

iSmart Series

IS100

iSmart Product Introduction

The iSmart Series single cabinet data center integrates UPS, air conditioner, power distribution module, power and environment monitoring system, temperature and humidity detection, fire extinguisher, light and access control in a standard 19-inch server cabinet. All equipment is pre-installed and pre-commissioned in the factory. The on-site installation is easy and convenient, which can realize rapid deployment, occupy less area, and come with remote web interface monitoring function, which can realize remote operation and maintenance of a site.



Product Features



Safe and Reliable

- All components follow domestic and international standardized production standards to ensure product quality.
- Pre-installation, pre-commissioning and other process are controlled at various levels to ensure product installation and operation safe and reliable.
- A single cabinet is a complete system, suitable for various complex scenes (dust, narrow space, no insulation measures, etc.).
- Integrated design, overall delivery, avoid system design problems. The door pop-up system can delay the aisle overheating and reserve time for data backup.
- The cabinet integrates an intelligent monitoring system to ensure safe and reliable operation of the computer room.



Easy Installation & Rapid Deployment

- Modular design of power distribution, easy installation and maintenance.
- Rack-mounted air conditioner indoor unit, pipe thread connection, easy maintenance.
- The computer room does not need special decoration treatment, and the equipment is ready to use. Installation and commissioning cycle only need 3 hours.



High Efficiency & Energy Saving

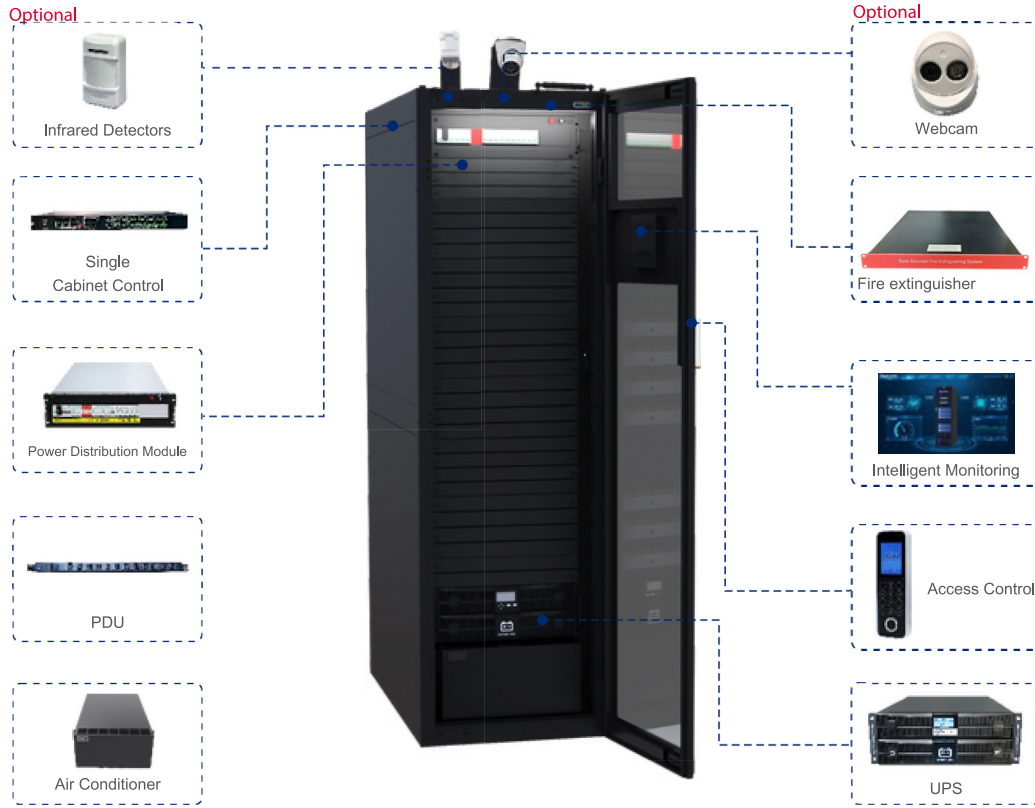
- Proximal refrigeration, high-efficiency power supply and the overall annual average PUE of single cabinet = 1.30
- The power distribution, UPS, monitoring and refrigeration cabinets are integrated to save space.
- Engineering free design, free devoration and wiring, remote operation and maintenance are not on duty, saving TCO.



Intelligent Management

- The monitoring system is extensible and compatible with third-party monitoring systems; friendly HMI.
- Support local and remote WEB interface access, SMS alarm function.

Structure and Composition



Applicable Scene

- Computer rooms of medium and small enterprises, large enterprises, government branch offices.
- Financial business offices, communication business halls and base stations.
- Commercial retail institutions, smart buildings.
- Grassroots public security agency, government agency.

