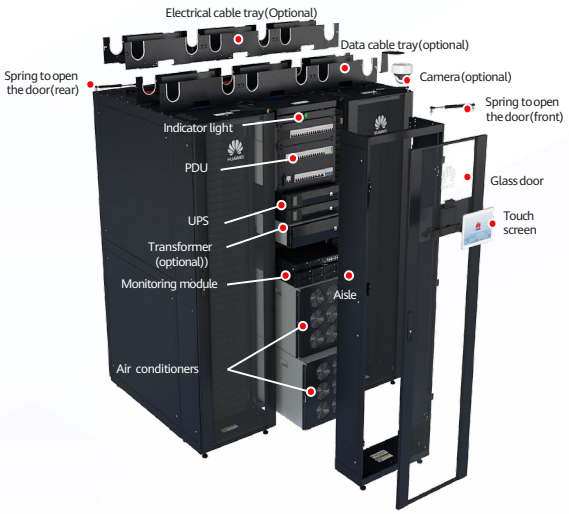
FusionModule800

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.



FusionModule800 Architecture

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

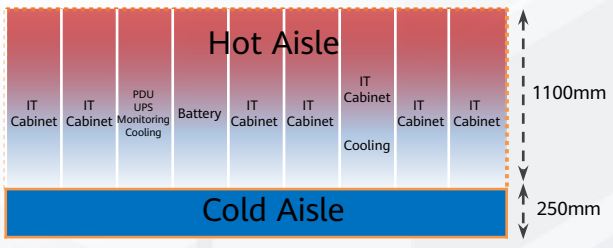
- High integrated design, saving 2 to 3 cabinets footprint.
- Cold and hot aisle containment, saving energy and reducing noise

Smart

- Intelligent O&M, unified management of multiple data centers*
- Smart meter inside, supporting power statistics and PUE display*
- Automatic door opening prevents overheating

Reliable

- Reliable dehumidification at low load to avoid condensation in the data center



*: Optional

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℃~+45℃;	
	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 × (600/800 per cabinet) × 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	2600m³/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，Imax 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 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, 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℃, and outdoor dry bulb temperature is 35℃,relative humidity 20%.
4. BC1L cooling without heating and humidification, the others are all have one cooling with heating and humidification.

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