



Data Center solutions

01

iSmart series
single cabinet data center



Size: 600*1200*2000 (Popular, IT cabinet)

Size: 800*1200*2000 (Network cabinet)

Load 3~5kW

Extend to 7kW



Small control room



School



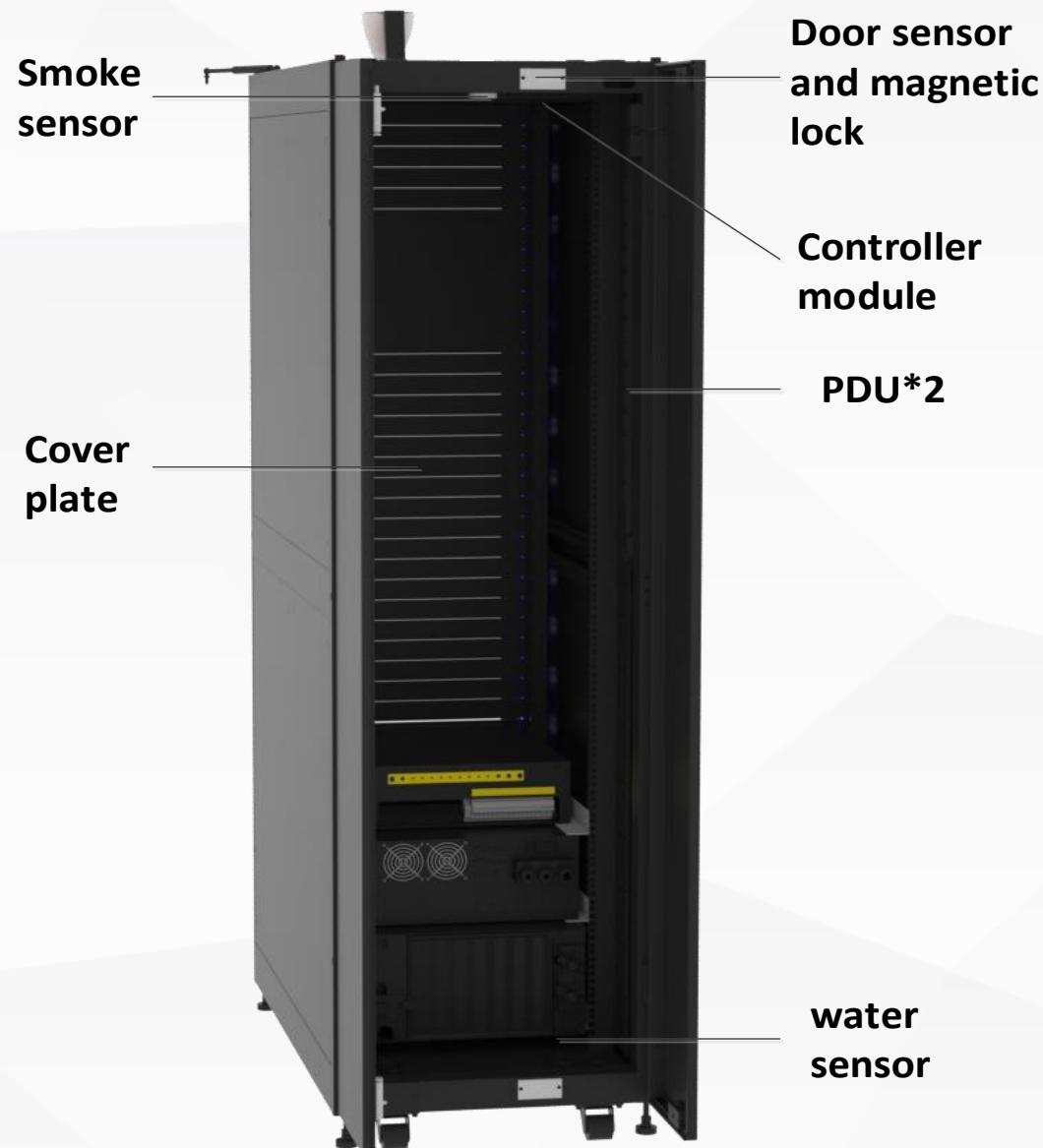
Bank

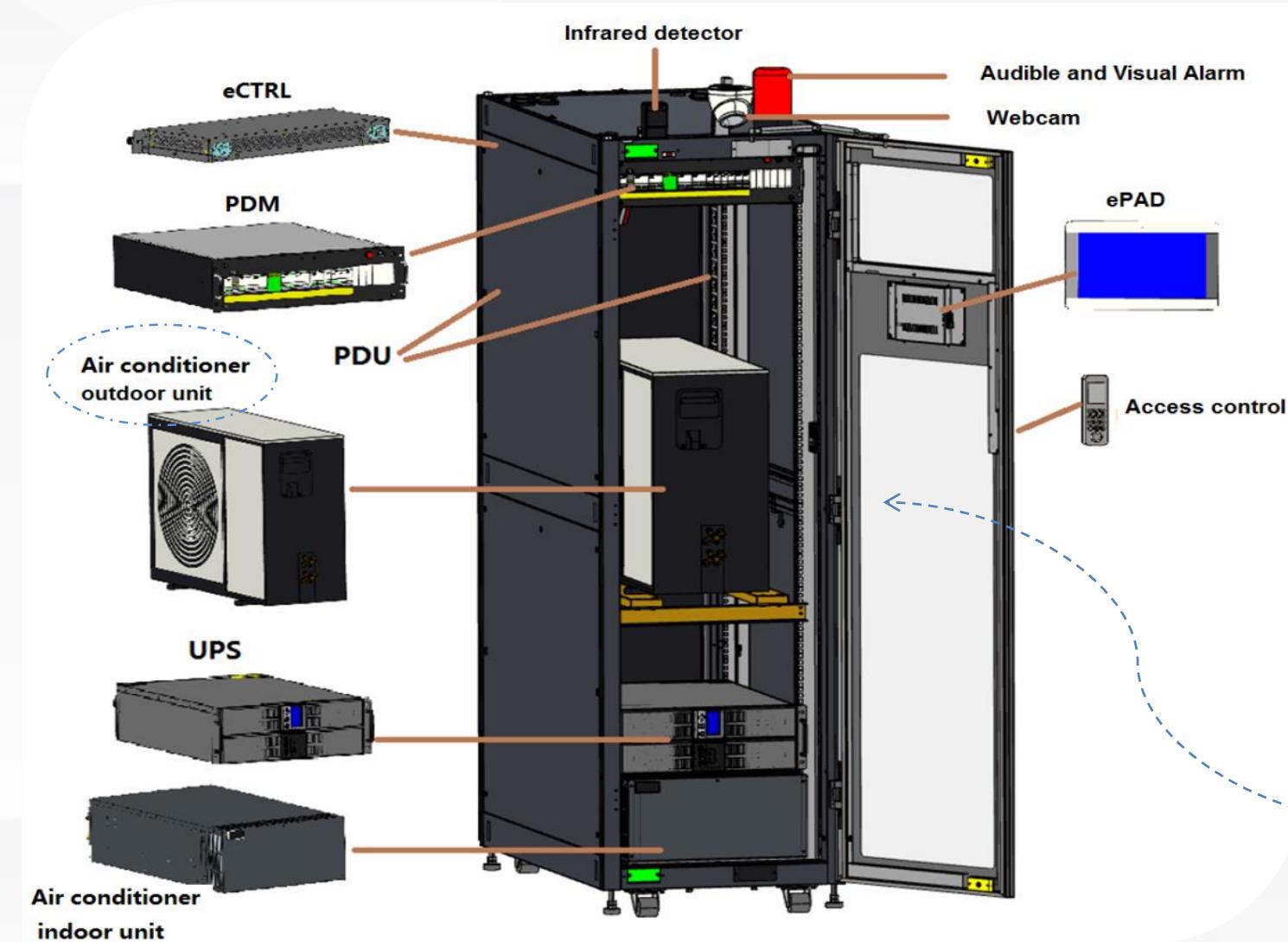


Radio station

iSmart series

inv





Easy shipping

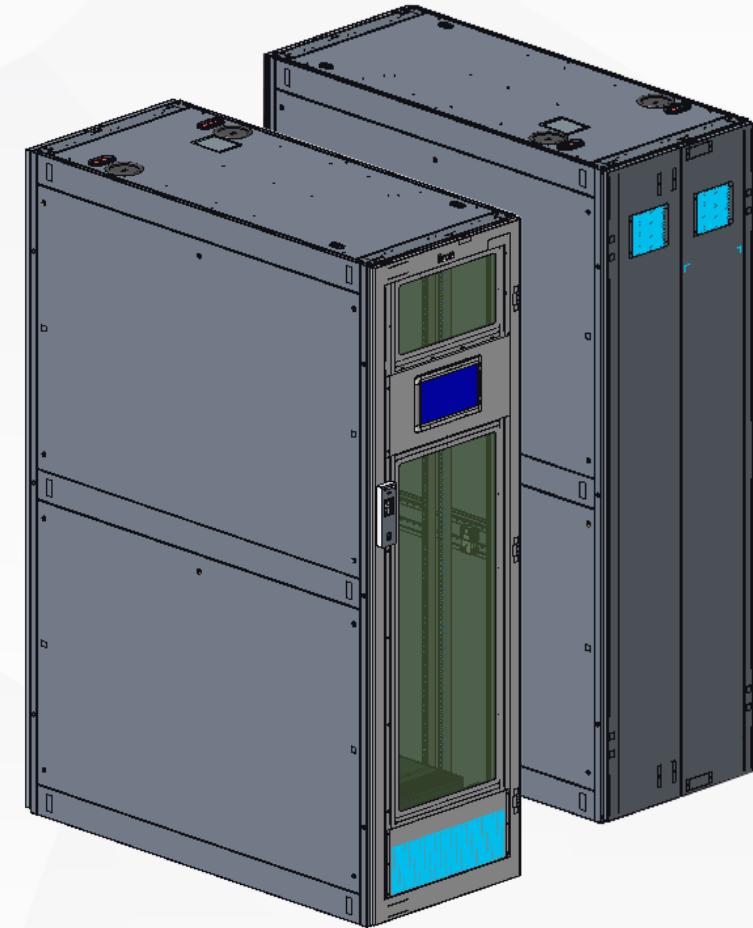


Top & bottom cable entry (Split cooling)

Top cable entry (Integrated cooling)

Emergency door opening (standard)

Emergency fan (customized)



iSmart series



Long time backup UPS



HR1103XL



HR1106XL / HR1110XL

iSmart series



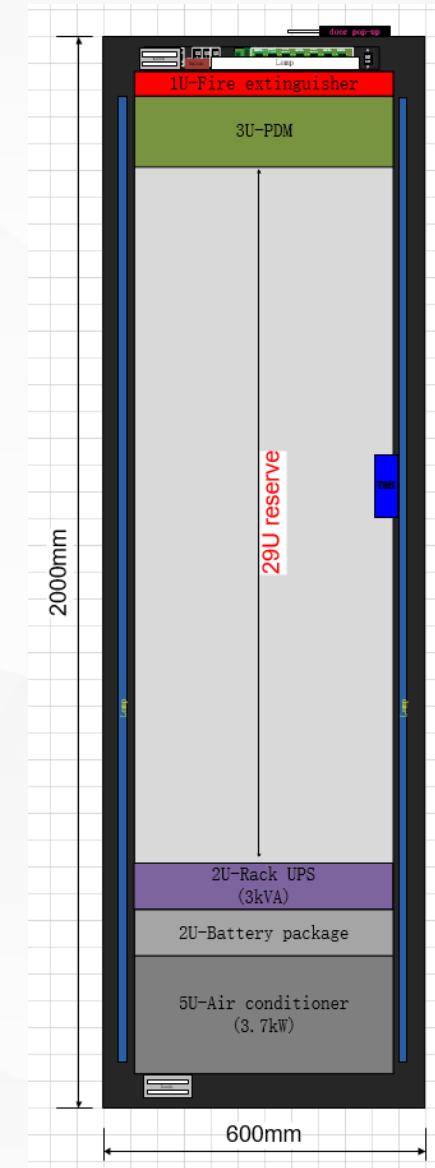
Standard backup UPS



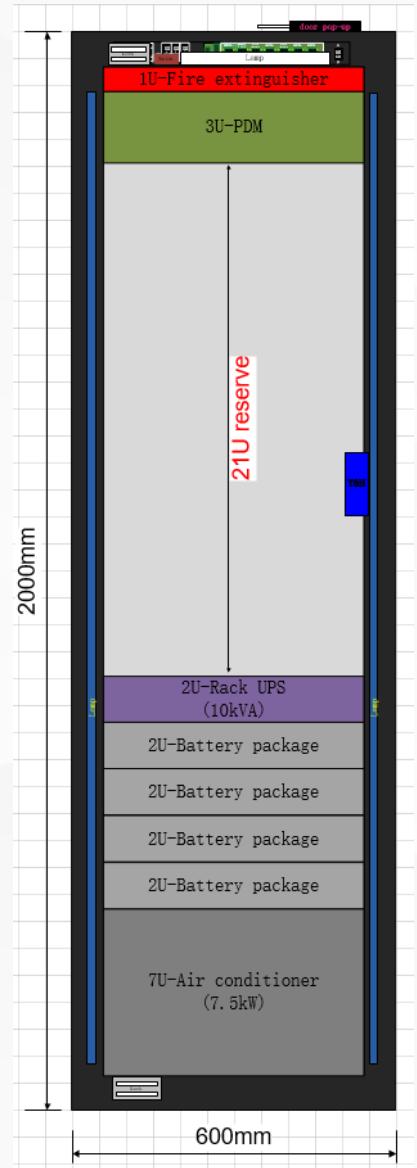
HR1103XS
inside battery



HR1106XS / HR1110XS
inside battery



e.g.