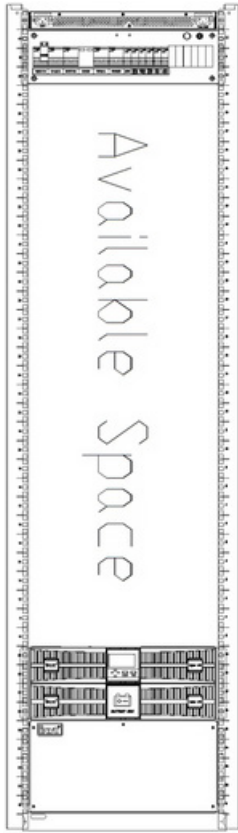
Floor Area

The overall area of a single cabinet is 0.72 m², which is suitable for computer rooms within 10-20 m², such as small archives.

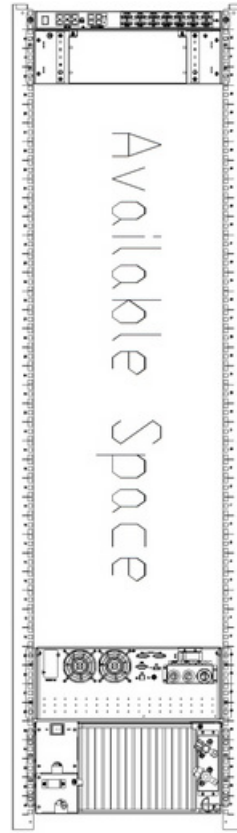
System Capacity

Capacity of single cabinet \approx 3~6 kVA

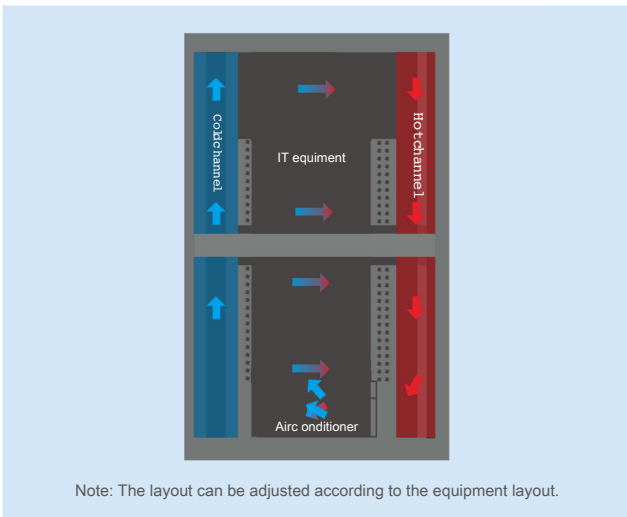
Product Layout Diagram



Front View



Rear View



Note: The layout can be adjusted according to the equipment layout.

Airflow References C hart



Application Scenario

Ismart Series IS100

SYSTEM	
IT Rated Power	6 kVA
Mains	220VAC, 50Hz/60Hz
Ambient Temperature	0-45°C 10-95%
Ambient Humidity	(Relative Humidity)
IP Class	IP5X
Altitude	1000m, Dereating For > 1000m
CABINET	
Dimensions (WxDxH)	6000x1200x2000 mm (Without Caster)
Space Occupation	≤32U
Display	10.1" Touch Screen LCD
Lighting	Front & Rear LED, Front Tri-Color Led
Cable Entry	Top and Bottom
Access Control System	Fingerprint +IC/ID Card + Password
POWER SUPPLY & DISTRIBUTION SYSTEM	
Distribution Module	80A
UPS	Rackmounted, 6kVA
Battery	Built-In Battery 16x12V9 Ah
PDU	2pcs, 16 Ports (13xC13+3xC19)
MONITORING SYSTEM	
Supervision System	Intelligent Integrated Monitoring Host
Single Cabinet	Single Cabinet Control Module
Centralized Monitoring	Smoke Sensor*1, Temperature&Humidity Sensor*1, Water Leakage Sensor*1 Fire Extinguisher*1, Webcam (Optional), Infrared Dedector (Optional)
EMERGENCY VENTILATION	
Method	Emergency Pop-Up Door System
COOLING SYSTEM	
Rated Cooling Capacity	7.5 kW
Rated Air Volume	700-1350 m3/h
FIRE EXTINGUISHER	
Fire Extinguisher	1U Filled With 3kg Fire Extinguishing Agent (FM200) Glass Ball Trigger
MECHANICAL	
Package Dimensions	720x1338x2230 mm
Cabinet Color	Black (RAL9004)

Standard Parts and Optional Parts List

	Intelligent Control Screen	Single Cabinet Control Module	Power Distribution Module	PDU*2	Tri-Color LED	Lamp
Standard Parts	Outdoor Unit	Indoor Unit	Access Control	Temp.&Humidity Sensor	Water Leakage Sensor	42U Cabin
	UPS (6kVA)	Battery Pack (16x9Ah)	Fire Extinguisher	Rack Air Conditioner Indoor Unit	Rack Air Conditioner Outdoor Unit	IC Card * 1
	Optional Parts	Floating Nut	Infrared Detector	Webcam	IC/ID Card (Extra)	SMS Alerter