iTalent Series Dual Row Cabinet Data Center

Product Introduction ▼

iTalent series dual row cabinet data center adopts modular design, integrating power supply and distribution system, air conditioning system, cabinet system, closed aisle system, monitoring system and cabling system into one, and configuring various environmental data sampling sensors for unified monitoring and management by eSite cloud map monitoring system, realizing automatic control and intelligent operation and maintenance, enhancing data center reliability, availability and maintainability.

Product Features ▼

Safe and reliable

- All components are manufactured according to international and domestic standards to ensure product quality;
- Data center productization, productization reliability up to 99.999%. Adopt integrated design to enhance the overall reliability of the system;
- Redundant design of key components to improve system reliability;
- The data center power distribution and cooling system is designed according to the international class A server room (international standard Tier Iv level);
- Integrated intelligent monitoring system, early warning of key data to ensure the safety of server room operations reliable.

Easy installation

- Standardized components, modular architecture, and rapid on-demand deployment to match your business;
- No need for professional machine room, can be installed directly on the concrete floor of the building, reducing the supporting engineering;
- The products are standardized, modular, plug-and-play, and easy to be installed, greatly reducing the installation cycle.

High efficiency and energy saving

- The average annual PUE can be reduced to 1.30;
- The use of in-row air conditioner cooling, closed cooling space to achieve precise cooling near the server side, greatly improving the efficiency of cooling, comparing with the traditional server room can save energy by more than 35%;
- N+X high efficiency online modular UPS with intelligent sleep function to save more energy;
- High density deployment, single cabinet up to 10kW;
- Integrated power supply and distribution, space saving, 1-2 more equipment cabinets can be deployed;
- Remote O&M is unattended, saving TCO.

Intelligent management

- Intelligent monitoring of the working status of power and environmental systems;
- Intelligent lintel, visual display of key information, easy operation and maintenance;
- Real-time alerts can be made in time by SMS, telephone, email, sound and light, etc;
- Provide a variety of human-machine interaction methods such as operation and maintenance large screen, remote APP, local LCD and remote WEB;
- Provide a variety of northbound interfaces such as ModbusTCP, MQTT, etc. for easy system integration.

Parameters ▼

iTalent series dual row cabinet data center			
			Parameters
System	Size(W*D*H)		3600*L*2600mm（L≤15000mm）
	IT rated power/cabinet		3~10kW
	Door Specifications		Automatic sliding doors/manual sliding doors/pull-out doors
	Intelligent Lighting		LED white light, intelligent color ambient light, linkage with monitoring system.
	Access Control System		Support face/fingerprint/password/IC and other methods can be selected
	Ambient temperature		0-45℃
	Ambient Humidity		10-95%, Relative Humidity
	Protection class		IP20
	Altitude		1000 m, more than 1000 m need to be derated.
	Installation method		Direct concrete floor installation / Raised floor installation
Cabinet	Size(W*D*H)		600/800*1200*2000mm
	Available Space		42U
	Inlet method		Support up/down wire feed
Power Distribution System	Power Distribution Cabinet	Input method	Single circuit MCCB/Dual circuit ATS
		Grid system	380/400/415Vac, 50/60Hz
		Specification	63~400A
		SPD	B/C class optional
		Type	Integrated UPS distribution cabinet/precision distribution cabinet/intelligent busbar
	UPS	Capacity	Built-in maximum 200kVA, external 200kVA or more
		Input Freq.	40-70Hz
		Output PF	1
		Battery	Built-in cabinet type battery cabinet or external battery cabinet
	PDU	Ordinary Type	[National standard 12-bit 10A + 3-bit 16A]*2
		Smart Type	24-port intelligent PDU (optional)
Cooling System	Air Conditioner Capacity		12.5~60kW
	Cooling method		Air-cooled
	Refrigerant		R410A
Monitoring System	HMI		21.5 inch touch screen
	System Functions		Remote WEB/Centralized monitoring of power, environment, video, access control system/Northbound interface
	Monitoring accessories		Smoke sensor/T&H sensor/water flood sensor/infrared sensor/webcam/access control/fire linkage
	Alarm method		E-mail / SMS, Audible and visual alarm, Telephone Voice, APP(optional)

