

# iSmart Series Single Cabinet Data Center

## 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, 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.

### High efficiency and energy saving

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

### Easy installation and 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.
- A single cabinet is a complete system, plug and play.

### 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, tourist attractions.
- Gas stations, toll stations, smart buildings.
- Grassroots public security agency, government agency.

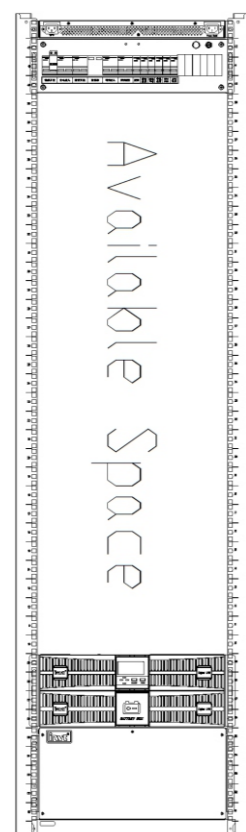
## Floor area ▼

The overall area of a single cabinet is 0.72m<sup>2</sup>, which is suitable for computer rooms within 10-20 m<sup>2</sup>, such as small archives.

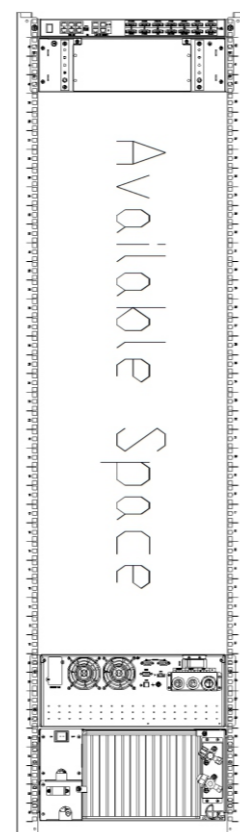
## System Capacity ▼

Capacity of single cabinet  $\approx 3\sim 5\text{kVA}$

### Product Layout Diagram ▼

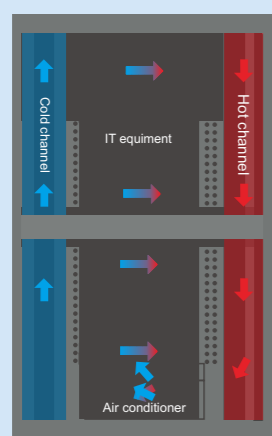


Front View



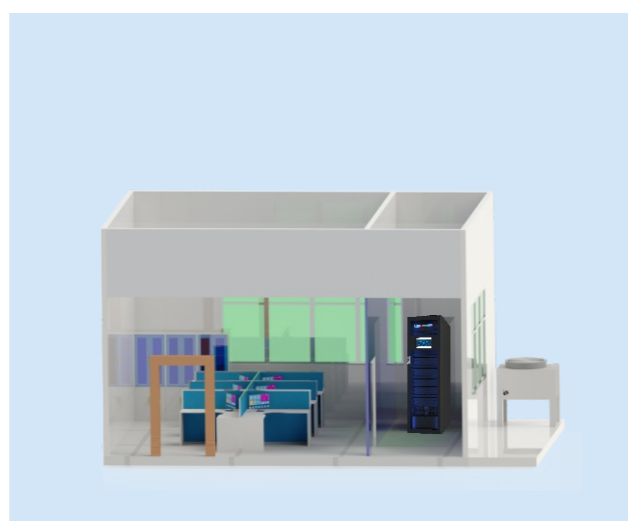
Rear View

### Airflow Reference Chart ▼



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

### Application Scenario ▼



### Product Configuration ▼

| iSmart Series Integrated Cabinet Solution |                        |  |
|---|------------------------|--|
| System                                    | IT rated power         | 3-5kW  |
|   | Mains                  | 220Vac,50Hz/60Hz                             |
|   | Ambient temperature    | 0-45°C                                       |
|   | Ambient humidity       | 10-95% (Relative humidity)                   |
|   | IP Class               | IP5X   |
|   | Altitude               | 1000m, derating for >1000m                   |
| Cabinet                                   | Dimension (W*D*H)      | 600*1200*2000mm(Without caster)              |
|   | Space occupation       | ≤32U   |
|   | Display                | 10.1" touch screen LCD                       |
|   | Lighting               | Front and rear LED, front Tri-color LED      |
|   | Cable entry            | Top and bottom                               |
|   | Access control system  | Fingerprint +IC/ID card + Password           |
| Power Supply and Distribution System      | Distribution module    | 63~80A                                       |
|   | UPS                    | Rackmounted, 3kVA/6kVA                       |
|   | Battery                | Built-in battery or external battery cabinet |
|   | PDU                    | 2pcs, 16 ports (13*C13+3*C19)                |
| 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                       |
|   |                        | Webcam (optional)                            |
|   |                        | Infrared detector(optional)                  |
| SMS alarm (optional)                      |                        |  |
| Emergency Ventilation                     | Method                 | Emergency pop-up door system                 |
| Cooling System                            | Rated cooling capacity | 3.7-7.5kW                                    |
|   | Rated air volume       | 700-1350m³/h                                 |
| Mechanical                                | Package dimensions     | 720*1338*2230mm                              |
|   | Cabinet color          | Black (RAL9004)                              |

### Standard Parts and Optional Parts List ▼

|                |                            |                               |                           |                              |                      |                          |
|----------------|----------------------------|-------------------------------|---------------------------|------------------------------|----------------------|--------------------------|
| Standard Parts | Intelligent Control Screen | Single Cabinet Control Module | Power Distribution Module | PDU*2                        | Tri-color LED        | Lamp                     |
|                | Outdoor Unit               | Indoor Unit                   | Access Control            | Temperature& Humidity Sensor | Water Leakage Sensor | IC Card *1               |
| Optional Parts | UPS                        | Infrared Detector             | Cover Plate               | Webcam                       | SMS Alerter          | Audible and Visual Alarm |
|                | Floating Nut               | Battery Pack                  | Battery Cabinet           | IC/ID Card                   | L-Rail               | Tray                     |