iSmart series

Air conditioner

invt

5U



Split type 3.7kW
with outdoor unit

7U



Split type 7.5kW
with outdoor unit

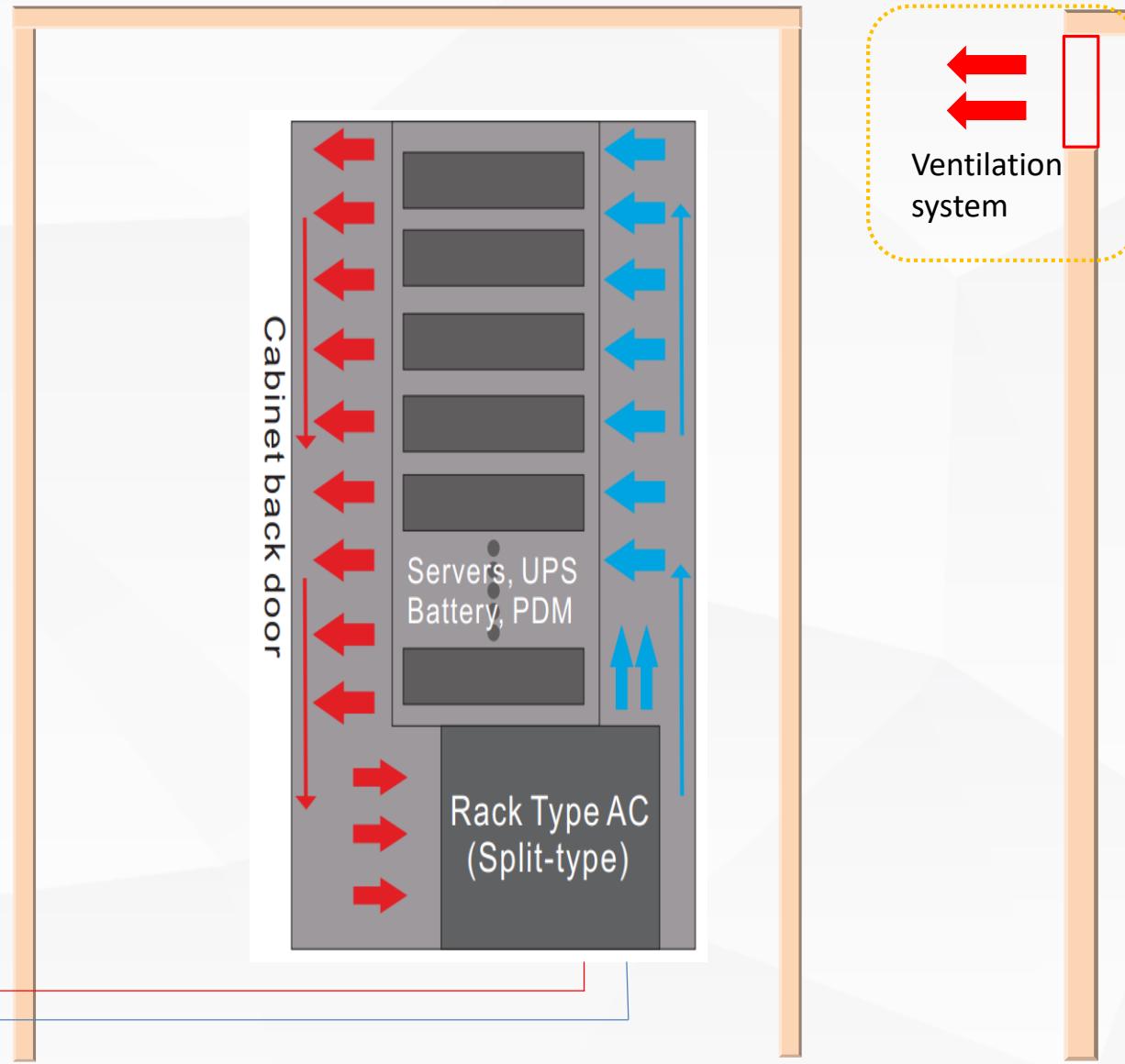
8U / 9U



Integrated type 3.7kW
Fixed frequency/
variable frequency

Application

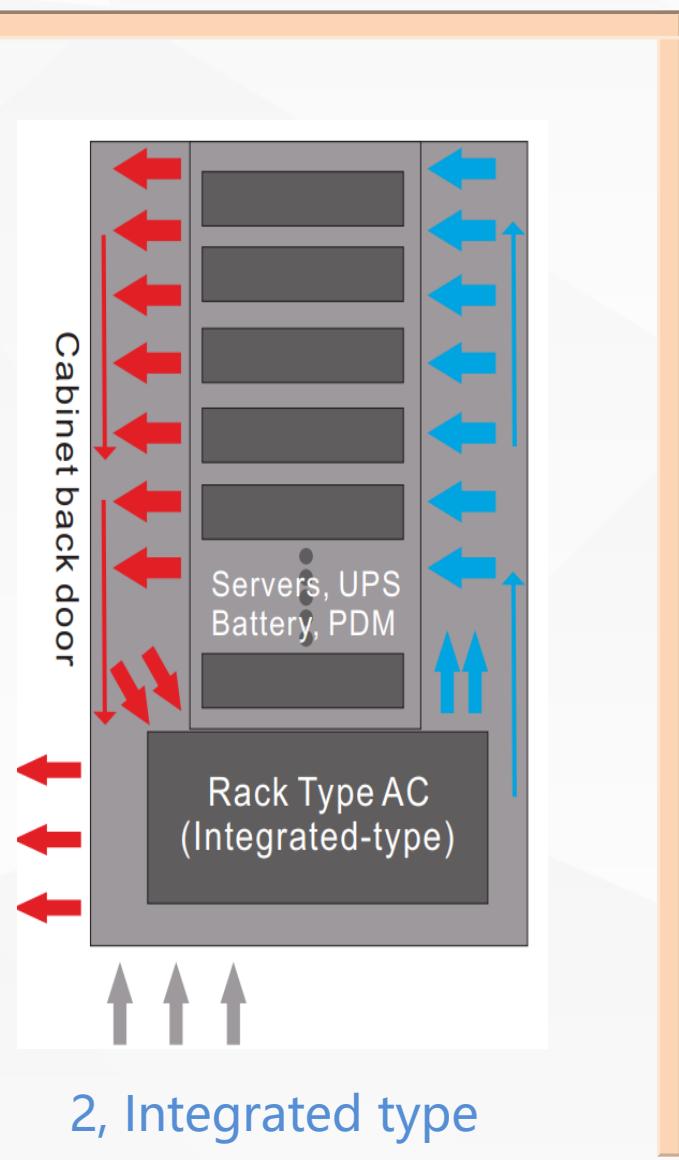
1, Split type



Outside

room

2, Integrated type



room

iSmart series

Integrated type

inv



At the bottom
Solution A



At the top
Solution B

Power distribution modular (PDM)

PDM



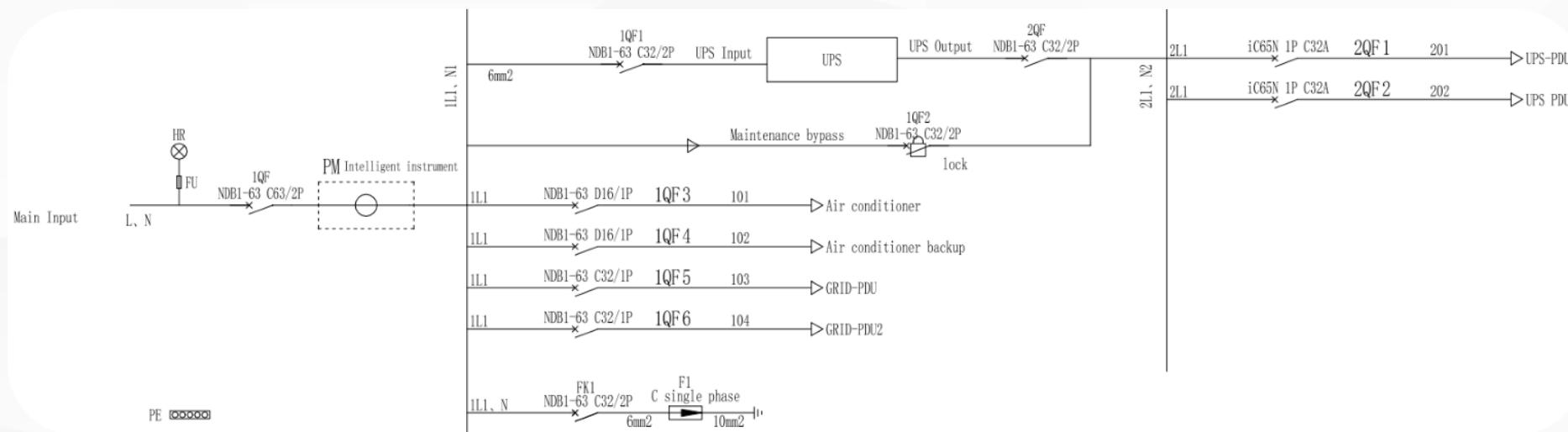
OnLine Equip: 1#

Integrated Alarm : Normal

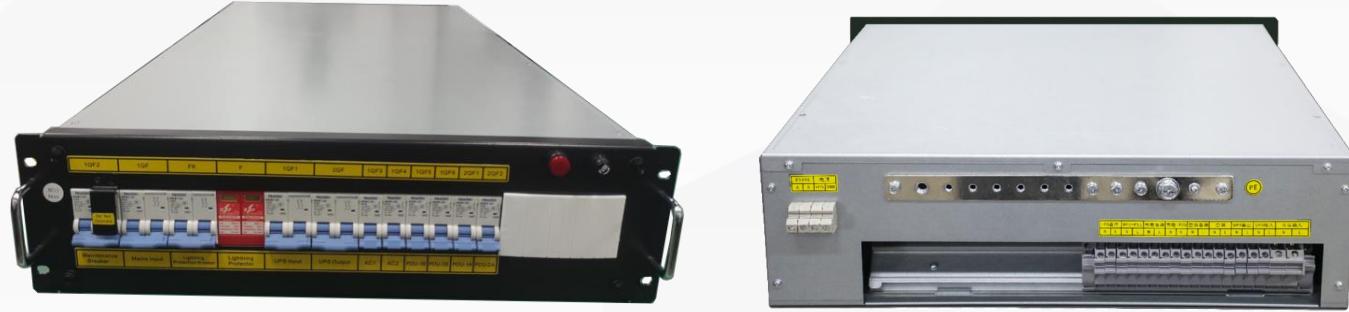
ΣPositive Active Energy(kW·h)	49	Phase Voltage(V)	234.2
Current(A)	1.4	Frequency(Hz)	50.02
Power Factor	0.53	Active Power(kW)	0.1
Apparent Power(kVA)	0.3		

Monitoring (simple)

Diagram

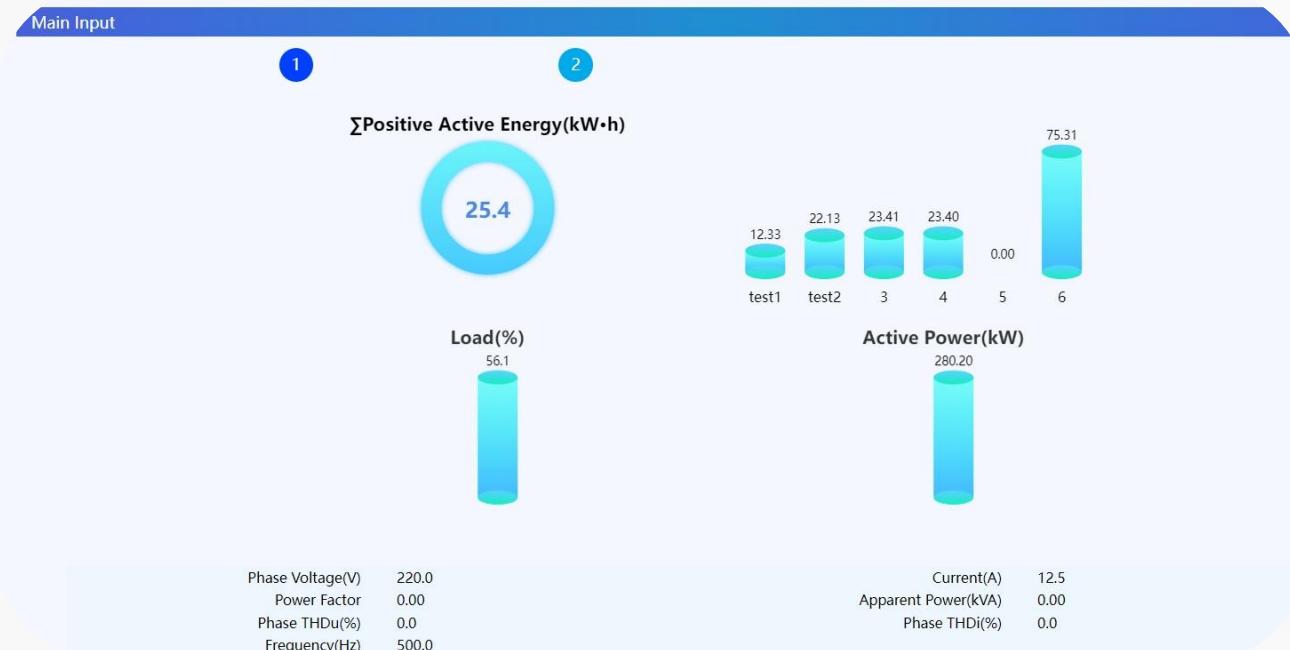


Power distribution modular (PDM)



Suitable with the loads
5kW or 7kW

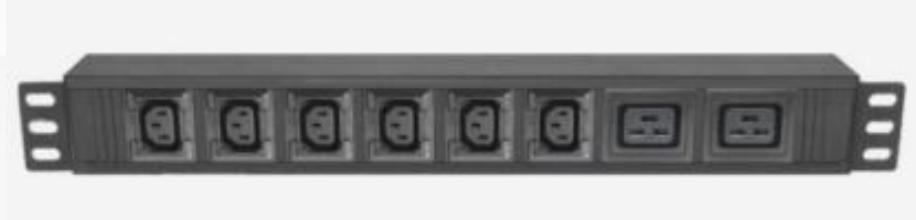
Customized with
power meter



iSmart series

inv

Power distribution unit (PDU)



IEC standard
250V



UK standard
250V



German standard
250V



NEMA standard
125V

Intelligent PDU optional

iSmart series



Monitoring components



Access control
(4 in 1)



Temp & Hum sensor



Water leakage
sensor



Smoke sensor



Infrared sensor
(Optional)



