GV Power
Smart Power Management
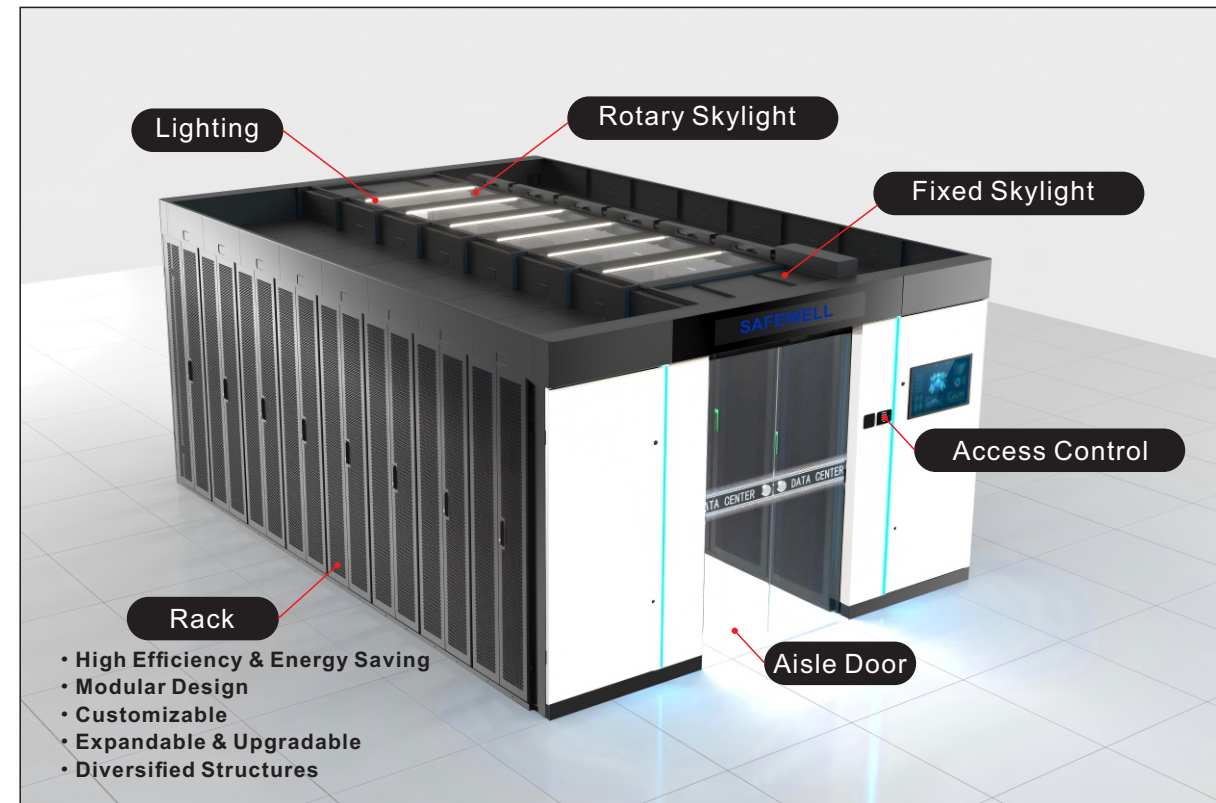
DATA CENTER SOLUTION

GVPower
Smart Power Management
DATA CENTER SOLUTION

Aisle Containment System

Cold/Hot Aisle Containment System is a critical airflow management solution in data centers designed to optimize cooling efficiency. Server racks are arranged in an alternating "face-to-face, back-to-back" configuration, combined with aisle doors, skylights, and sealing panels to form a cold and hot aisle layout. This design physically separates the supply of cold air from the hot exhaust generated by IT equipment, thereby improving cooling efficiency and reducing energy consumption.

