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Due to the continuous technology upgrading, the company reserves the right to edit information in this document without prior announcement.

Version number::V2.1 (2024.08.08)

"Dimension" series Modular Data Center Solutions



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EVADA (Xiamen) Technology Co., Ltd. is a national high-tech enterprise integrating R&D, production, sales and service. Founded in 1998, the company has been focusing on power conversion and smart energy industry, offering comprehensive solutions for UPS, 5G station power supplies, military-grade power supplies, micro-module data centers, renewable energy system and more.

EVADA has built its own Science Park in Xiamen and set up R&D centers in both Shenzhen & Xiamen, operating through a network of 32 domestic and 2 overseas branches. Recognized with the honor of national "specialization, refinement, differentiation, innovation" prize and national "informatization and industrialization" certificate, EVADA is a leading brand in China, ranking among the TOP 5 domestic brands, TOP 8 in UPS enterprises for data centers, TOP 9 in micro-modular data center market, and TOP 10 in the China UPS market.

With deep industry engagement and technological accumulation of over 20 years, EVADA has participated in the drafting national and industrial standards. The company has served at prestigious events like the 2008 Beijing Olympic Games, the 2010 Guangzhou Asian Games, the 2017 Xiamen BRICS Conference, the 2019 National Day Parade, the 2022 Beijing Winter Olympics etc.

EVADA serves countries and regions all over the world, exporting products to Russia, Southeast Asia, Europe, United States, Middle East and Africa. As a part of the general push for digitalization in government, industry and communication, EVADA is committed to be a leader in the sector of power conversion.

Honors & Certificate



HIGH-TECH ENTERPRISE



CHINA FAMOUS TRADEMARK



THE STATE SPECIALIZES IN SPECIAL NEW "LITTLE GIANT" ENTERPRISES



FUJIAN PROVINCE ENTERPRISE TECHNOLOGY CENTER



TECHNOLOGY INNOVATION AWARD



ENTERPRISE CREDIT RATING CERTIFICATE



THE MOST INFLUENTIAL ENTERPRISE IN CHINA'S DATA CENTER MARKET



THE MOST INFLUENTIAL INDUSTRY BRAND IN CHINA'S COMMUNICATION MARKET



NATIONAL KEY NEW PRODUCT CERTIFICATE



NATIONAL QUALITY TRUSTWORTHY PRODUCTS



SAFETY PRODUCTION STANDARDIZATION LEVEL THREE ENTERPRISES



QUALITY SYSTEM CERTIFICATION CERTIFICATE



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATION



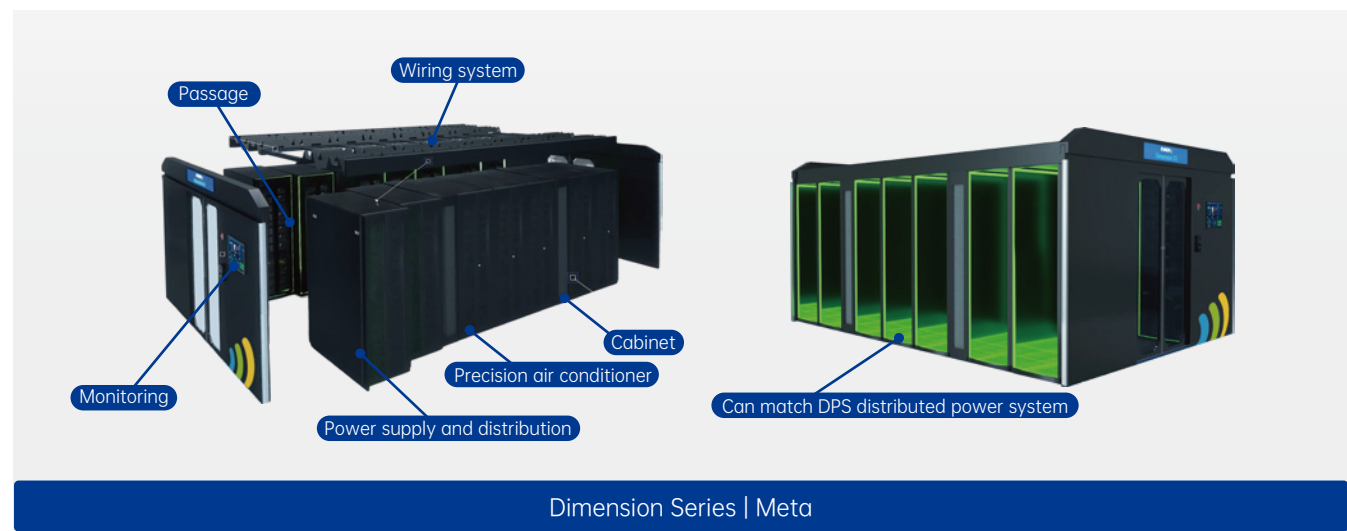
OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATION

“Dimension” series

Modular data center solutions

With the advent of the AI era, data centers are becoming the key infrastructure for the rapid development of AI technology. The rapid growth in computing power demand has posed unprecedented challenges to data centers. The center simplifies and intelligently integrates various systems, giving full play to the modular design concept, which can realize the rapid and flexible deployment of the overall system, greatly reduce construction costs, and shorten construction period. In the long term, it has solved the issues including low efficiency under low load, difficulty in capacity expansion under high load, poor management efficiency and high energy consumption. Building a new type of modular data center has become a trend.

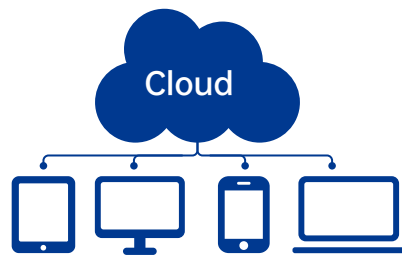
‘Dimension’ micro modular data center launched by EVADA based on the concept of "making electricity more reliable and efficient". It integrates EVADA's years of power industry experience and strong R&D, and meets the consistency of appearance, interface, protocol and other designs on the principle of ensuring the reliability and security of data center infrastructure, making data center more energy-efficient, smart and flexible.



Design Concept

Simple	Standard	Intelligent	Economical
Rapidly install on site Flexible deployment Shorter delivery time	Modular design Standard prefabricate Expansion based on requirements	24H Uninterrupted monitor Precise error detection APP management Visible maintenance	Low cost Power efficient design Eco-friendly operation

The "Dimension" series of micro-module data center solutions adopts a modular design concept, integrating subsystems such as cabinet systems, channel systems, power supply and distribution systems, cooling systems, and monitoring systems to provide customers new data center solutions with rapid deployment, high efficiency, energy saving, and flexible expansion. It effectively meets customers' needs for efficient, reliable and intelligent management in data centers.



Key Value



Simple

The data center is integrated through productization and modularization, which improves compatibility. It is more compatible with IT infrastructure, and ensure the operation of IT equipment's stability.

Save time

Factory prefabrication and modular design eliminate the need for on-site engineering construction and rapid installation and delivery, saving more time than traditional construction models.

Safe

In-depth integration of each system and factory verification testing are more standardized and safer than on-site construction; high-reliability UPS ensures stable operation of IT equipment and power supply environment ; Dynamic environment monitoring system ensures real time and all specs system monitoring.

Low cost

It has strong environmental adaptability, does not require decoration, and effectively reduces investment costs; high-efficiency UPS + precise cooling + fully enclosed channel isolation design saves energy, reduces power consumption, and reduces operating costs. Significantly reduce overall costs.

Smart

One-stop after-sales service can promptly handle all types of equipment failures, saving time; the standard dynamic environment monitoring system can be monitored and managed locally and remotely, and multiple outlets can be connected to the upper-level management platform for unified supervision, providing diversified support options.