Audible and visual alarm
(Optional)

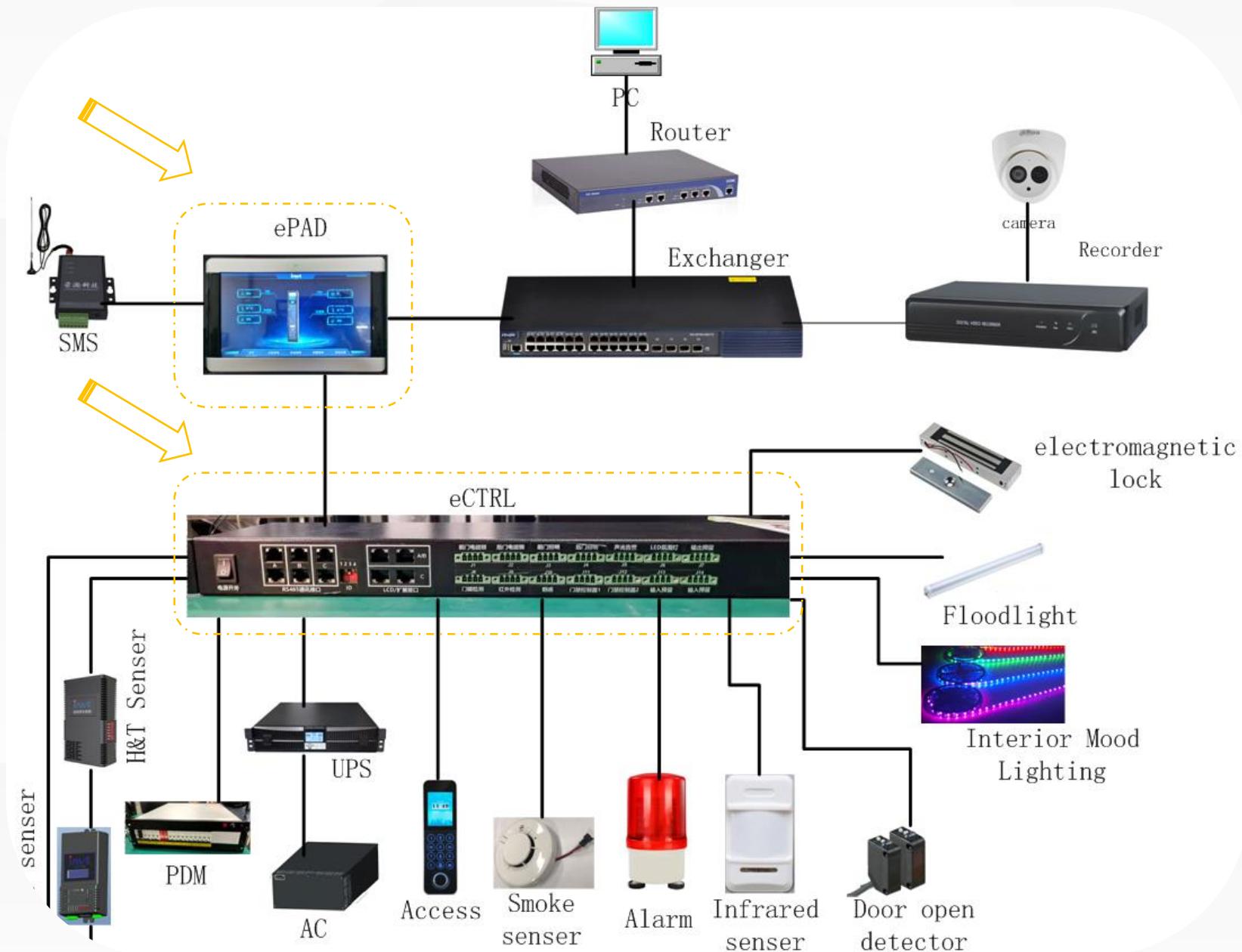


Webcam
(Optional)



SMS alarm
(Optional)

Monitoring system



iSmart series

inv

Monitoring system



LCD Screen



Web monitoring

iSmart series



Monitoring system

Overview UPS PD Sys AC Exp Equip Alarm Data

1#UPS Current Status : Alarm 1#AC Current Status : Normal 1#Power Meter Current Status : Normal 1#Temp. & Hum. Current Status : Normal 1#Leak Sensor Current Status : Normal 1#SMS Current Status : Normal 3# Current Status : Normal 1#4樓

Bypass
Voltage(V) 232.8
Current(A) 0.0
Frequency(Hz) 50.02

Main Input
Voltage(V) 234.7
Current(A) 1.4
Frequency(Hz) 50.01

Battery
Capacity(%) 100.0
Voltage(V) 216.4
Current(A) 0.4
Remaining Time(Min) --:--

Load
Apparent Power(kVA) 0.0
Active Power(kW) 0.0
Load Percentage(%) 0.3

Output
Voltage(V) 229.9
Current(A) 0.0
Frequency(Hz) 50.01

Current Status

REC Fail	Normal	Bypass Fail	Normal	Battery Volt Low	No	Load On Source	Load On UPS
Utility Abnormal	Normal	Bypass Voltage	Normal	Battery EOD	No	Output Shorted	No
Fan Fail	Normal	Bypass Frequency Fault	Normal	Battery Connect Status	Normal	EPO	No EPO
Temperature Error	Normal	Bypass Over Load	Normal	Battery Test Result	No Test	Invertor Fault	Normal
		Bypass Sequence	Normal	Battery Maintenance Result	No Maintain	Invertor Overload	Normal
		Maintain Cb Status	Opened	Battery Status	Float Charging		

Home 5:04

Online-rate 55% Alarm-rate 36%

Total 0 Online 0 Total 0 Alarm 0

Curr Alarm
test_0413 Alarm Type Q

< Pre 0/0, total 0 counts Next >

No alarm

Trend Map of Alarm

Home Data Center Alarm

Back Data Center 5:10

eMTR list

UPS
1# Active power(… 11.6/6.3/6.2 Load Rate(%) 10.6/5.8/5.6
2# Active power(… 0.0/0.0/0.0 Load Rate(%) 0.0/0.0/0.0

Distribution

1#MDC

Air conditioner
1# Return air tem… 24.1 Air supply tem… 0.0
2# Return air tem… 28.7 Air supply tem… 0.0

Temperature and humidity
1# temperature(°C) 28.5 humidity(%RH) 60.9
2# temperature(°C) 27.4 humidity(%RH) 69.0

Water immersion
1# state Normal 2# state Normal

Web monitoring equipments

APP monitoring

02

iWit series
single row data center

2-15 cabinets

loads up to 75kW

Size: 600*1400*2000mm
*Size: 800*1400*2000mm



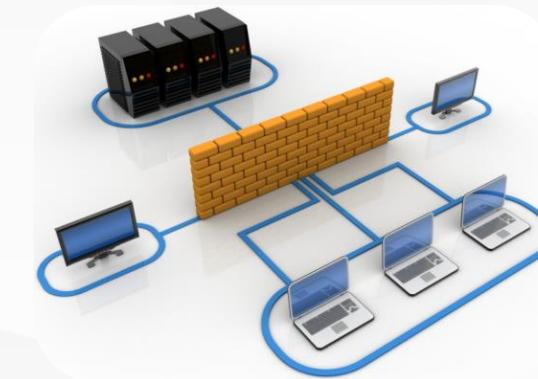
Application



Hospital



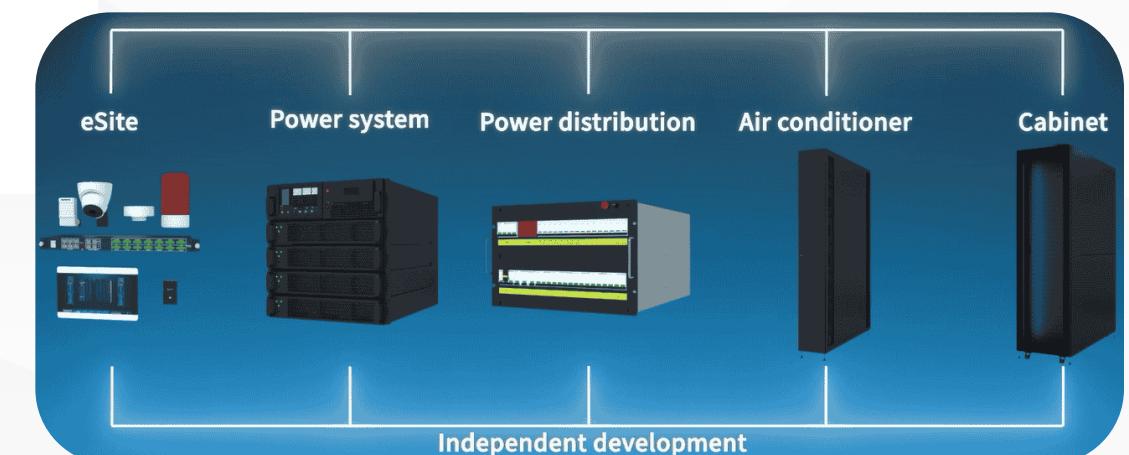
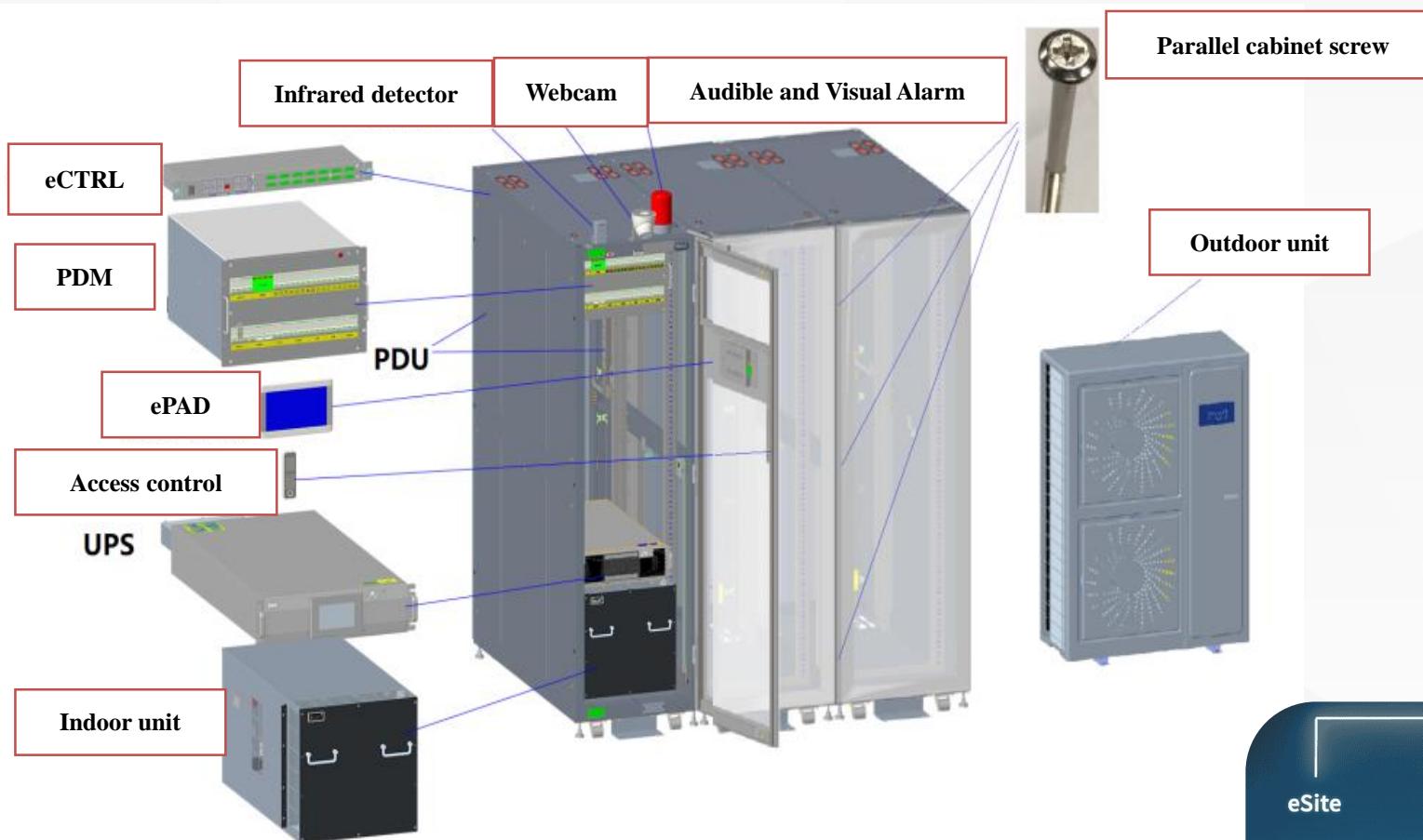
Small &medium enterprise



Medium and large
control room



Communication Industry

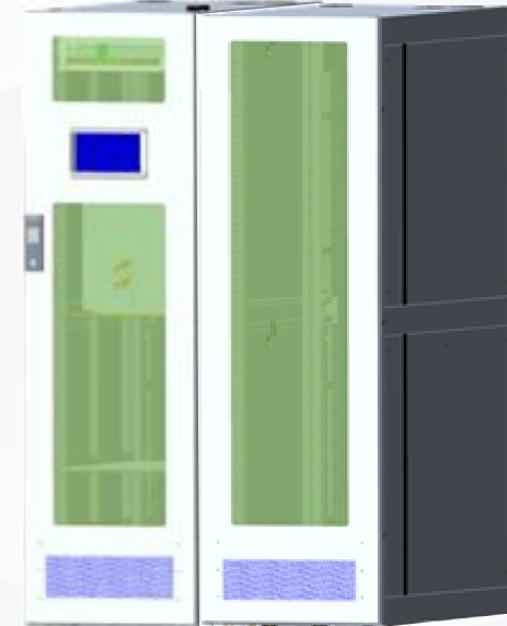




Emergency door opening (standard)

Split cooling solutions (standard)