Lighting
Rotary Skylight
Fixed Skylight
SAFEWELL
Access Control
Rack
Aisle Door

• High Efficiency & Energy Saving
• Modular Design
• Customizable
• Expandable & Upgradable
• Diversified Structures

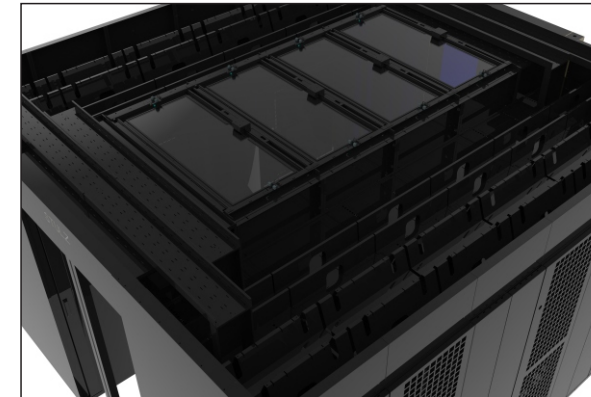## Aisle Containment System Components

Aisle Door

• Full-automatic, semi-automatic, and manual sliding doors, as well as semi-automatic and manual swing doors available.
• Embedded Sliding Door Frame: Highly integrates dynamic environment displays, access control systems, lighting switches, environmental monitoring hosts, RGB ambient lighting, and door header displays, delivering both elegant aesthetics and comprehensive functionality.
• Automatically unlocks or forcibly opens upon fire alarm activation.
• Various access controllers which are card reader, keypad, or fingerprint.

Skylight

• Rotary, fix and one-click reset roof ceiling available.
• Forcibly opens upon fire alarm activation.
• Optional LED lighting module integration.

Cable Management For Data Center

Overhead Cable Troughs

Fixed to the top of the cabinet, it is used to guide the transmission of power cables and data cables at the top of the cabinets.

• Modular design supports flexible module combinations.
• Power cables and data cables are managed separately to prevent interference.
• Tool-less snap-lock installation, reduces deployment workload.

Wire Mesh Cable Tray And Fiber Duct

In data centers, various common wire mesh cable tray components and fiber duct components are all available.

Other Aisle Containment System

Hot Aisle Containment

Rack-Independent Aisle Containment

Mini Data Center

Our company transformed the computer room technology to an integrated Mini Data Center solutions with in house UPS power supply, Precision Air-conditioning, access control system, lightning protection, remote monitoring, fire protection, emergency ventilation, etc. The system is integrated to provide IT equipment with safe and reliable operation support. Now data center one-stop deployment and operation management is lot easier with integrated Mini Data Center.

Application

Financial Business Outlets, Government, Education, Medical Care, Transportation, Small and Medium-Sized Enterprise, Commercial Super Retail, Etc. No Special Machine Room Required.

Features

High efficiency

Energy saving and efficient power supply is achieved through cold and hot airtight isolation. Power Usage Effectiveness (PUE) will be less than 1.2.

Quick deployment

Out of the box pre-installed components. No need to set up the room, AC, Monitoring, Fire protection etc. Just need a power line to plug in play the MDC and its ready for use. MDC with external AC outdoor unit just need to connect with a power line and connect with MDC internal system.