The above parameters are for reference, the actual configuration parameters are subject to customer requirements.
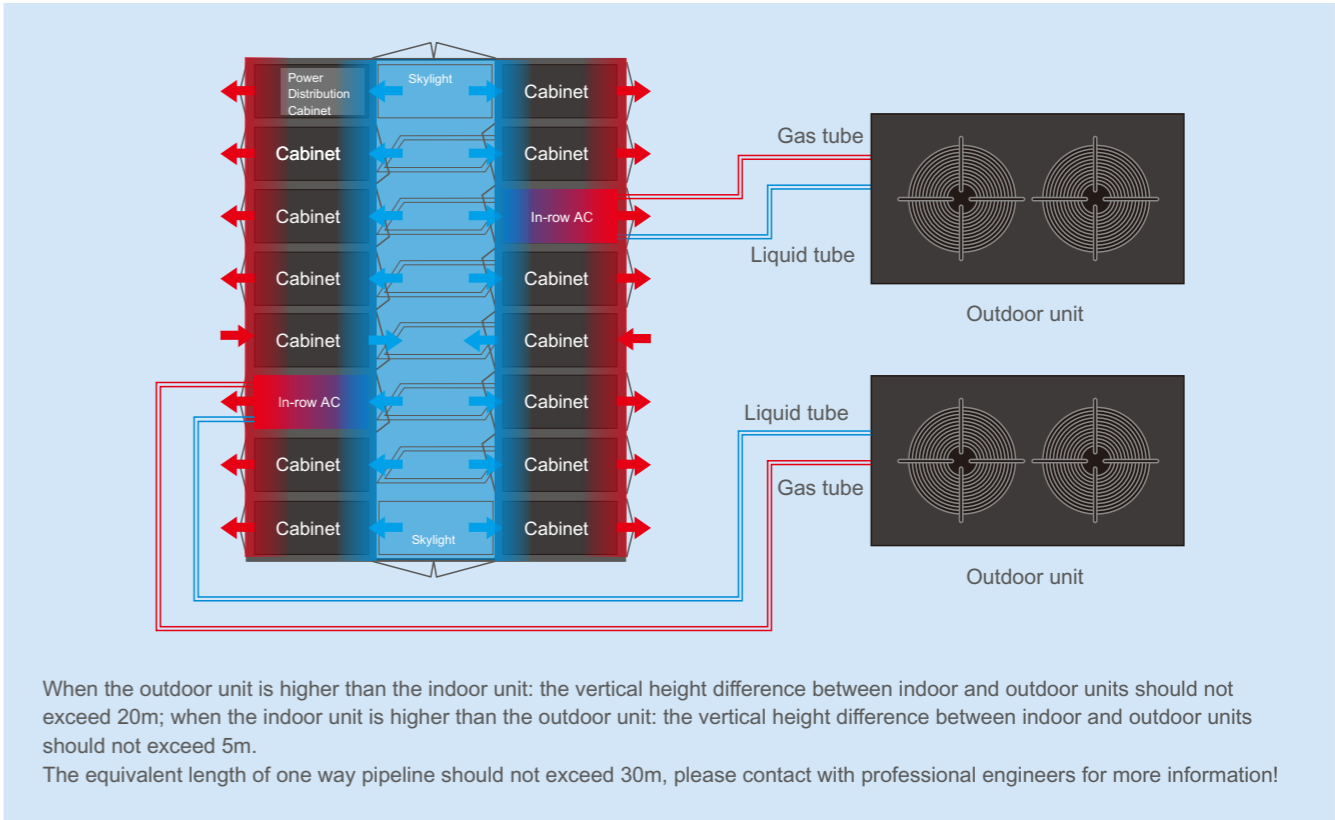
Applicable Scene ▼