Application Scenarios

Government Affairs

Public

Industry

Finance

Smart City

Communications

Medical

Transportation

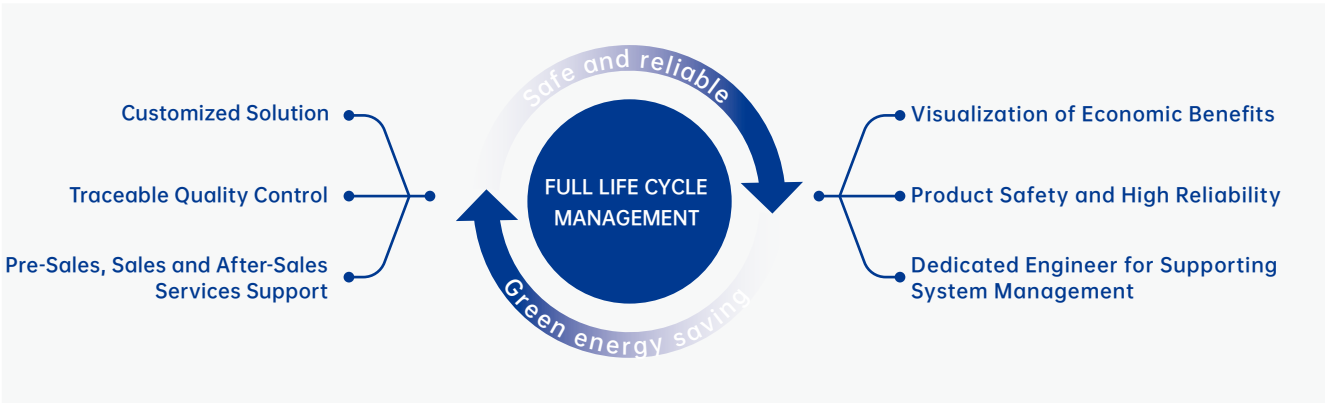
Internet

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Highlights

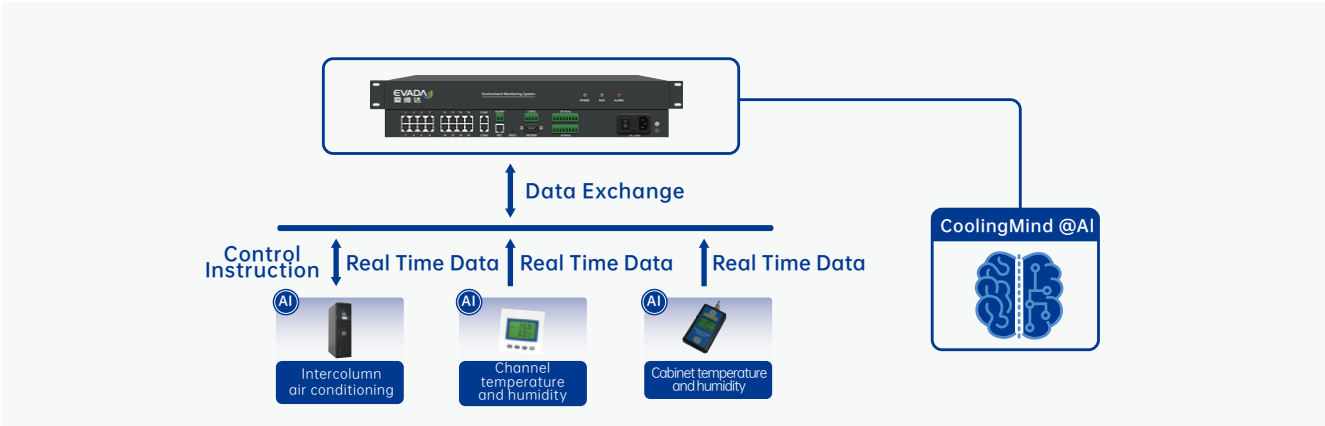
Full Life Cycle Management

Combining years of industry experience, EVADA provides product life cycle management and end-to-end full-service management for new data centers, from early solution design, on-site installation , operation and maintenance;



