

Product Introduction

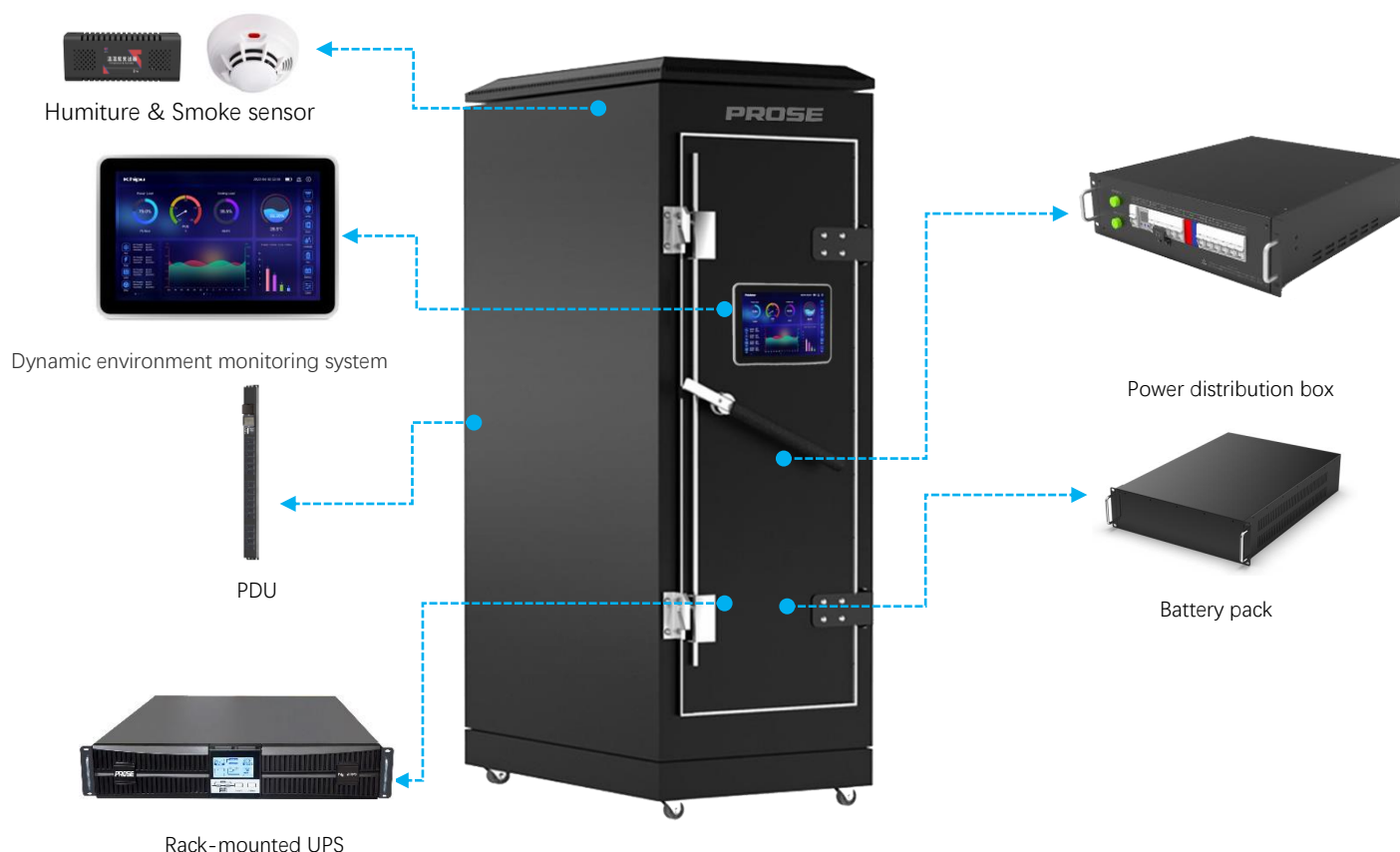
Electromagnetic shielding data centers are designed to house computers and protect against electromagnetic waves that could harm human health. They effectively suppress the leakage of electromagnetic information from computers and prevent strong external electromagnetic interference from affecting the normal operation of computers. These cabinets meet the Class C standards of the national confidentiality standard BMB19-2006.

The structure complies with the 19-inch international standard requirements, featuring good versatility and strong compatibility, making it suitable for electromagnetic protection of network devices such as servers, switches, and routers in network, communication, and large computer rooms. The product dimensions and internal structure can be designed according to customer requirements.

Working principle of the shielding cabinet: When an electromagnetic wave is incident on a metal plate with air on both sides, some of the energy is reflected, which is known as reflection loss; the part of the transmitted wave that is attenuated while propagating inside the metal plate is called absorption loss; when the wave is reflected from the second interface back to the first interface, it will generate reflection again, and this cycle continues until all the energy is attenuated and transmitted.