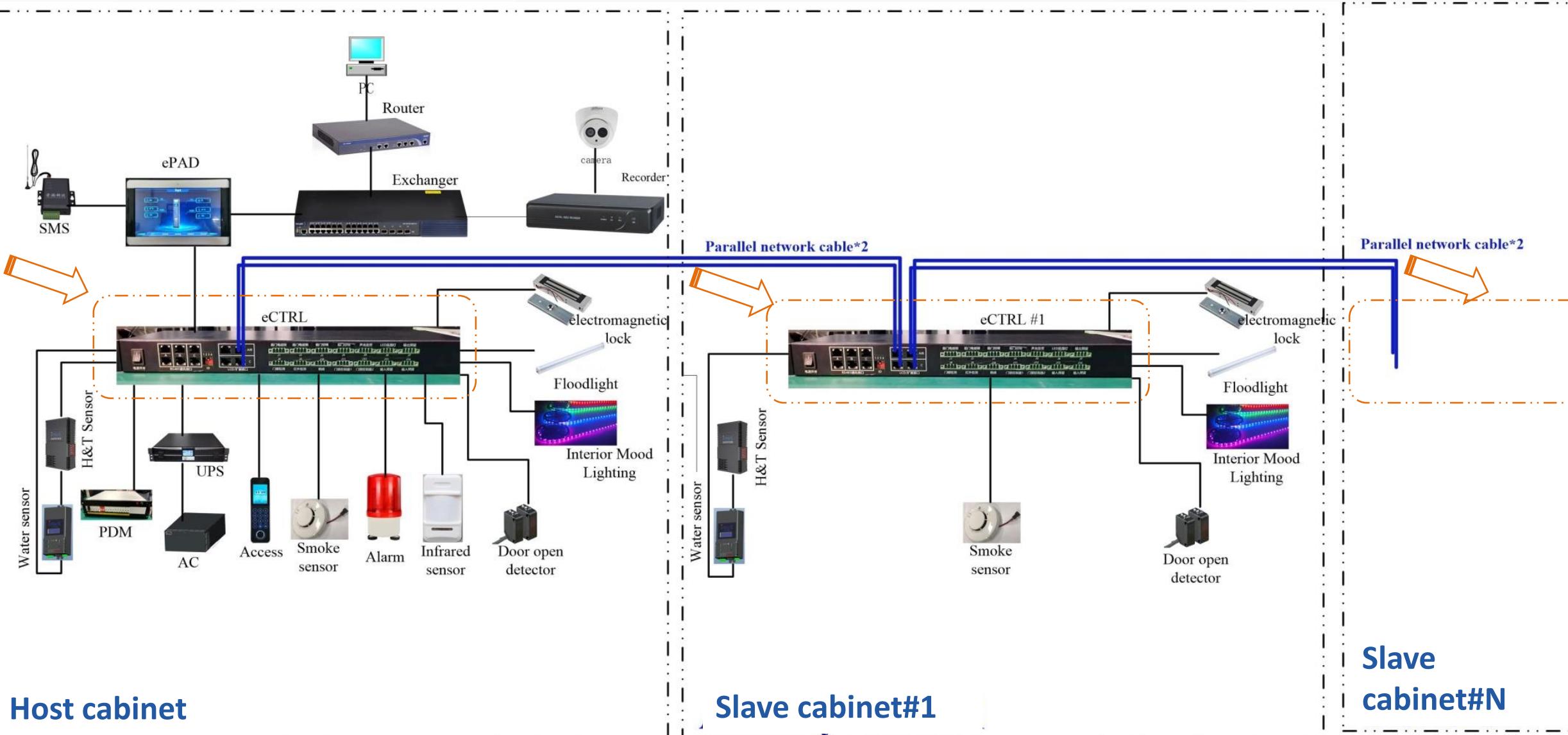
Top & bottom cable entry



Emergency fan (customized)

Integrated cooling solutions (customized)

Monitoring system



UPS



HR31 15~20kVA



HR33 10-40kVA

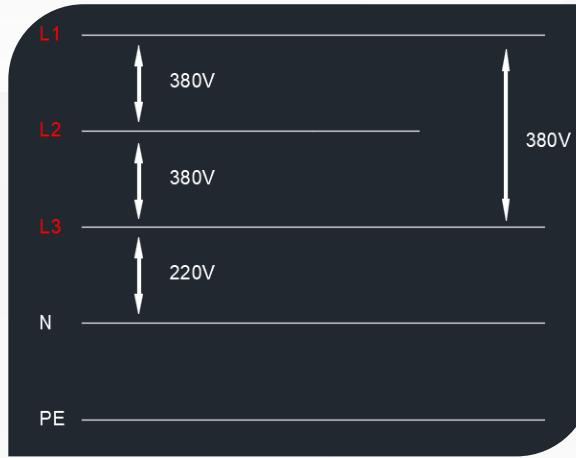


Modular UPS 10-90kVA

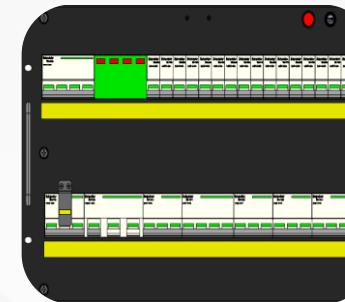


Battery solutions

Power distribution



3U PDM



10U PDM



13U PDM

Breaker: China brand or Schneider

iWit series

Air conditioner

invt



7U

Split type
7.5kW



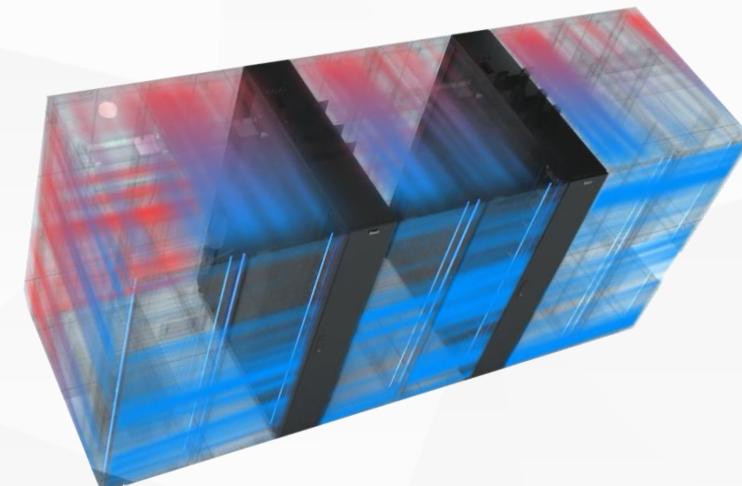
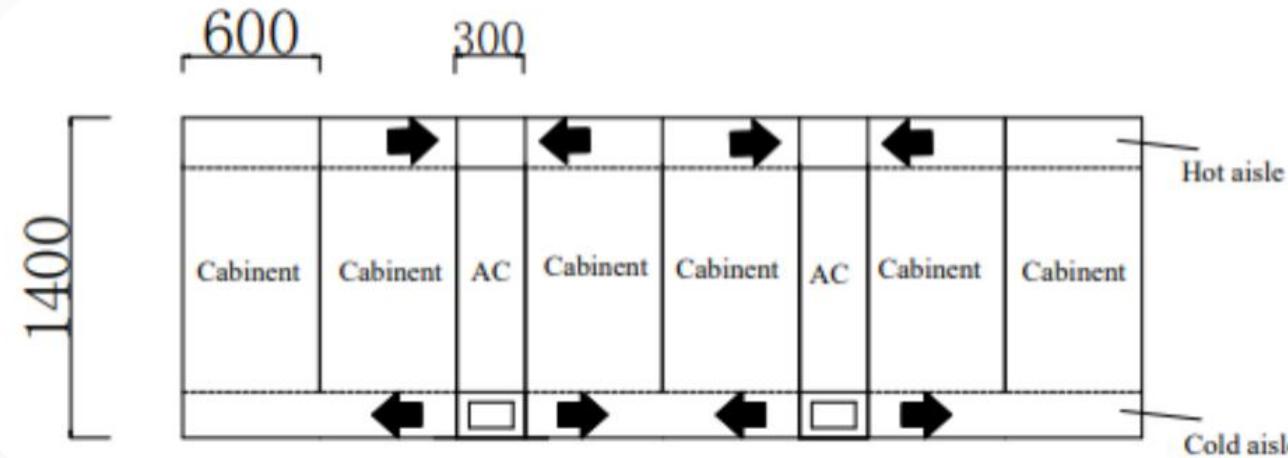
10U

Split type
12.5kW



In-row
12.5~25kW

Enclosed cold and hot aisle



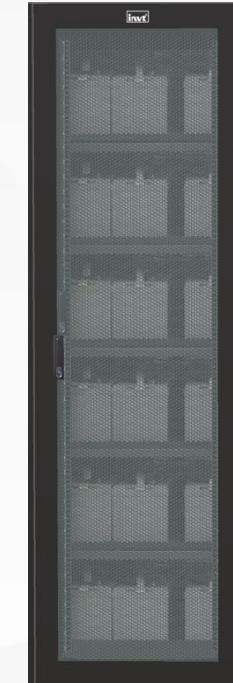
Solutions e.g.