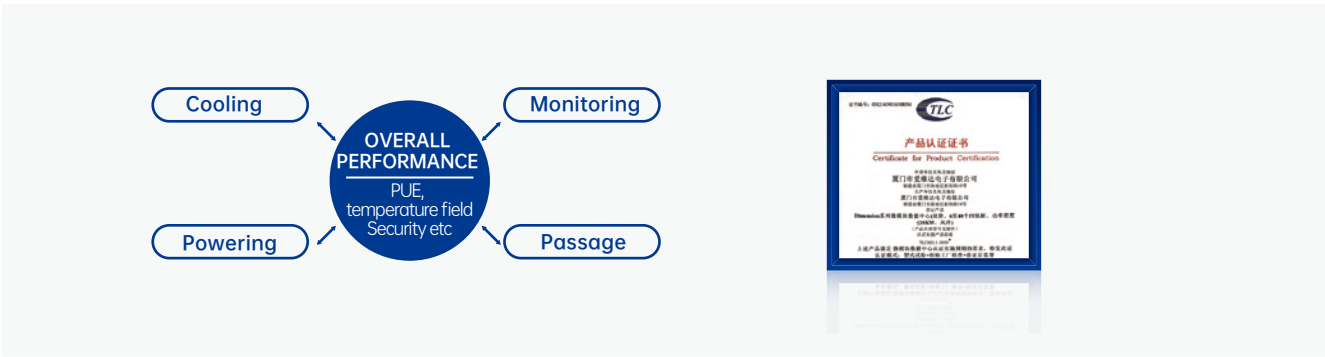
AI Introduction

Using AI to analyse maintenance data to establish a control input/ output cooling supply model, which can achieve the same frequency change as IT load in seconds, avoiding the waste of cooling in the conventional mode. System energy saving >35%;



Authorized Certification

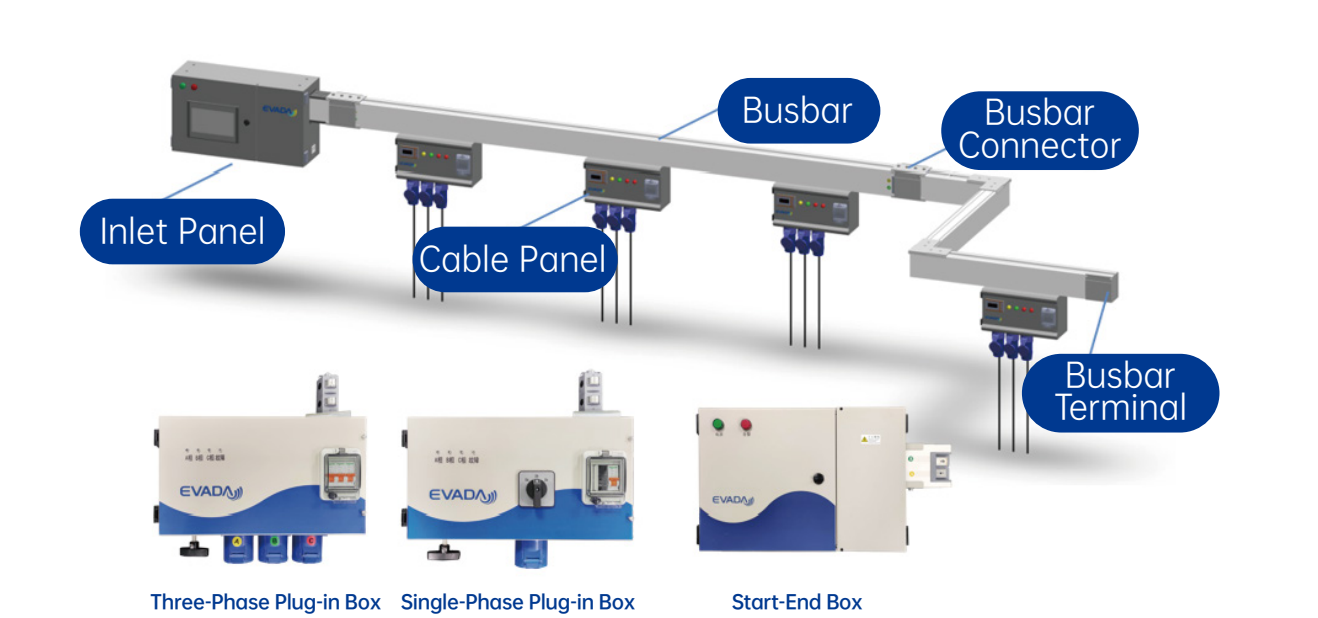
EVADA Dimension series modular data centers have passed the strict testing and certification, reaching the first-class energy efficiency level. And the PUE value index is excellent stability under different loads;



