helping reduce energy consumption, improve reliability, and simplify operations.

2. System Architecture

Architecture Layers:

- **Edge & Infrastructure:** UPS, batteries, power distribution cabinets, PDB, precision air conditioners, sensors (temperature, humidity, smoke, leakage), fire modules, smart locks/access control, CCTV, IT equipment.
 - **Connectivity & Ingestion:** AI/DI/RS232/RS485 interfaces, Modbus, SNMP protocols.
 - **EMS Core Platform:** Centralized monitoring & remote control, alarm management, reporting & analytics.
 - **AI-driven O&M:** Energy Optimizer, Alarm Root-Cause Radar, Asset Health & Lifespan Oracle, Digital Human Interface.
 - **Applications & Integration:** Web, mobile, API integration with DCIM/BMS/NMS.
- (Architecture diagram provided separately for visual representation.)



3. Core Functions

- **Centralized Monitoring & Remote Control:** Unified monitoring of power, environment, security, and IT devices with remote adjustment.
- **Intelligent Alarm Management:** Correlation, suppression, escalation, real-time notifications.
- **Reporting & Analytics:** Energy, capacity, trends, reports.
- **AI-driven O&M:**
 - Energy Optimizer
 - Alarm Root-Cause Radar
 - Asset Health & Lifespan Oracle
 - Digital Human Interface

4. Monitoring Objects

- UPS
- Battery
- Power Distribution Cabinet & PDB
- Precision Air Conditioner
- Temperature & Humidity Sensors
- Smoke & Leakage Sensors
- Fire Module
- Smart Locks & Access Control
- CCTV Security Monitoring
- IT Equipment

5. Typical Order Configuration

Only applicable to PROSE standard solutions:

- Micro DC
- Modular DC
- Container DC

6. Monitoring Host Specs

Three options available:

- 10.1-inch industrial host
- 1U rack-mounted host
- 32-inch industrial host

7. Customer Value & AI Features

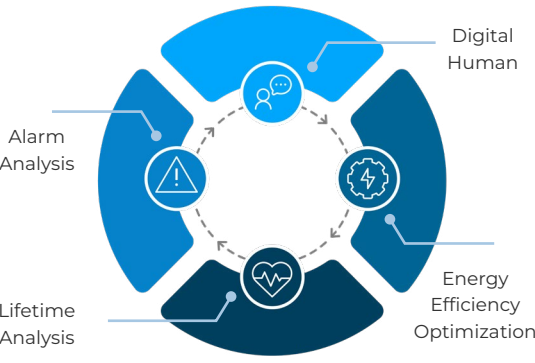
- Enhanced reliability through intelligent alarms and fault tracing
- Reduced energy consumption via AI-driven optimization
- Simplified O&M with centralized monitoring and remote control
- Intelligent decision support with voice interaction and predictive analytics
- Multi-layer security for safe data center operations

Local Monitoring Interface:



What value can PROSE AI deliver?

- Digital Human Interaction for natural and intelligent user engagement
- Alarm Intelligence and Root-Cause Analysis to enhance operational efficiency
- Energy Optimization and Predictive Analytics driven by real-time data
- Equipment Life-Cycle Prediction to assess asset health and support proactive maintenance planning



PROSE Service

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

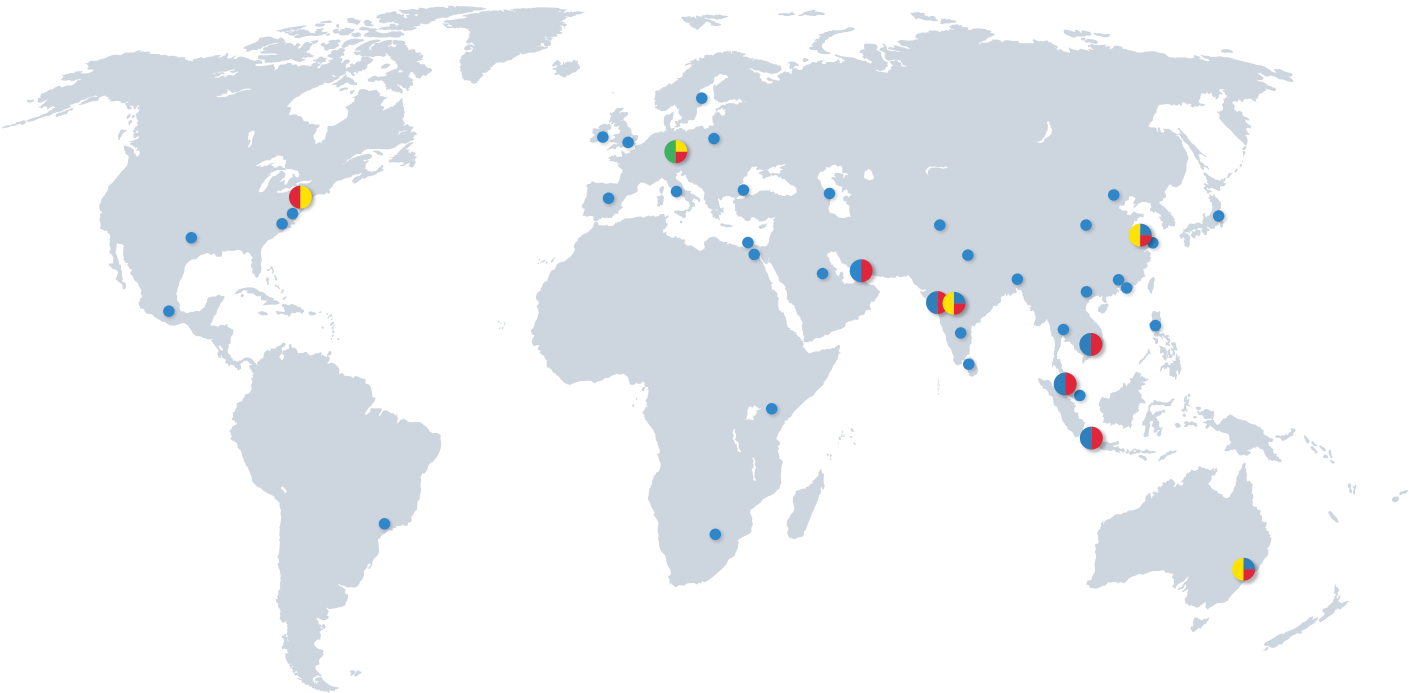
Our service core competences include:

- 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

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