Double
Cabinets



Multiple
cabinets



Rack battery
Cabinets



iTalent series
dual row data center

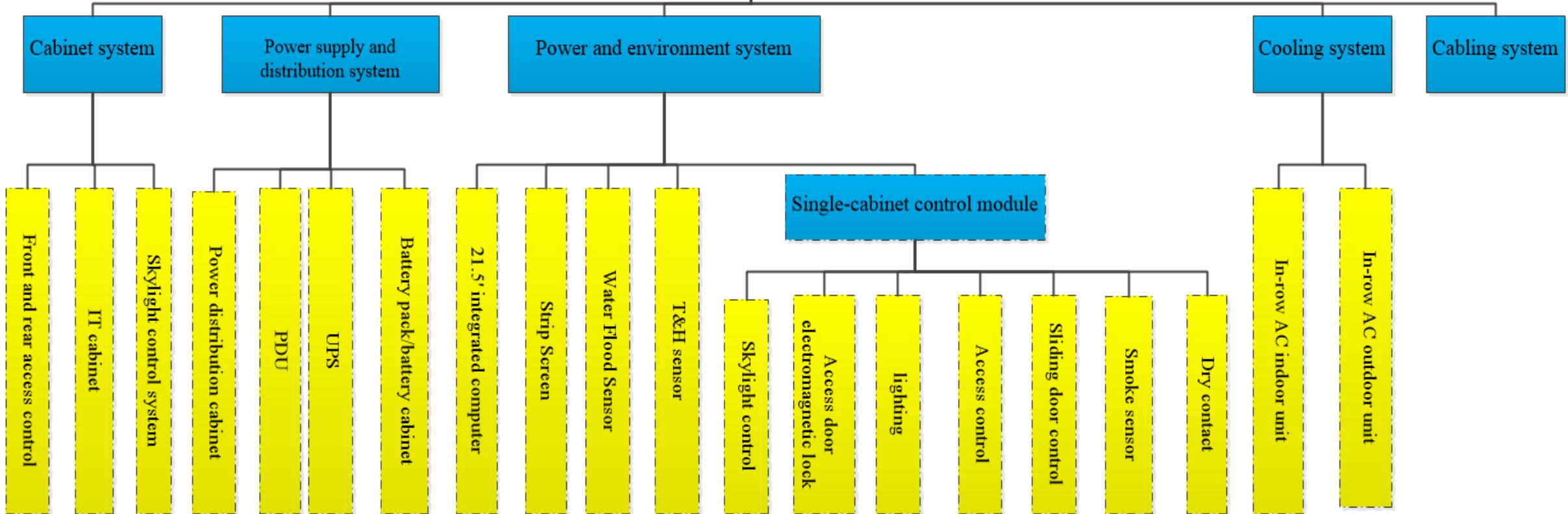


7~9kW /Cabinet

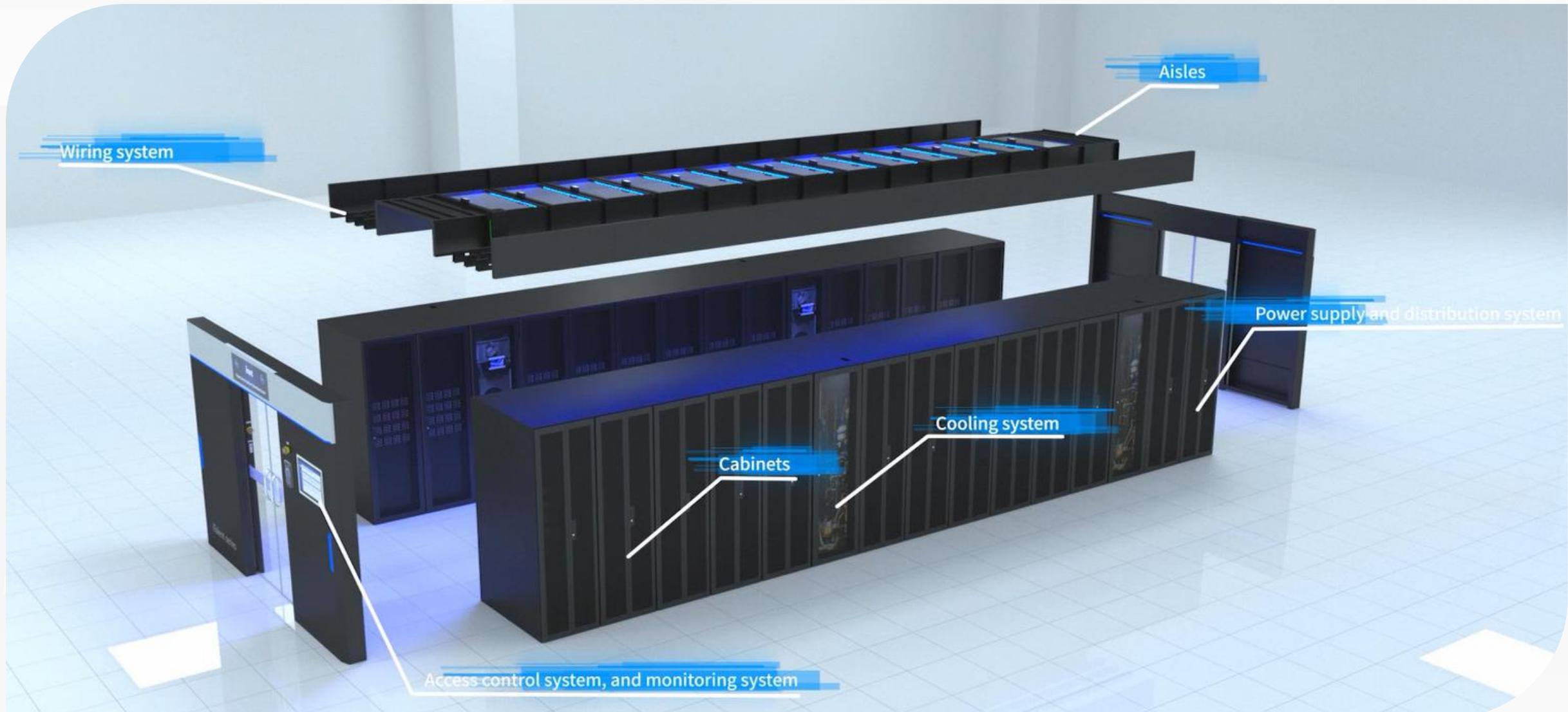
Max: 50 cabinets
length of aisle is 15m

Cabinet: 600*1200*2000mm
600*1100*2000mm

iTalent series medium and large data center



Layout



iTalent series

inv

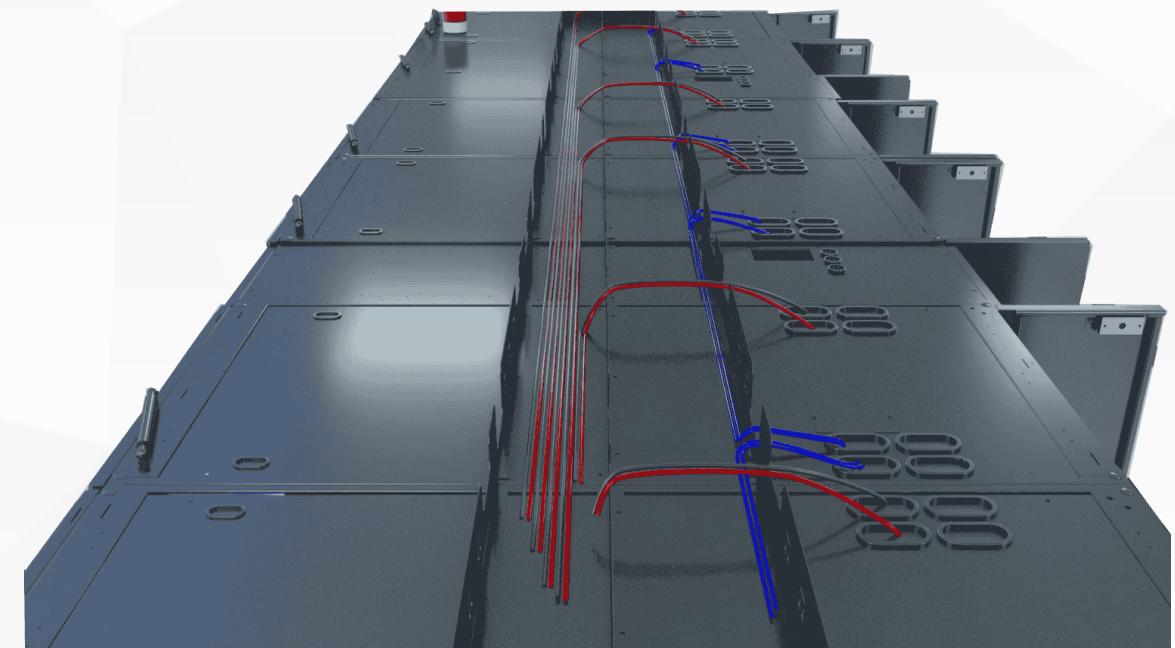
Display



iTalent series



Cable organizer



Wiring manager

iTalent series

inv



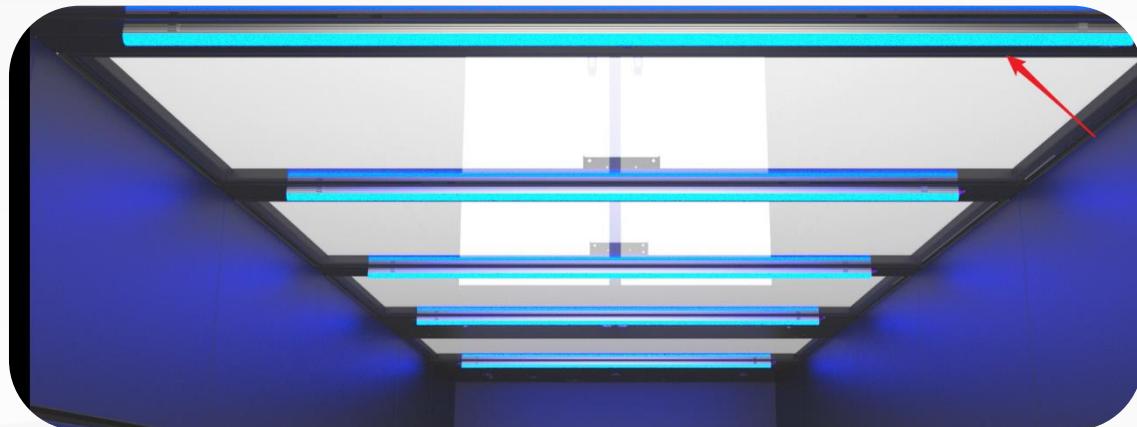
Door strip screen



Display & monitoring



iTalent series



Skylights & ambient LED



Emergency skylights opening

iTalent series



UPS



30-90kVA
Can be installed
inside cabinet



150-200kVA
Can be installed
inside cabinet



Exceed 200kVA
External UPS

iTalent series



Air conditioner



25kW-60kW
Installed **inside iTalent**

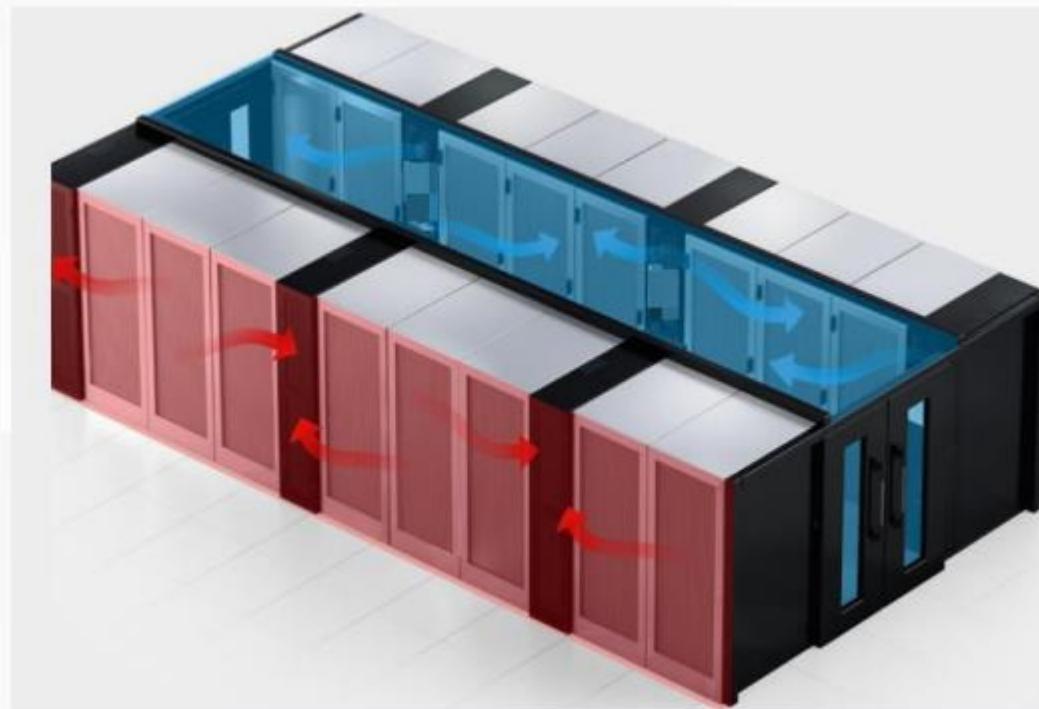
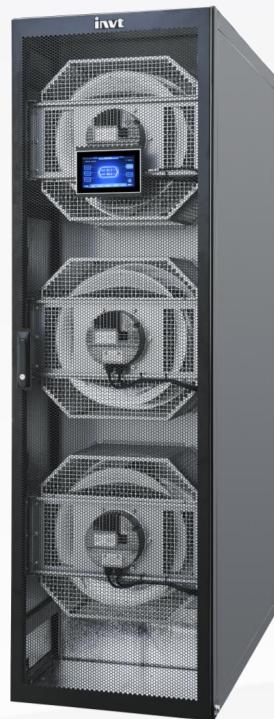


25kW-120kW
Installed **outside iTalent**

iTalent series



In-row air conditioner application



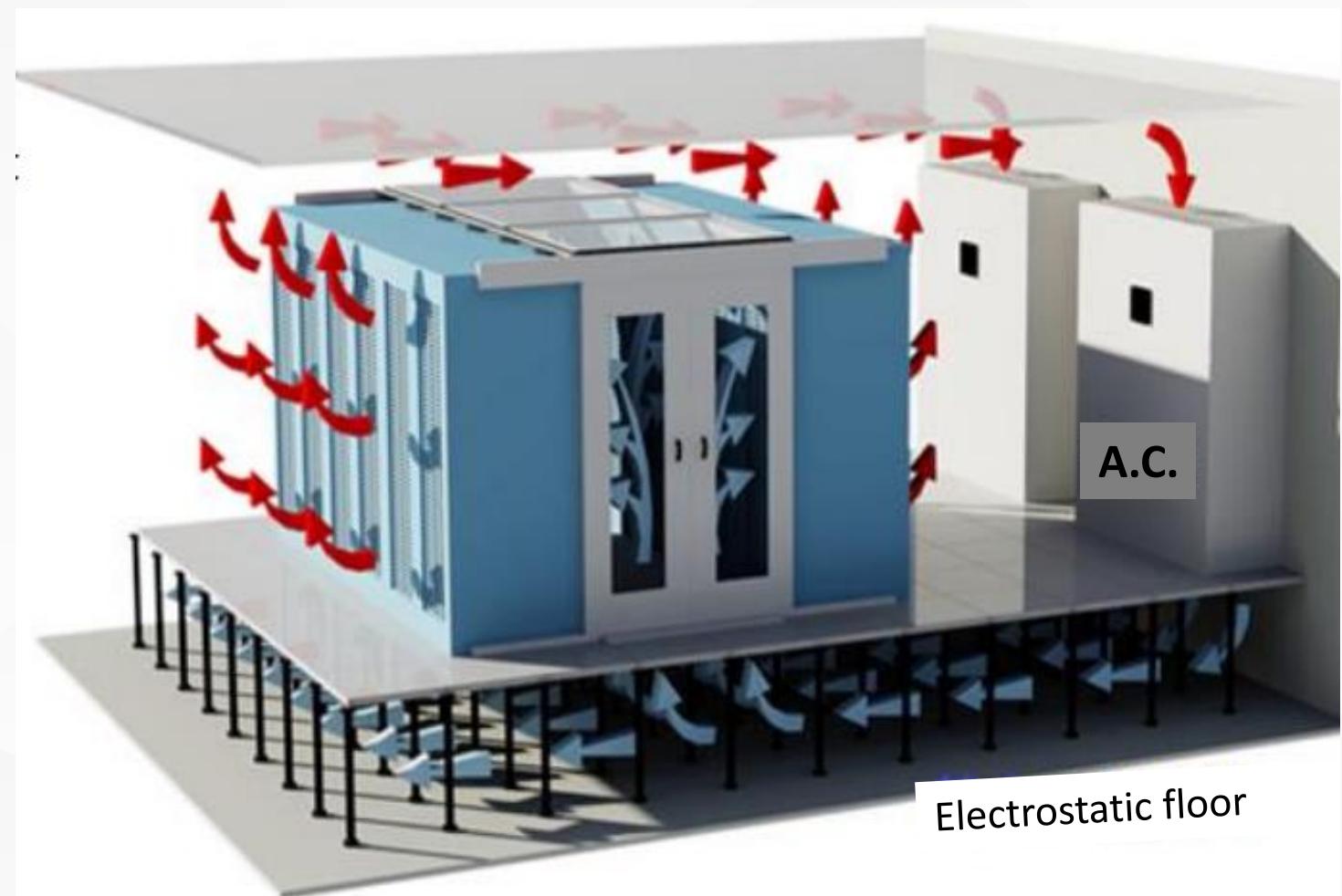
iTalent series

inv

Room air conditioner application



Traditional data center



iTalent series



Power distribution system

The integrated power distribution cabinet (IPDC)



Input breaker & Lightning protection switch

ATS (optional)

UPS input/ output/ bypass

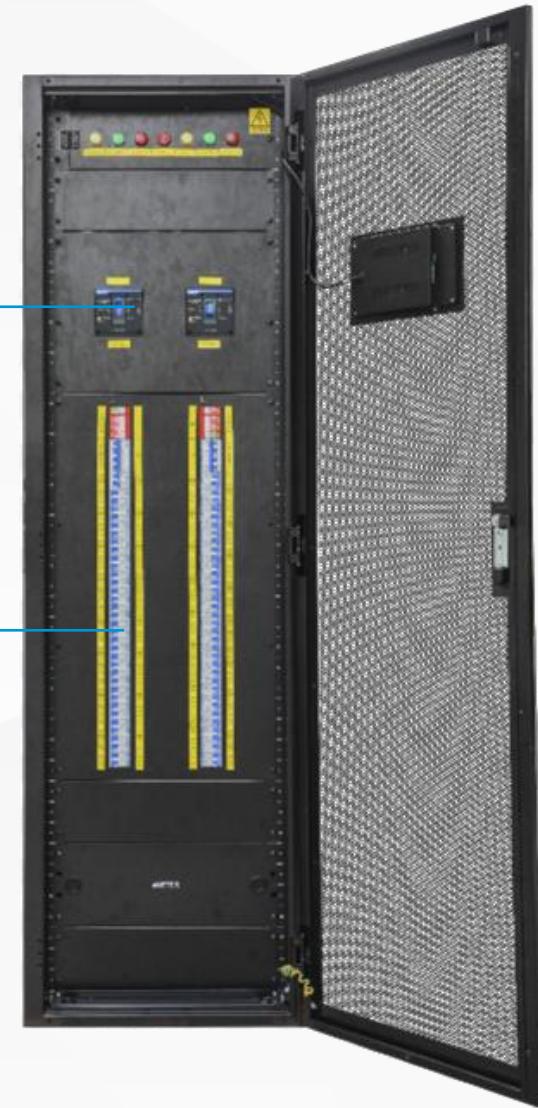
UPS 40-150kVA

Standard power meter & monitoring

Power distribution cabinet (PDC)

