

# Modular Data Center

## FusionModule800 Smart Small Data Center

### Introduction

FusionModule800 Smart Small Data Center is a new-generation data center solution. It is integrated with PDU, UPS, cooling and monitoring system in one rack in order to save space. IT racks can be deployed flexibly on both sides. A single module can support maximum 8 racks and 15kW IT load, the maximum power density for each rack is 6kW/R. Cold and hot aisle containments improve system energy efficiency and reduce noise.

### Application Scenarios

- Finance, Education, Health Care, Public Security, SMEs, Retailing & Merchandising, Edge DC, etc.
- Indoor modular data center

### Features & Value

#### Simple

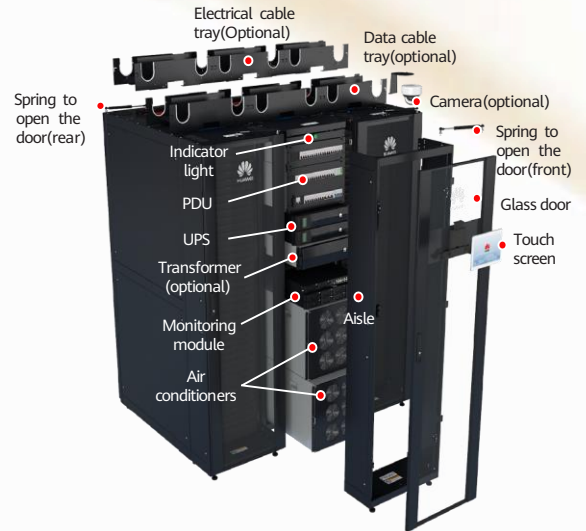
- Integrated cooling, PDU, UPS and monitoring system in one rack, space saving.
- All components are prefabricated in factories. only need to be combined onsite, hardware are installed in 4 hours, 2 days business on line.
- The local PAD supports facial recognition , easy login without password.

#### Efficient

- Rack-mounted air conditioner saves at least one rack footprint.
- Cold and hot aisle containment, saving energy and reducing noise.
- Improve the efficiency of cooling system through DC variable frequency compressor and wet film humidification\*.
- Real-time monitoring of mobile apps\*, centralized monitoring of multiple sits\*.

#### Reliable

- Dehumidifying at min. 10% IT load avoids condensation risk.
- Battery overheating intelligent shutdown to prevent the fire\*
- Open rack doors automatically in case of cooling failure and the temperature exceeds the limit.
- When detect the fire alarm automatically open the rack door to let the fire extinguishing gas enters.



FusionModule800 Architecture



FusionModule800 Application

# Specifications

Item	Description	Specification	
System feature	Maximum cabinet quantity for a module	8	
	Quantity of IT cabinets	1 ~ 6	
	Aisle containment	Cold and hot aisle containment	
	System protection level	IP20	
	Maximum IT load	(208V+120V) IT load ≤15kW	
	Maximum power density of a single cabinet	208V Power input: 6kW/R 120V power input: 3.5kW/R	
	Backup time	15 min/30min	
	Installation mode	Concrete floor or raised floor	
	IT cabinet weight	Static load 1500kg, Dynamic load 1000kg	
	Total Dimensions (H × W × D mm)	2000 × (600~5000) × 1350	
Cooling system	Power system	208V AC, 60Hz, 2Ph+PE	
	Cooling capacity	12.5kW <sup>a</sup>	
	Operating temperature of the outdoor unit	-20°C ~ +45°C;	
	Configuration	N / N+1	
	Cooling mode	Direct expansion air-cooled	
	Installation	Rack- mounted	
	Air volume	2600m <sup>3</sup> /h	
Air supply mode	Front supply, rear return		
Power System	Power input	208V/220V/230V/240V 3Ph 50Hz/60Hz	
	SPD	CLASSII/C, In 20kA, I <sub>max</sub> 40kA, 8/20us	
	UPS capacity	10kVA/20KVA	20kVA
	UPS configuration	N、N+1	
	UPS output power factor	0.9	
	UPS rated input voltage	208V AC, Dual live wire, 60Hz, 2Ph+PE	
	UPS rated output voltage	208V AC, Dual live wire, 60Hz, 2Ph+PE	
	UPS efficiency	94.5%	95%
	Battery backup mode	Battery pack, battery cabinet, battery rack	
	Backup time	15min/30min	
	Transformer(208V to 120V)	10kVA(Optional)	
Intelligent battery monitoring system	Optional		
Monitoring System	Monitoring system	Mobile phone APP (optional), SMS alarm, Web access, centralized management for multi-DCs (optional)	
	10 inched Pad	Standard	
	Water sensor	Optional	
	Smoke sensor	Standard	
	Intelligent door lock	Standard	
	Temperature and humidity sensor	Standard	
	Mobile O&M	Local app on the mobile phone, SMS alarm NetEco remote app on the mobile phone(optional)	
<b>Note:</b>			

- a. 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%.