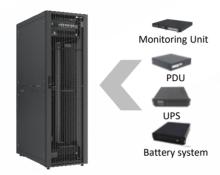
Smart Modular DC

FusionModule500

Micro modular DC

INTRODUCTION

Huawei FusionModule500 is a new-generation edge data center solution, which integrates the UPS, PDU, monitoring, and battery in one cabinet, it can greatly save footprint and build a "One Cabinet One DC" for customers. The core components of the FusionModule500 are pre-tested and pre-installed in the factory, and are plug-and-play on site, 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 & VALUE

Simple

· All-in-one design, quick deployment within 2 hours

Green

• One cabinet one DC, space saving by 50%

Smart

- Local 10-inch touchscreen* to intuitively display the data center status
- Intelligent O&M, unified management of multiple data centers*

Reliable

• Civil air conditioner intelligent start, no risk of overheat



SPECIFICATIONS

Item	Description	Specification
Overall parameter	Power type	220/230/240VAC, 50/60Hz, 1Ph+N+PE
	Temperature	0-40°C
	Humidity	5-95%
	Altitude	0-4000m (1000 meters or more to reduce capacity)
	Certificate	CE, ROHS, REACH
Cabinet system	Cabinet dimensions W×H×D(mm)	600×2000×1100
	Cabinet combination	IT cabinet / IT cabinet + battery cabinet, IT cabinet + network cabinet, IT cabinet + network cabinet + battery cabinet
	Avaiable space	6k UPS: ≤37U (no battery pack) 10k UPS: ≤36U (no battery pack)
Power system	Input	220/230/240VAC, 1Ph+N+PE, 50/60Hz, 63A
	PDU output	32A*4
	Capacity	6kVA/10kVA
	Configuration	Single UPS
	Voltage input range	80~280VAC, 40-70Hz, 1Ph+N+PE
	Power factor	1.0
	Efficiency	Up to 96%
	Battery type	Battery pack, battery cabinet battery rack
	Backup time	15min~4h*
	SPD	CLASSII/C, In 20kA, Imax 40kA, 8/20us
	Maintenance bypass	Standard
	rPDU (optional)	IEC: Half height or full height
Battery system	Lead-acid battery	Battery pack inside the cabinet
		Battery cabinet inside the module
		Battery rack outside the module
Monitoring system	Function	Remote web page access and unified management of multiple branche
	Local monitoring	10-inch tablet screen(optional)
	Standard functions	Smoke sensor, T&H sensor, SMS/email alarm
	Optional functions	Home A/C restart function, video surveillance, water leakge sensor, do sensor, and mobile O&M
	Mobile surveillance	Supports intelligent mobility management

0.04

^{* :} Optional

Smart Modular DC Smart Modular DC

FusionModule500

Micro modular DC (Integrated Cooling Solution)

INTRODUCTION

Huawei FusionModule500 is a new-generation edge data center solution, which integrates the UPS, PDU, cooling, monitoring, battery, and fire extinguishing unit(optional) in one cabinet, it can greatly save footprint and build a "One Cabinet One DC" for customers. The core components of the FusionModule500 are pre-tested and pre-installed in the factory, and are plug-and-play on site, 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 & VALUE

Simple

- · All-in-one design and integrated cooling unit inside, quick deployment within 2 hours
- · Fire fighting unit inside*, no need reconstruction

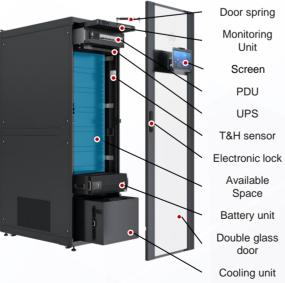
- · Highly integrated design, space saving by 50%
- · Hot and cold aisle containment to improve the cooling efficiency and reduce noise

Smart

- · Facial recognition, password-free login, and key-free doors
- Intelligent O&M, unified management of multiple data centers*