Simplify operations

15 inch in built LCD display with windows operating system for simple operation of MDC environment and management. The interface is simple and can achieve custom seamless expansion.
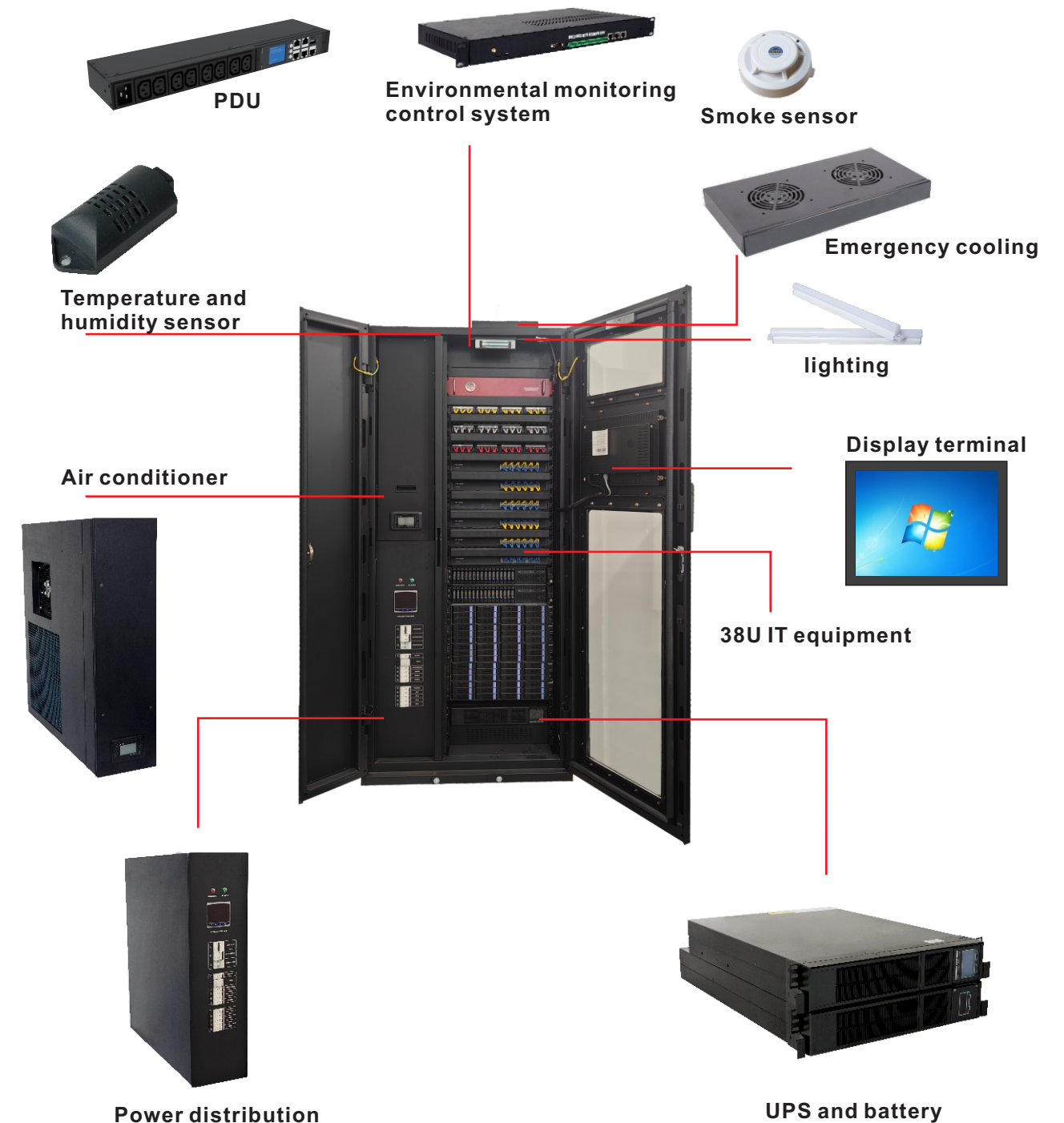
Low environmental requirements

No need to install raised floor or require special room to build data center. It can even simply put in your office room, meeting room or any other non-hazardous environments.

Flexible capacity expansion

Seamless and fast expansion is possible and can be implemented in short time.

Component

PDU

Environmental monitoring control system

Smoke sensor

Temperature and humidity sensor

Emergency cooling

lighting

Display terminal

Air conditioner

38U IT equipment

Power distribution

UPS and battery

Techincal Specifications

MDC-1T1R3K14		
Rack	Width*Depth*Height	870*1200*2000mm
	U space	42U
	Load capacity	1500 kgs
	Emergency intake fan	Temperature-controlled fan
	Emergency exhaust fan	Temperature-controlled fan
Air conditioner	Air conditioner type	Air cooled package type cooling unit
	Mount type	Tower type
	Cooling capacity	3KW
	Variable frequency	√
Power	Power distribution module	110-240Vac/1Ph , 50/60Hz
	UPS	3KVA,2U rack-mounted
	Battery	5-10mins
	PDU	2pcs*Horizontal PDU
Fire protection	Rack-mounted Gas Fire Extinguishing System	Temperature sensing,≥68℃(Optional)
Environmental monitoring system	Monitoring system	Linux, with 15'' Touch Screen
	Monitoring object	UPS, battery packs, air conditioners, power distribution, temperature and humidity sensors, water leakage detectors, smoke detectors, access control, video···
Available space	IT load	2.4KW
	Available space for devices	≤32U

Multi-Cabinet Combination

Model	MDC-1T2R6K
IT Capacity	4.8KW
UPS	6KVA
AC QTY.	2PCS
Cooling Capacity	3+3KW
User Available Space	29U+42U
Dimension(mm)	1470*1200*2200

Model	MDC-1T3R10K
IT Capacity	7KW
UPS	10KVA
AC QTY.	1PC
Cooling Capacity	7.5KW
User Available Space	21U+42U+42U
Dimension(mm)	2070*1200*2200