

FusionModule800

INTRODUCTION

FusionModule800 is a new-generation small modular data center solution. Which integrates power distribution, UPS, monitoring, cooling, cabinet, and fire extinguishing systems (optional) in one cabinet, it can greatly reduce data center footprint. The core components of the FusionModule800 are preinstalled and precommissioned before delivery, enabling rapid deployment of the data center. In addition, with Huawei's edge data center management system, it can realize unified management of multiple sites and significantly improve the O&M efficiency.

APPLICATION SCENARIOS

- Finance, Education, Healthcare, Public Security, SMEs, Retailing & Merchandising, Edge DC, etc.

FEATURES

Simple

- All components are prefabricated in factories. only need to be combined onsite, hardware are installed in 4 hours, 2 days business online
- Fire fighting module inside*, no need reconstruction
- Real-time monitoring of mobile apps, centralized monitoring of multiple sites*

Green

- High integrated design, saving 2 to 3 cabinets footprint.
- Cold and hot aisle containment, saving energy and reducing noise

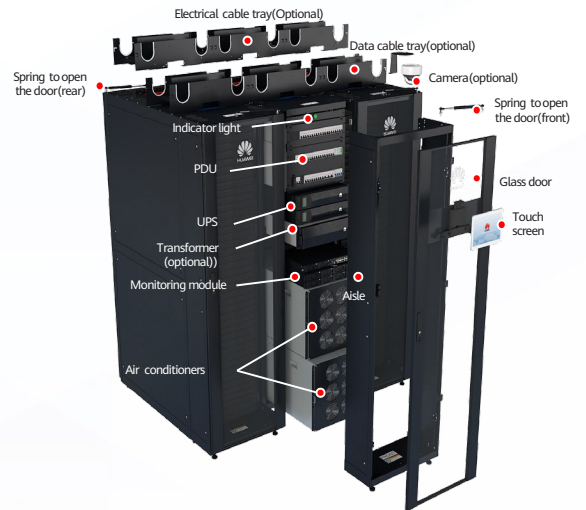
Smart

- Facial recognition, password-free login, and key-free door opening
- Intelligent O&M, unified management of multiple data centers*
- Smart meter inside, supporting power statistics and PUE display*

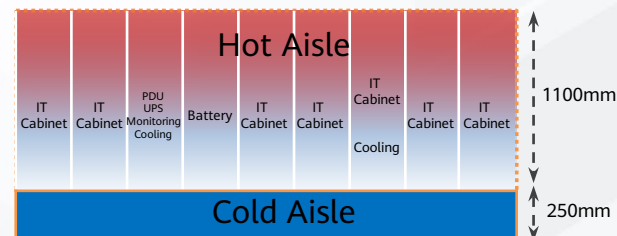
Reliable

- Reliable dehumidification at low load to avoid condensation in the data center
- Automatic door opening prevents overheating

*: Optional



FusionModule800 Architecture



SPECIFICATIONS

Item	Description	Specification		
Overall parameters	Power system	380/400/415VAC, 50Hz, 3Ph+N+PE		
	Aisle containment	Cold and hot aisle containment		
	System protection level	IP20		
	Ambient temperature	T1: -20°C~+45°C;		
	Maximum cabinet quantity	15		
	Quantity of IT cabinets	0~12		
	Maximum IT load	40kW		
	Max power density /Rack	7kW		
	IT cabinet weight	Static load 2400kg, dynamic load 1000kg		
	Total Dimensions	2000 × (600-9200) × 1350mm (H × W × D)		
Cooling system	Cooling capacity	12.5kW*		
	Configuration	N, N+1		
	Cooling mode	Direct expansion air-cooled		
	Installation	Rack- mounted		
	Air volume	2600m ³ /h		
	Air supply mode	Front supply, rear return		
Power system	Input power	Single inputs		
	UPS capacity	10kVA	20kVA	
	UPS configuration	N, N+1, 2N	N、N+1、2N	
	UPS input voltage range	80~280VAC, 40-70Hz, 1Ph+N+PE	138~485Vac, 40-70Hz, 3Ph+N+PE	
	UPS output power factor	1	0.9	
	UPS efficiency	Up to 96%	Up to 95%	
	Battery type	Battery pack, battery cabinet, battery rack		
	Backup time	15min~240min		
	SPD	CLASSII/C, In 20kA, I _{max} 40kA, 8/20us		
	Maintenance bypass	Standard		
	rPDU (optional)	No-Intelligent rPDU: IEC or GB, on site installation Intelligent rPDU: IEC, on site installation		
Fire Extinguishing module	Installation	Rack- mounted		
	Startup Mode	Smoke and temperature sensor dual-channel interlock start		
	Gas type and capacity	Perfluorohexanone, 6.25KG		
	Dimensions	265 × 442 × 690mm (H × W × D)		
Monitoring system	Function	Remote web page access and unified management of multiple branches		
	Local monitoring	10-inch tablet screen, supporting facial recognition login and keyless door opening		
	Standard functions	Input power meter, Smoke sensor, T&H sensor, intelligent lock, 10-inch PAD, SMS/email alarm, and local app O&M		
	Optional functions	Fire extinguishing module, video surveillance, water leakage sensor, and mobile O&M, PUE display		

Basic Configuration Introduction

Basic configuration	BC1L	BC2L	BC3L	BC4L	BC5L
Aisle type	Single row, cold & hot aisle containment				
UPS(KVA)	10kVA	10kVA*2	10kVA*3	20kVA*2	20kVA*3
Smart cooling	1, 2	2	2, 3	2, 3	3, 4, 5
PUE display	Support	Support	Support	Optional	Optional
Power input	Single input is default				
IT output	12	12	24	24	24

Note:

1. BC3L, BC5L: The UPS supports non-redundancy and N+1 redundancy.
2. BC2L, BC4L: The UPS support 2N redundancy or continuous cooling.
3. The cooling capacity 12.5kW is obtained when the indoor dry bulb temperature is 37.8°C, and outdoor dry bulb temperature is 35°C, relative humidity 20%.
4. BC1L cooling without heating and humidification, the others are all have one cooling with heating and humidification.