· Automatic door opening prevents overheating







FusionModule500 Architecture

* : Optional

SPECIFICATIONS

Power system	Item	Description	Specification
Installation mode	System features	Power system	220/230/240VAC, 1Ph+N+PE, 50/60Hz
Cable route		Aisle containment	Cold and hot aisle containment
Humidity and temperature 0°C-40°C, 5-95%		Installation mode	Concrete floor or raised floor
temperature Altitude O-000m (when the altitude is greater than 1000m, the capacity is derated) Maximum IT load Maximum IT load November 1920 Available space Protection level IP20 Weight Social (@3kW, 1h battery backup) Input 220/230/240VAC, 1Ph+N+PE, 50/60Hz, 63A Output 220VAC Capacity Configuration Voltage input range Power system Power system Power system Power system Power system Power system Cooling Space Cooling Space Air Supply Cooling capacity Standard Cooling System Cooling System Pire Extinguishing module Monitoring system Monitoring system Monitoring system Monitoring system Ait ude O-000mm×2000mm×1100mm (W×H×D) Available space S27U* Protection level IP20 Weight Social Supply Social Supply Social Supply Social Supply Social Supply Social Supply Front air supply and rear air return Installation Rack-mounted installation Dimensions A38mm×445mm×900mm (H×W×D) Installation Rack-mounted Fire Extinguishing module Monitoring system Monitoring system Monitoring system Monitoring system Monitoring system Monitoring system Fire extinguishing module Fire extinguishing module Fire extinguishing module Fire extinguishing module Monitoring system Monitoring system Monitoring system Monitoring system Fire extinguishing module Fire extinguishing module, video surveillance, water leakage sensor, and mobile Fire extinguishing module, video surveillance, water leakage sensor, and mobile Fire extinguishing module, video surveillance, water leakage sensor, and mobile		Cable route	From the top
Altitude Maximum IT load Maxim			0°C~40°C, 5~95%
Total dimensions		Altitude	0~1000m (when the altitude is greater than 1000m, the capacity is derated)
Available space Protection level IP20 Weight 360kg (@3kW, 1h battery backup) Input 220/230/240VAC, 1Ph+N+PE, 50/60Hz, 63A Output 220VAC Capacity 6kVA Configuration Single UPS Voltage input range 80~280VAC, 40-70Hz, 1Ph+N+PE Power factor 1.0 Efficiency Up to 96% Battery type Battery pack, battery cabinet, battery rack Backup time 0.5h~4h* SPD CLASSII/C, In 20kA, Imax 40kA, 8/20us Maintenance bypass Standard rPDU (optional) IEC: C13*8 Cooling system Cooling apacity 3.5kW* Cooling mode Air supply Front air supply and rear air return Installation Rack-mounted installation Dimensions 438mm×445mm×900mm (H×W×D) Installation Rack-mounted Fire Extinguishing module Monitoring system Monitoring system Monitoring system Optional functions Fire extinguishing module, video surveillance, water leakage sensor, and mobile O&M* Fire extinguishing module, video surveillance, water leakage sensor, and mobile O&M*		Maximum IT load	3kW
Protection level IP20 Weight 360kg (@3kW,1h battery backup)		Total dimensions	$600 \text{mm} \times 2000 \text{mm} \times 1100 \text{mm} (W \times H \times D)$
Weight 360kg (@3kW, 1h battery backup)		Available space	≤27U*
Input 220/230/240VAC, 1Ph+N+PE, 50/60Hz, 63A		Protection level	IP20
Power system Power system Power system Power system Power system Power factor Efficiency Battery type Backup time O.5h~4h* SPD CLASSII/C, In 20kA, Imax 40kA, 8/20us Maintenance bypass rPDU (optional) IEC: C13*8 Cooling System Cooling System Pire Extinguishing Monitoring system Monitoring system Output 220VAC 6kVA Configuration Single UPS Stord A0-70Hz, 1Ph+N+PE Power factor 1.0 Battery type Battery pack, battery cabinet, battery rack Battery rack Battery type Battery pack, battery cabinet, battery rack Battery rack Battery type Battery pack, battery cabinet, battery rack Battery rack Battery pack, battery cabinet, battery rack Battery pack, battery cabinet, battery rack Battery pack, battery cabinet, and the system Battery pack, battery cabinet, and system statery rack Battery pack, battery cabinet, and rack and system statery rack Battery pack, battery cabinet, and rack and system statery rack Battery pack, battery cabinet, and rack and system statery rack Battery pack, battery