MCCB or ATS (optional)

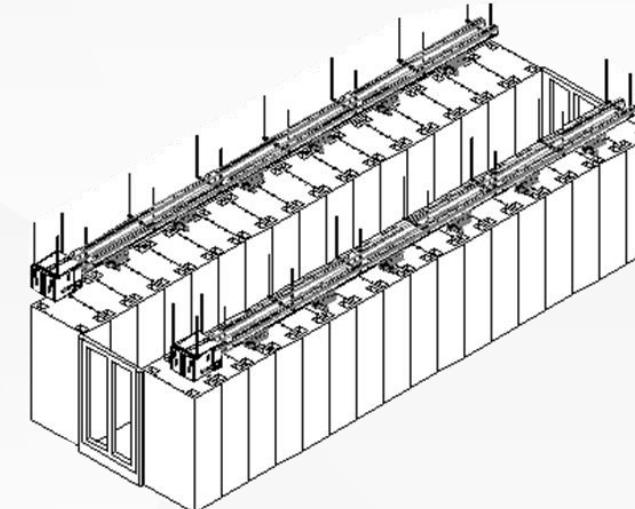
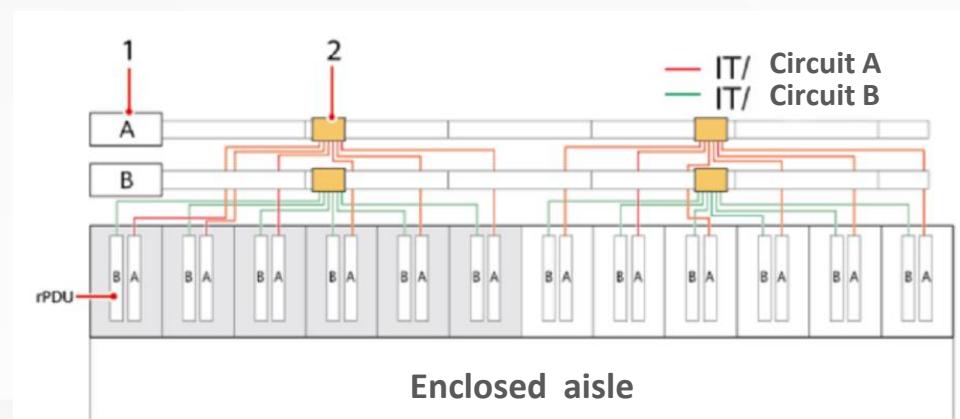
Support 144-ways MCB



iTalent series

inv

Busway (optional)



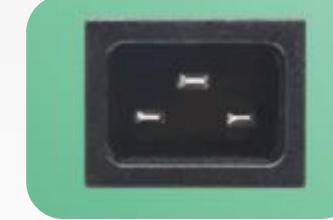
According to the project



Industrial waterproof plug

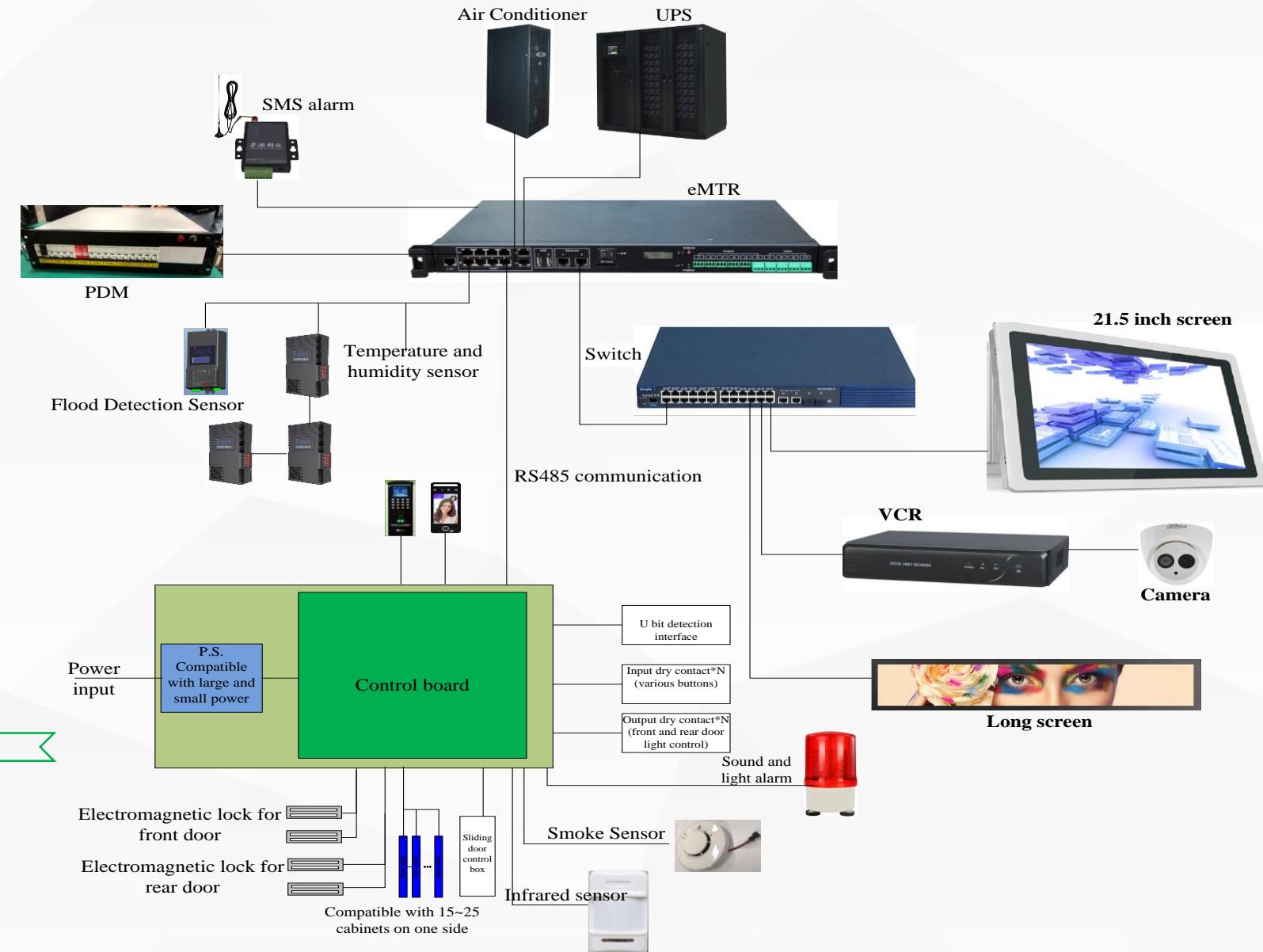


Junction box



Input cord plug type

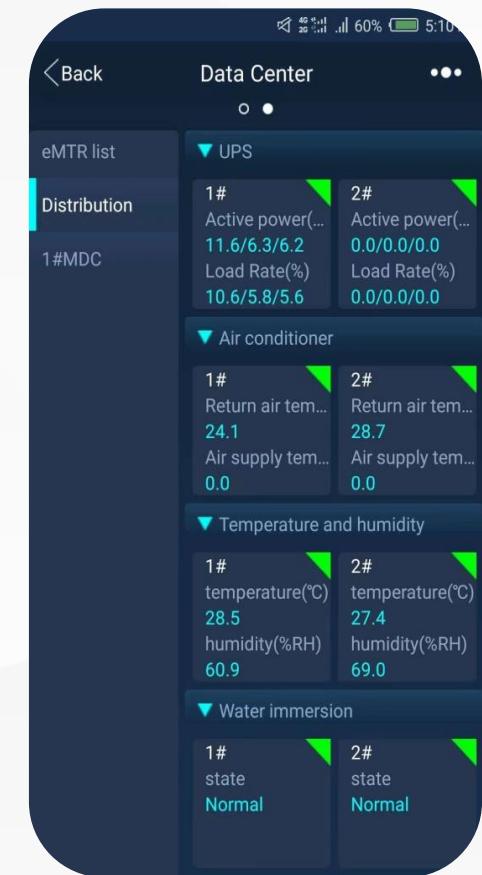
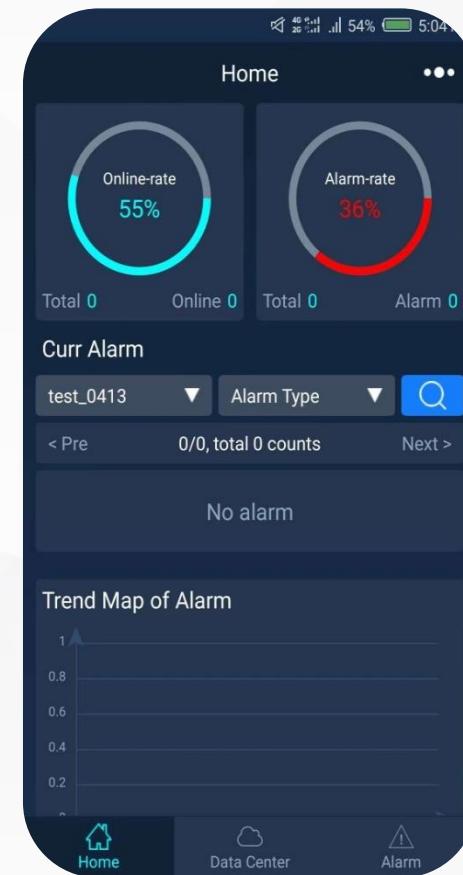
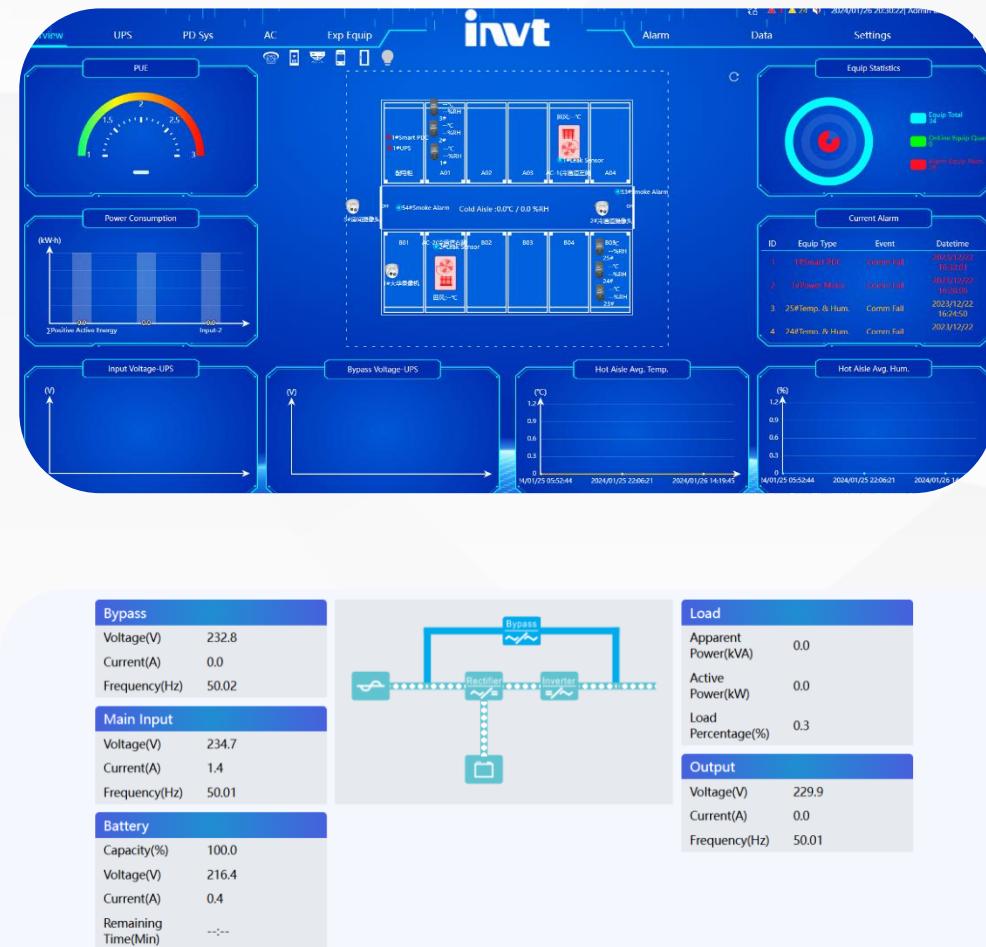
Monitoring system