Main Feature

- Fast Installation Only 2H
- System Emergency Response Protection
- Cascading Available for Rack
- Saving Room Space 50%
- Signal Shielding Class C
- Quiet Operation Less-than 55dB
- DCIM 24H Cloud O&M



Schematic Diagram



System specification

Item	Technical parameters
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
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

Cabinet Dimensions Specifications

Item	Height(U)	Width(mm)	Depth(mm)	Height(mm)	Note
1	22	700	1000	1333(Without wheels)	
2			1100		
3			1200		
4		900	1000		
5			1100		
6			1200		
7	37	700	1000	2000(Without wheels)	
8			1100		
9			1200		
10		900	1000		
11			1100		
12			1200		

Power Distribution Box



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

UPS (Uninterrupted Power Supply)



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

Dynamic Environment Monitoring System



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

Battery Pack



Battery Pack



Valve Regulated Lead Acid Battery (VRLA)

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

PDU (Power Distribution Unit)



Item	Specification
Rated current	16A
Rated voltage	220VAC 50/60Hz
Output ports	24*C13
Max power	5KW
Outline size	1217(Adjustable length) x 44 x 44 mm
Installation method	Horizontal/Vertical installation
Safety certification	CCC
Function	Lightning protection, intelligent monitoring, and general circuit breaker are optional

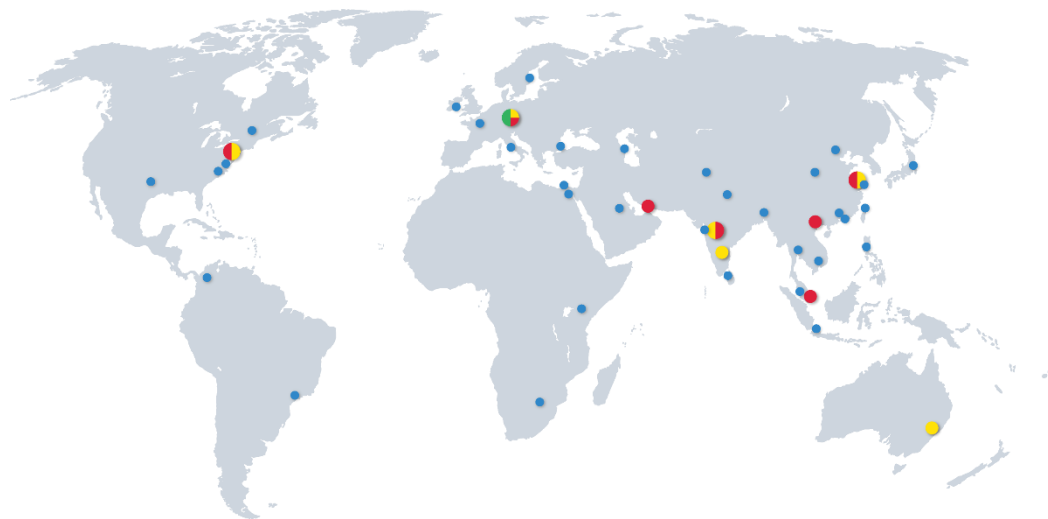
Ordering Information

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	10: 1000	22: 22U
	9: 900	11: 1100	37: 37U
		12: 1200	42: 42U
4.Dynamic environmental system	5.Temperature Control System	6.Switching power supply	7.Rectifier module
0: NA	1: Air Conditioner	0: NA	0: NA
1: Contains 1U acquisition host without monitor	2: Heat Exchanger	1:200A switching power supply sub rack	1:50A rectifier module -3PCS
2: Includes monitoring appliance (monitor)	3: Air conditioning heating machine	2: 300A switching power supply sub rack	2:50A rectifier module -4PCS
		3: DC48V power system	3:50A rectifier module -6PCS
		4: 3KVA-UPS	4:50A rectifier module -5PCS
		5: 1KVA-UPS	5:50A rectifier module -2PCS
8.Battery	9.PDU		
0: NA	A: 12 outlet PDU, 16A, IEC 320 C13		
1: DC12V 150AH batteries 8PCS	B: 12 outlet PDU, 16A, IEC 320 C13 Smart		
2: DC51.2V 100AH lithium batteries 2PCS	C: 24 outlet PDU, 16A, IEC 320 C13		
3: DC12V 200AH batteries 4PCS	D: 24 outlet PDU, 16A, IEC 320 C13 Smart		
4: DC12V 9AH batteries 12PCS	E: 24 outlet PDU, 32A, IEC 320 20*C13+4*C19		
5: DC51.2V 100AH lithium batteries 1PCS	F: 24 outlet PDU, 32A, IEC 320 20*C13+4*C19 Smart		
6: DC51.2V 100AH lithium batteries 3PCS	G: 24 outlet PDU, 16A, IEC 320 20*C13+4*C19		
7: DC12V 24AH batteries 6PCS	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		

GLOBAL FOOTPRINT



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