cabinet, and rack and system statery rack Battery pack, battery cabinet, and rack and system statery rack Battery pack, battery cabinet, and rack and system statery rack Battery pack, do-70Hz, 1Ph+N+PE Power factor 10 pessession and system statery rack Battery pack, do-70Hz, 1Ph+N+PE Power factor 10 pessession and system statery rack Battery pack, do-70Hz, 1Ph+N+PE Power factor 10 pessession and system statery rack Battery pack, do-70Hz, 1Ph+N+PE Power factor 10 pessession and system statery rack Battery pack, do-70Hz, 1Ph+N+PE Power factor 10 pessession and system statery rack Battery pack, deversion and system statery rack Battery pack, deversion and system statery rack Battery pack, deversion and system statery rack Battery pack, battery cabinety statery rack Battery pack, battery cabinety statery rack Battery		Weight	360kg (@3kW, 1h battery backup)
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Power system Configuration Voltage input range 80~280VAC, 40-70Hz, 1Ph+N+PE Power factor Efficiency Battery type Battery pack, battery cabinet, battery rack Backup time 0.5h~4h* SPD CLASSII/C, In 20kA, Imax 40kA, 8/20us Maintenance bypass standard rPDU (optional) IEC: C13*8 Cooling capacity 3.5kW* Cooling mode Direct expansion air-cooled Air supply Front air supply and rear air return Installation Dimensions 438mm×445mm×900mm (H×W×D) Installation Rack-mounted Gas type and capacity Perfluorohexanone, 1.25kG Dimensions 43.6mm×442mm×690mm (H×W×D) Function Remote web page access and unified management of multiple branches* Local monitoring Standard functions Smoke sensor, T&H sensor, intelligent lock, 10-inch PAD, SMS/email alarm*, and local app O&M Fire extinguishing module, video surveillance, water leakage sensor, and mobile O&M*		Output	220VAC
Power system Power factor Efficiency Battery type Backup time 0.5h~4h* SPD CLASSII/C, In 20kA, Imax 40kA, 8/20us Maintenance bypass rPDU (optional) IEC: C13*8 Cooling system Cooling system Cooling mode Air supply Installation Dimensions Installation Dimensions Fire Extinguishing module Fire Extinguishing module Monitoring system Monitoring system Voltage input range 80~280VAC, 40-70Hz, 1Ph+N+PE Power factor 1.0 Up to 96% Battery pack, battery cabinet, battery rack Battery pack, battery rack Battery pack, battery cabinet, battery rack Battery pack, battery cabinet, battery rack Battery pack, battery rack Battery pack, battery rack Battery pack, battery rack Battery pack, battery pack, battery rack Battery pack, ba		Capacity	6kVA
Power system Power factor Efficiency Up to 96%		Configuration	Single UPS
Power system Efficiency Battery type Battery pack, battery cabinet, battery rack 0.5h-4h* SPD CLASSII/C, In 20kA, Imax 40kA, 8/20us Maintenance bypass rPDU (optional) IEC: C13*8 Cooling capacity Cooling mode Direct expansion air-cooled Air supply Installation Dimensions A38mm×445mm×900mm (H×W×D) Installation Rack-mounted Gas type and capacity Dimensions 43.6mm×442mm×690mm (H×W×D) Function Remote web page access and unified management of multiple branches* Local monitoring Standard functions Fire extinguishing and capacity Portional functions Smoke sensor, T&H sensor, intelligent lock, 10-inch PAD, SMS/email alarm*, and local app O&M Fire extinguishing module, video surveillance, water leakage sensor, and mobile O&M*		Voltage input range	80~280VAC, 40-70Hz, 1Ph+N+PE
Battery type Battery pack, battery cabinet, battery rack Backup time 0.5h-4h* SPD CLASSII/C, In 20kA, Imax 40kA, 8/20us Standard problem of the pack		Power factor	1.0
Backup time 0.5h-4h* SPD CLASSII/C, In 20kA, Imax 40kA, 8/20us Maintenance bypass Standard rPDU (optional) IEC: C13*8 Cooling capacity 3.5kW* Cooling mode Direct expansion air-cooled Air supply Front air supply and rear air return Installation Rack-mounted installation Dimensions 438mm×445mm×900mm (H×W×D) Installation Rack-mounted Gas type and capacity Perfluorohexanone, 1.25kG Dimensions 43.6mm×442mm×690mm (H×W×D) 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 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*	1 Ower System	Efficiency	Up to 96%