Large-scale data center, campus data center and other core business server room, suitable for Government, medical, education, finance, telecom and other leasing and self-use businesses.
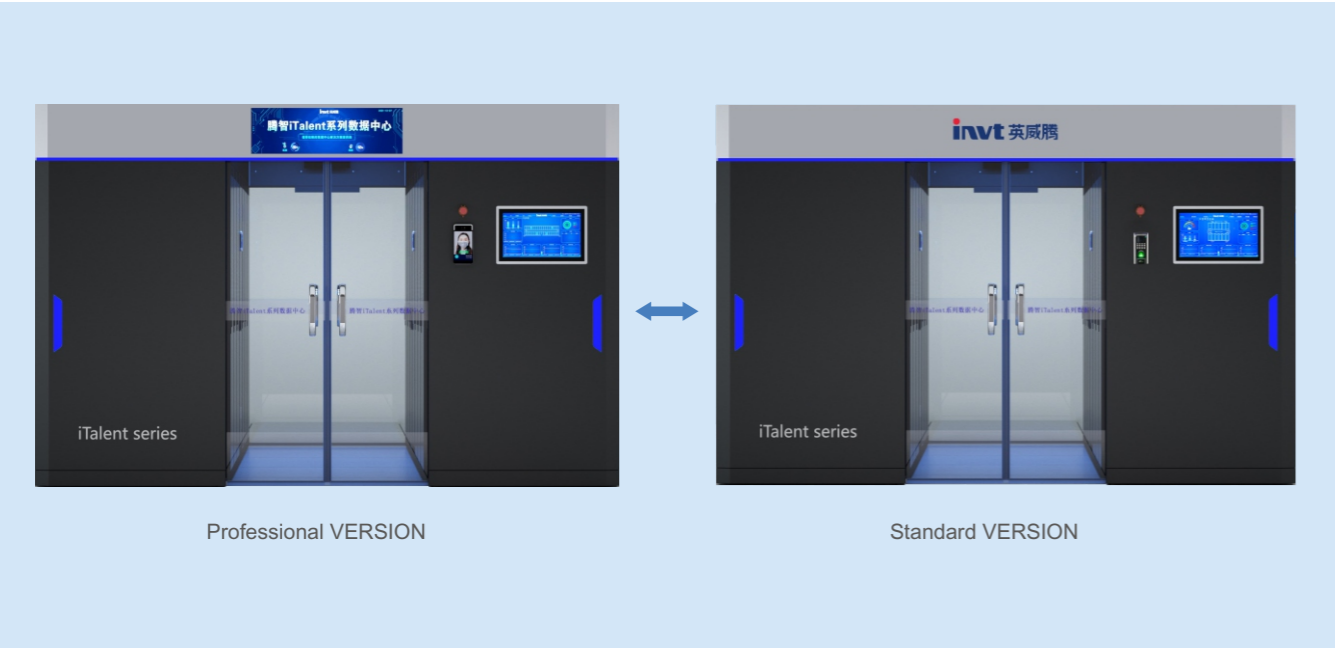
Applicable power ▼

The maximum supported power of a single cabinet is 10kW per cabinet. And it supports up to 50 cabinet which includes air conditioner and power distribution cabinet.

Air flow organization reference chart ▼

Power Distribution Cabinet	Skylight	Cabinet
Cabinet		Cabinet
Cabinet		In-row AC
Cabinet		Cabinet
Cabinet		Cabinet
In-row AC		Cabinet
Cabinet		Cabinet
Cabinet	Skylight	Cabinet

Gas tube

Liquid tube

Outdoor unit

Liquid tube

Gas tube

Outdoor unit

When the outdoor unit is higher than the indoor unit: the vertical height difference between indoor and outdoor units should not exceed 20m; when the indoor unit is higher than the outdoor unit: the vertical height difference between indoor and outdoor units should not exceed 5m.
The equivalent length of one way pipeline should not exceed 30m, please contact with professional engineers for more information!

Diversified configurations ▼

iTalent series

Professional VERSION

iTalent series

Standard VERSION

Integrated Data Center Application Scenario Diagram ▼

In-row AC

Power distribution

New Air System

Centralized monitoring

Micro Modules

Network Cabinet

UPS

Intelligent Power Distribution

Battery