iTalent series



Monitoring system



iTalent series

inv

Centralized monitoring



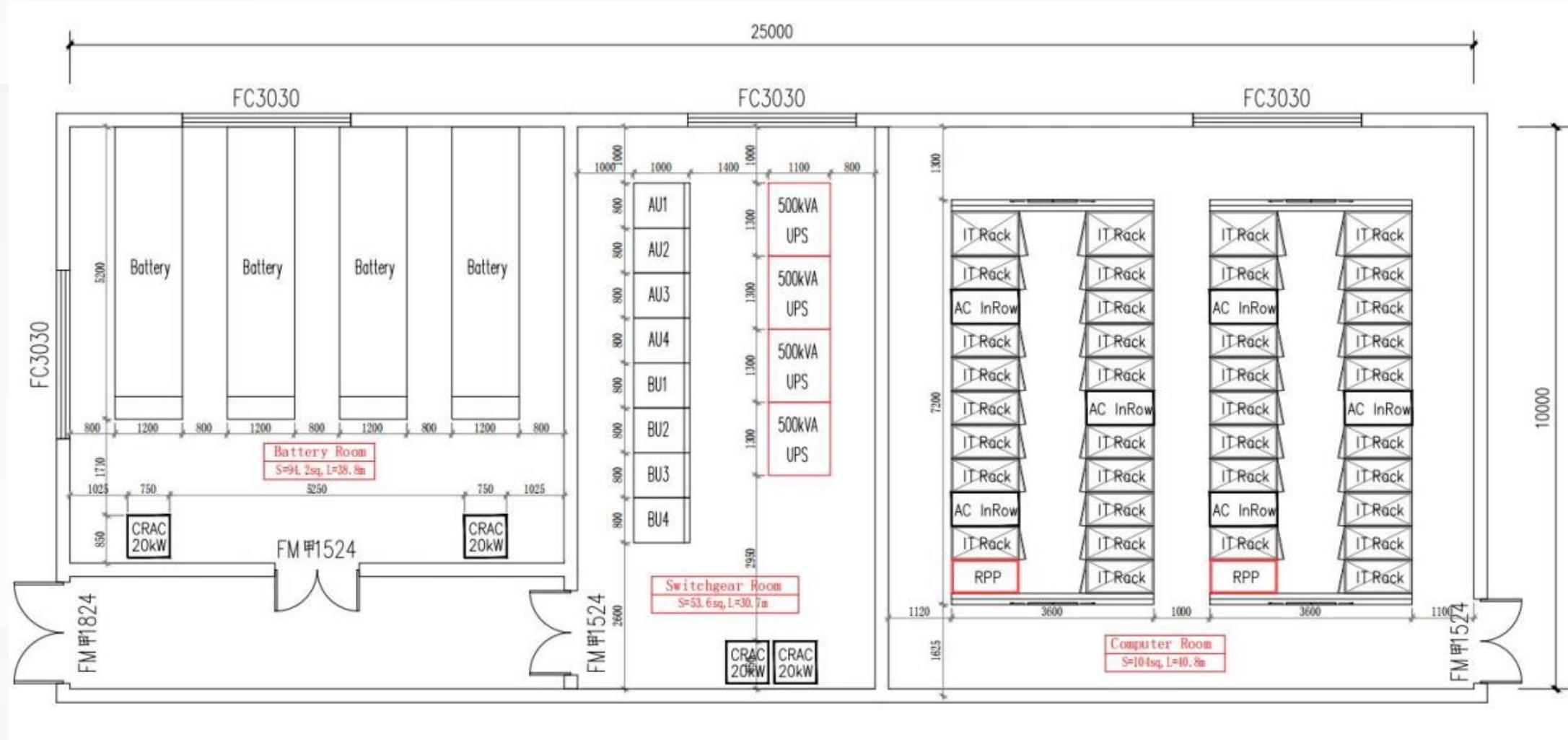
installation



- ▷ 01 Preparation for installation
- ▷ 02 Cabinet Installation
- ▷ 03 Skylight Installation
- ▷ 04-1 Automatic sliding door installation
- ▷ 04-2 Automatic sliding door wiring path
- ▷ 05 Manual sliding door installation -optional
- ▷ 06 M-shaped cable tray installation
- ▷ 07 Fences installation
- ▷ 08 Lintel sensor installation
- ▷ 09 Supervision system display installation
- ▷ 10 Extended control module installation
- ▷ 11 Skylight lamp installation
- ▷ 12 Installation of the exit buttons
- ▷ 13 Installation of the emergency power off's button
- ▷ 14 Access control installation
- ▷ 15 Face recognition installation -optional
- ▷ 16 Top strip screen installation
- ▷ 17 LED ambient light installation
- ▷ 18 Corridor infrared sensors installation



layout e.g.



04

iLegend series
container data center



20ft

H*W*L: 2896×2438×6058mm

2896×3000×6058mm

IT cabinet: 3 @27kW

4 @36kW



40ft

H*W*L: 2896 × 2438 × 12192mm

2896 × 3000× 12192mm

IT cabinet: 7 @63kW

10 @90kW

iLegend series

inv

Application



Sports events



Oil exploration

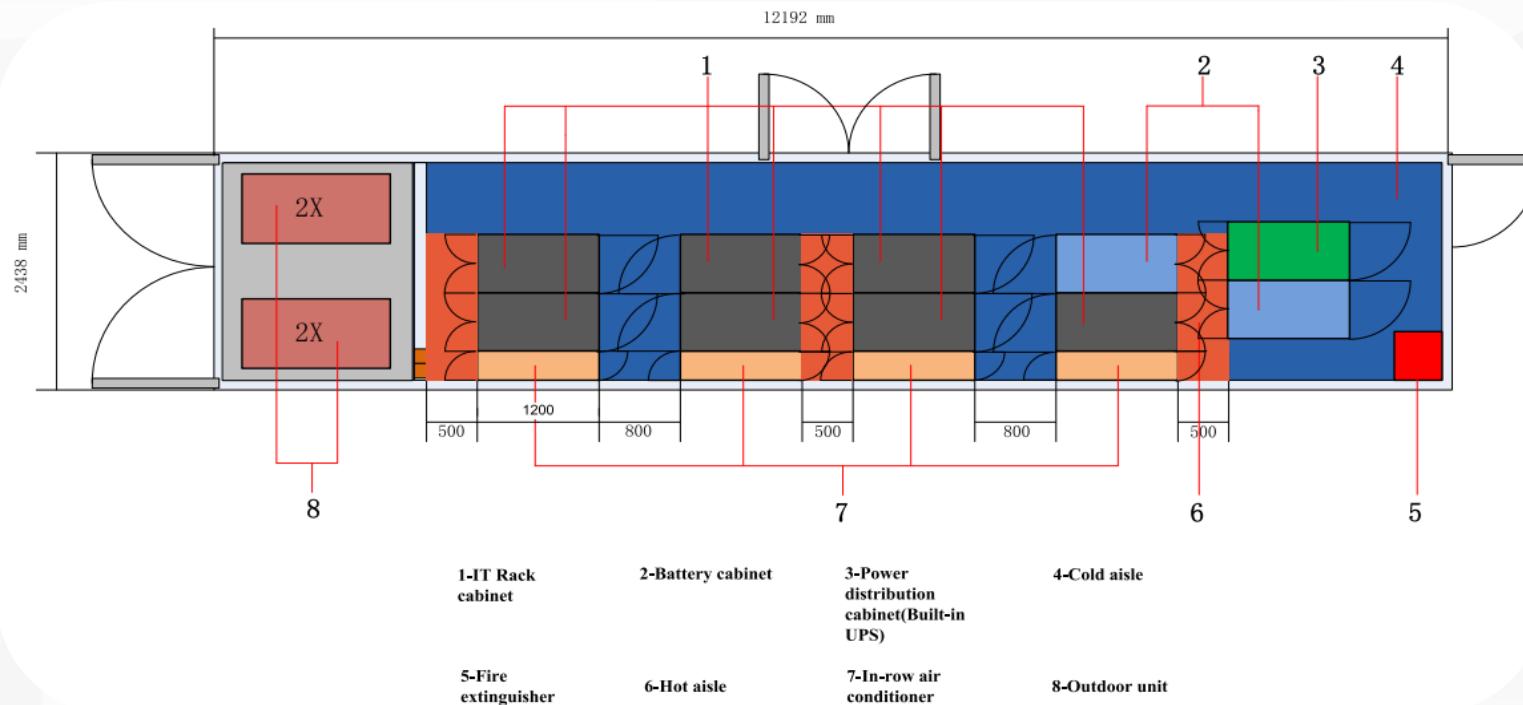


Marine scientific research

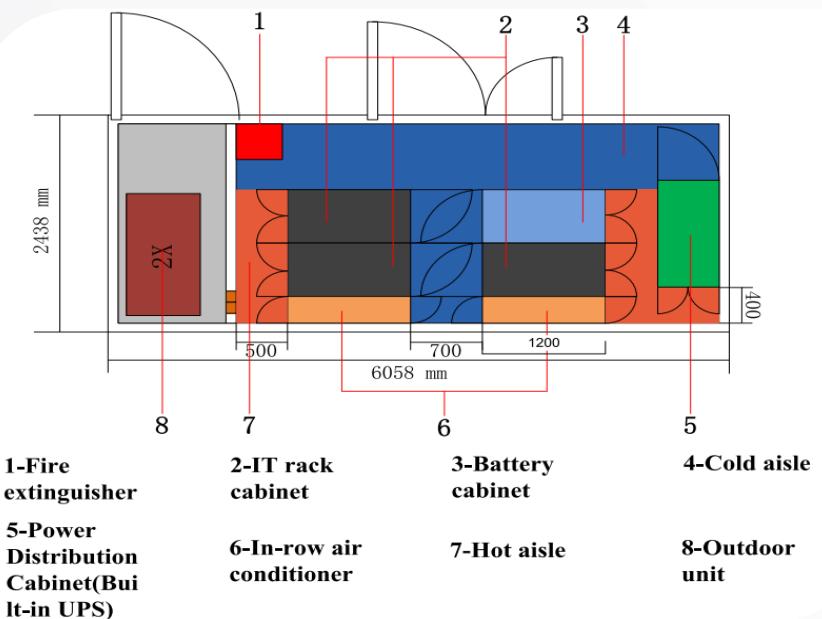


Emergency communications

40ft



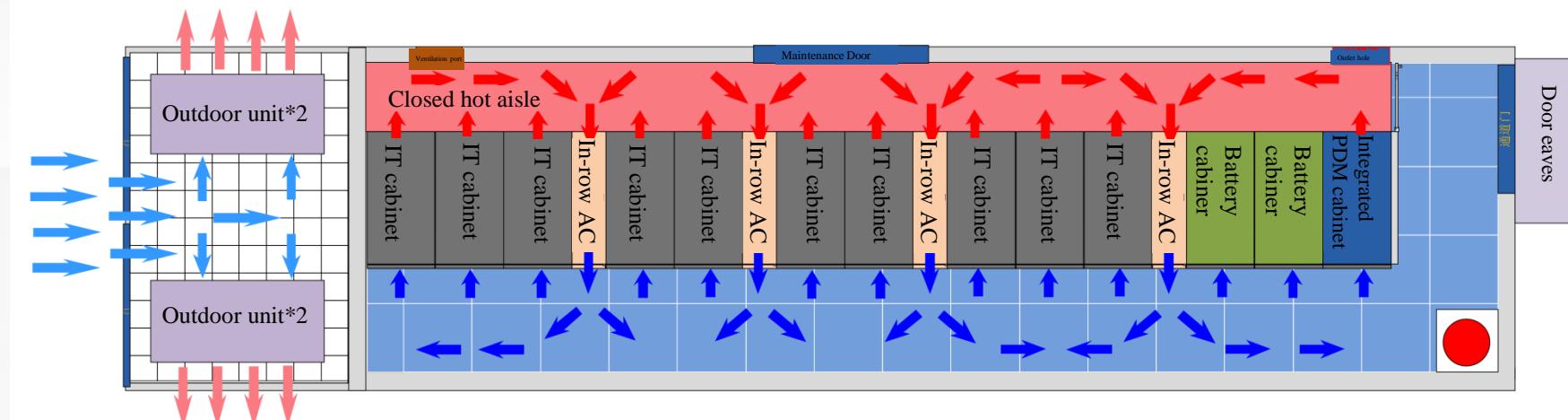
20ft



2.4m width solutions (standard container size)