SPD CLASSII/C, In 20kA, Imax 40kA, 8/20us Maintenance bypass Standard rPDU (optional) IEC: C13*8 Cooling capacity 3.5kW* Cooling mode Direct expansion air-cooled Air supply Front air supply and rear air return Installation Rack-mounted installation Dimensions 438mm×445mm×900mm (H×W×D) Installation Rack-mounted Fire Extinguishing module Gas type and capacity Perfluorohexanone, 1.25kG Dimensions 43.6mm×442mm×690mm (H×W×D) 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 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*		Battery type	Battery pack, battery cabinet, battery rack
Maintenance bypass rPDU (optional) IEC: C13*8 Cooling capacity 3.5kW* Cooling mode Direct expansion air-cooled Air supply Front air supply and rear air return Installation Rack-mounted installation Dimensions 438mm×445mm×900mm (H×W×D) Installation Rack-mounted Fire Extinguishing module Fire Extinguishing Dimensions 43.6mm×442mm×690mm (H×W×D) 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 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*		Backup time	0.5h~4h*
rPDU (optional) IEC: C13*8 Cooling capacity 3.5kW* Cooling mode Direct expansion air-cooled Air supply Installation Dimensions A38mm×445mm×900mm (H×W×D) Installation Rack-mounted Fire Extinguishing module Gas type and capacity Dimensions 43.6mm×442mm×690mm (H×W×D) Function Remote web page access and unified management of multiple branches* Local monitoring Standard functions 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*		SPD	CLASSII/C, In 20kA, Imax 40kA, 8/20us
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Air supply Front air supply and rear air return Installation		Cooling capacity	3.5kW*
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Installation Dimensions A38mm×445mm×900mm (H×W×D) Installation Rack-mounted Rack-mounted Rack-mounted Rack-mounted Rack-mounted Rack-mounted Rack-mounted Rack-mounted Perfluorohexanone, 1.25kG Dimensions A3.6mm×442mm×690mm (H×W×D) 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 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*		Air supply	Front air supply and rear air return
Fire Extinguishing module Gas type and capacity Dimensions Function Remote web page access and unified management of multiple branches* Local monitoring Standard functions 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*		Installation	Rack-mounted installation
Fire Extinguishing module Gas type and capacity Dimensions 43.6mm×442mm×690mm (H×W×D) 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 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*			438mm×445mm×900mm (H×W×D)
Dimensions 43.6mm×442mm×690mm (H×W×D) 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 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*		Installation	Rack-mounted
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 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*		Gas type and capacity	Perfluorohexanone, 1.25kG
Local monitoring 10-inch tablet screen, supporting facial recognition login and keyless door opening 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*		Dimensions	
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Monitoring system Standard functions local app O&M		Local monitoring	10-inch tablet screen, supporting facial recognition login and keyless door opening
O&M*		Standard functions	-
Mobile surveillance Supports intelligent mobility management		Optional functions	
		Mobile surveillance	Supports intelligent mobility management

- 1. Available space = 27U is calculated without battery fire extinguish module. The actual available space depends on specific configuration.
- FusionModule500 supports up to 4h battery backup, and the actual backup time depends on the number of battery modules.
- The cooling capacity is obtained when the indoor dry bulb temperature is 37°C, the indoor wet bulb temperature is 24°C, and the outdoor dry bulb temperature is 35°C. The actual cooling capacity varies depending on the indoor and outdoor ambient temperatures and relative humidity.
- Unified management of multiple branches requires Huawei intelligent data center management system.
- Water leakage detection is an optional function, and the dot-type/rope-type detection sensor can be selected.
- 6. The SMS/email alarm function needs to be used with the SIM card/network. The mobile O&M app needs to be used with Huawei intelligent data center management system.