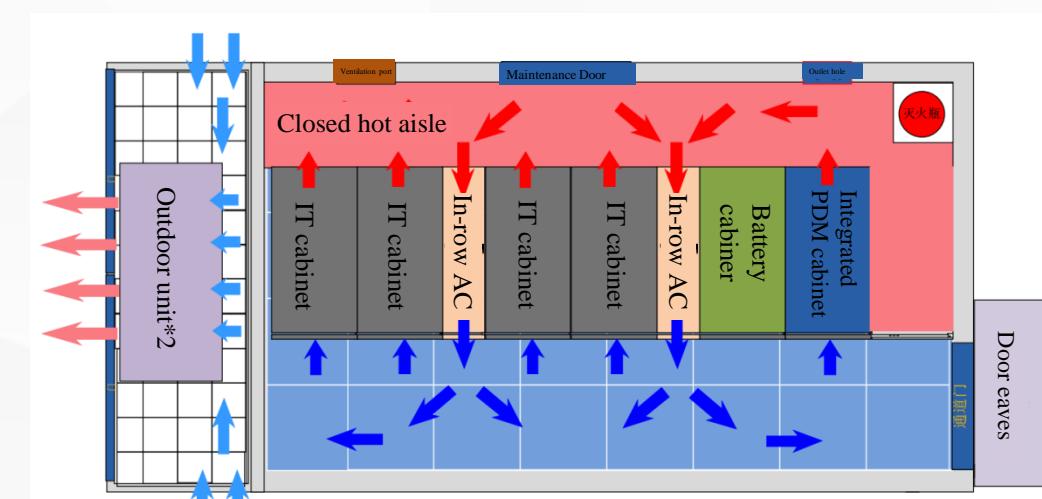
with in-row cooling

solutions



40ft @10 IT cabinet

3m width
solutions
with in-row cooling

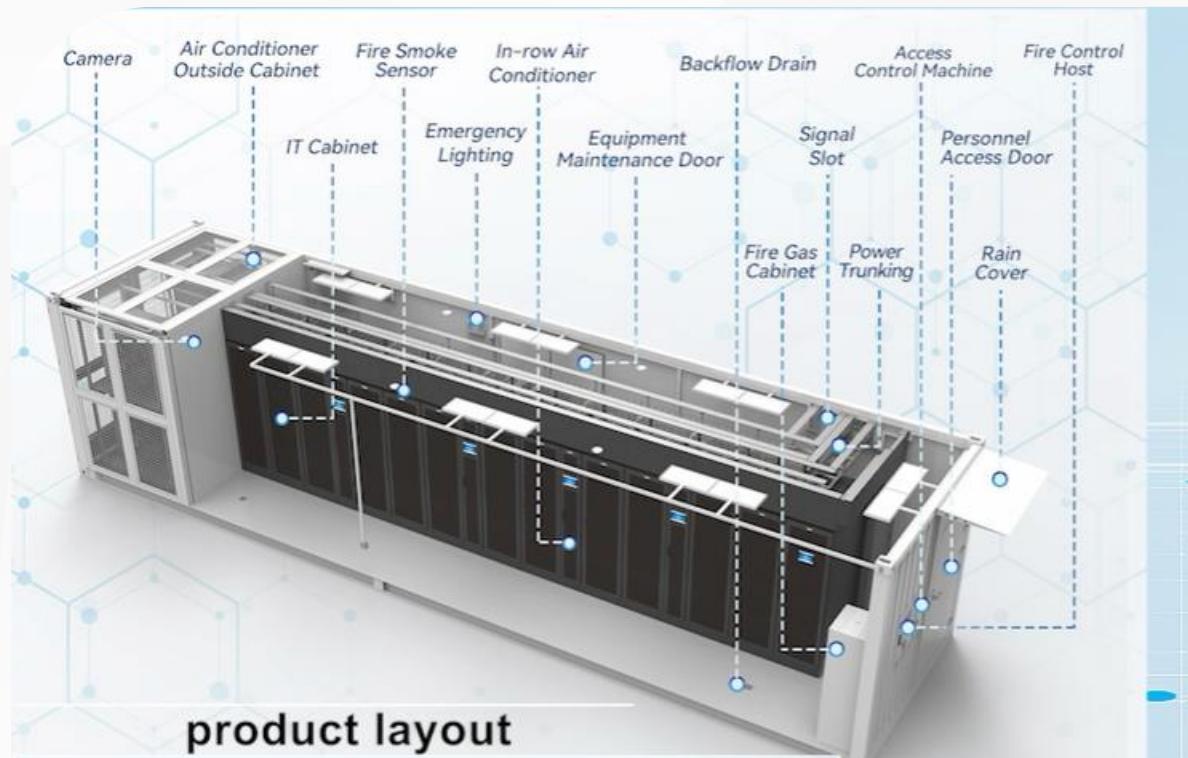


20ft

iLegend series

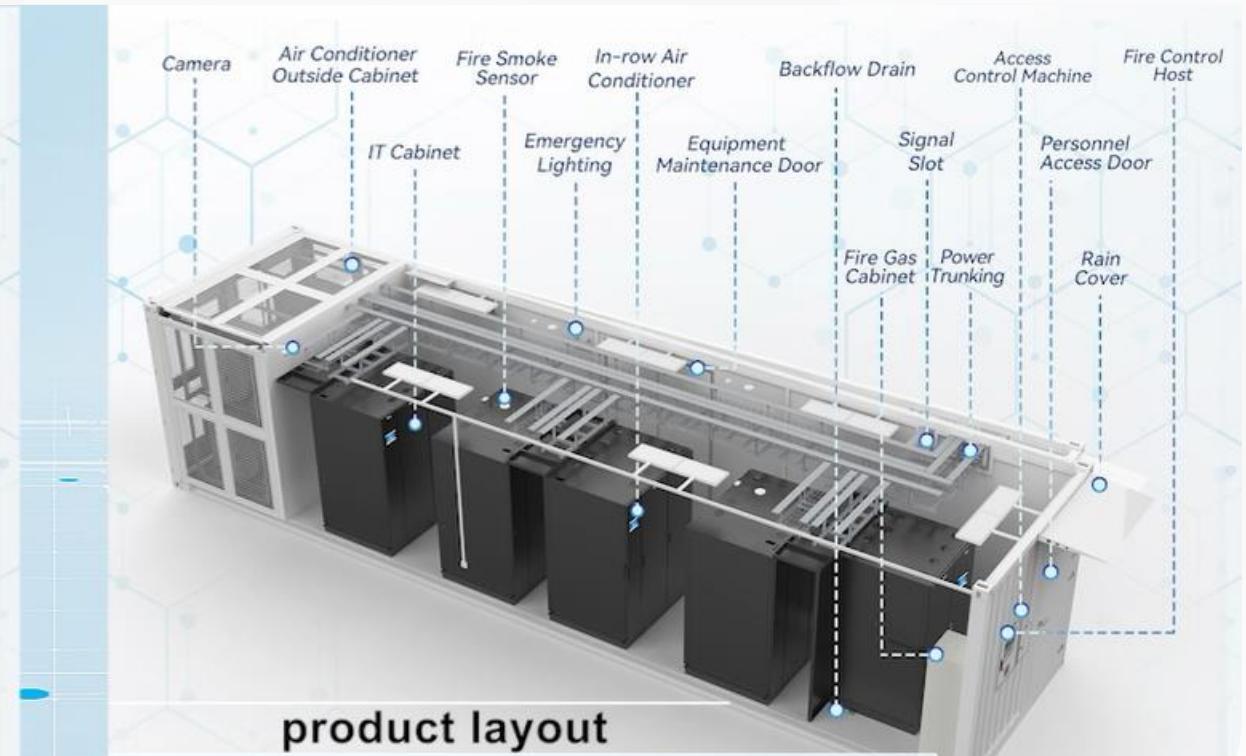


Layout



product layout

China market



product layout

overseas markets

iLegend series



During transportation, the air conditioners are stayed in the container



Upon receiving the product, no complicated installation is required. Our rail system allows you to simply slide out the ACs and plug it in for immediate use.



iLegend series



Power distribution system & UPS



Input breaker & Lightning protection switch

ATS(optional)

UPS input/ output/ bypass

UPS



45-90kVA UPS



150kVA UPS

iLegend series



Air conditioner



12.5kW-60kW
in-row



7.5kW-20.5kW
Integrated type
(main used for lithium battery)

Access control



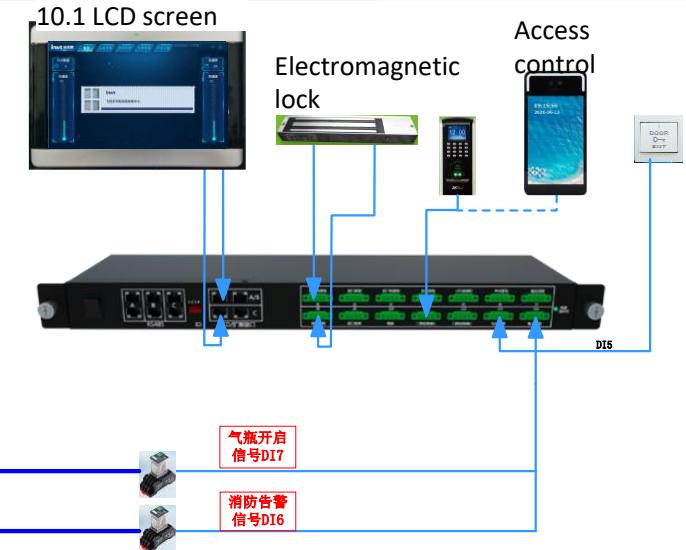
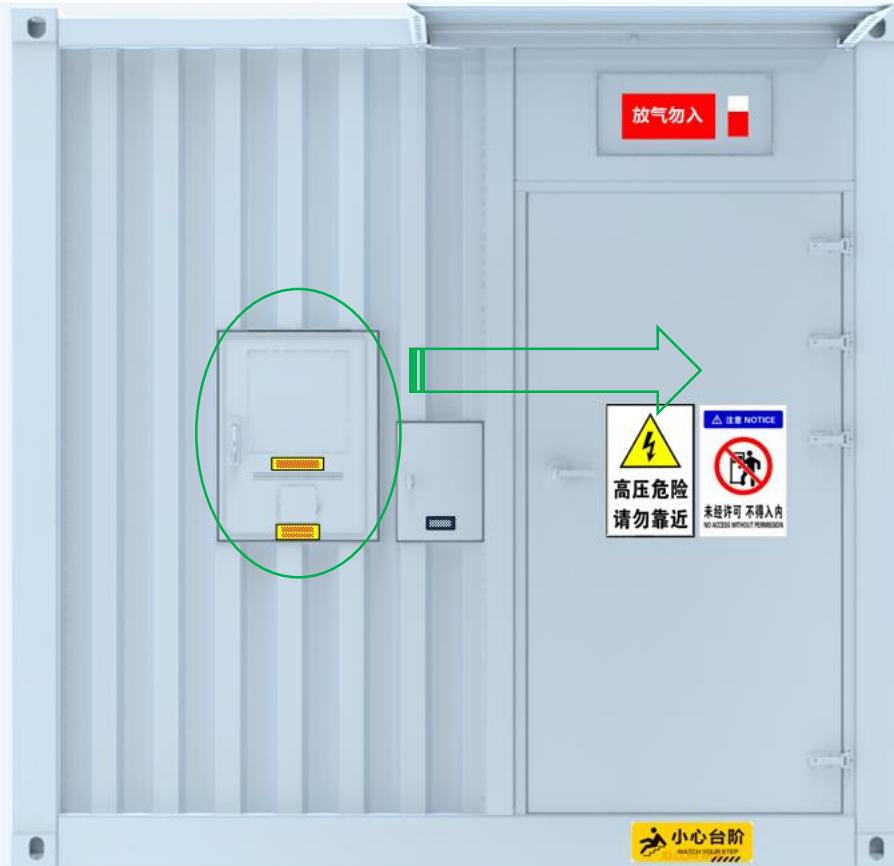
OR



Access control system as a device of authority management, combined with intelligent monitoring screen can realize the role of **opening and closing the container personnel access door, identification, user management, password / fingerprint setting and modification.**

Face recognition device as an **option**, connected to the cabinet control module, combined with the power and environment system can realize the role of opening and closing the container personnel access door, identity recognition, user management, etc.

Fire control



iLegend series



Detect components

eMTR
TCP/IP
Alarm Settings
Email Settings
SMS Settings
Time Settings
Language Settings
IOT Settings
Modbus Server Settings
User Management
Access Management

Email Server Settings

sent Successfully

Email Server	smtp.163.com
Port Number	25
From Email	5@163.com
Account	5
Password
To Email	5@163.com
<input type="button" value="Send Test Email"/>	
<input type="button" value="Set"/>	

System UPS

Check All Empty

UPS

Event	<input type="checkbox"/> Enable
Comm Fail	<input checked="" type="checkbox"/>
Maint CB Closed	<input checked="" type="checkbox"/>
Batt Not Connected	<input checked="" type="checkbox"/>
Batt Test Fail	<input checked="" type="checkbox"/>
Batt Maint Fail	<input checked="" type="checkbox"/>
EPO	<input checked="" type="checkbox"/>
Fan Fail	<input checked="" type="checkbox"/>
Temperature Error	<input checked="" type="checkbox"/>
REC Fail	<input checked="" type="checkbox"/>
Utility Abnormal	<input checked="" type="checkbox"/>
Bypass Fail	<input checked="" type="checkbox"/>
Byp Volt Abnor.	<input checked="" type="checkbox"/>
Byp FreqOvTrack	<input checked="" type="checkbox"/>

E-mail notification



Temp & Hum sensor



Water leakage sensor



Smoke sensor



Infrared sensor
(Optional)



Webcam
(Optional)

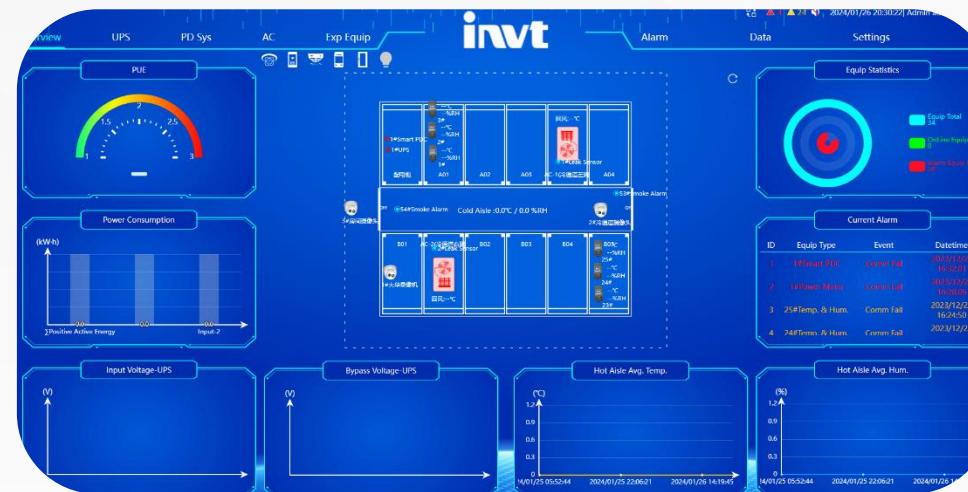


SMS alarm
(Optional)

iLegend series



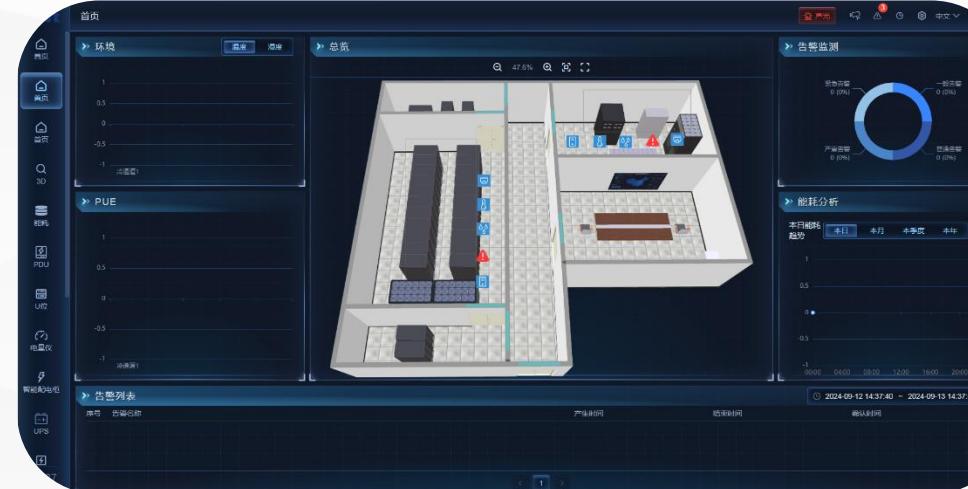
Host cabinet HMI



Web monitoring



PDC HMI



Centralized monitoring

Full Series





Thank you

Nov 5, 2024