Optional Accessories

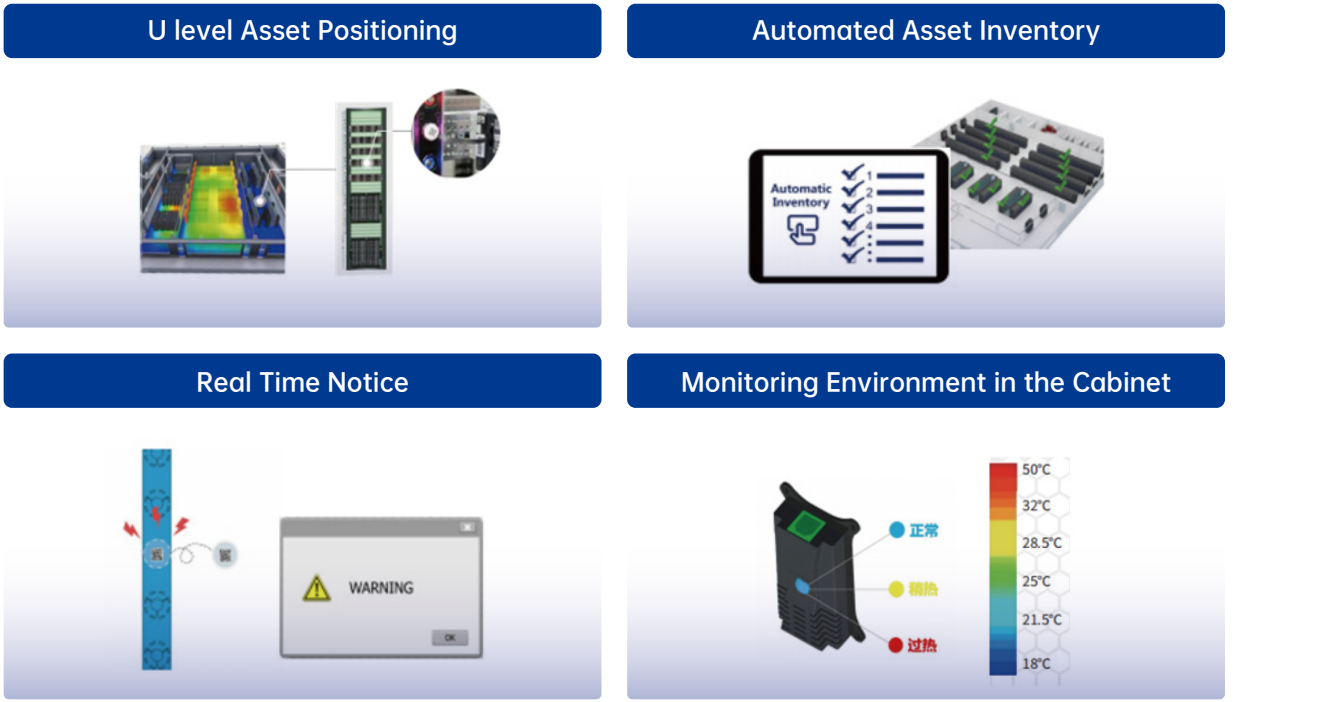
Intelligent Small Busbar

EVADA EP-iLine series use track-type precision busbars as the terminal distribution trunk system of key digital infrastructure: provide stable, safe and reliable power supply; product standards Intelligent design, rapid use, quick installation, flexible expansion, higher integration, and flexible modular products, intelligent solutions to achieve high-efficiency power management; maximum meet users' electricity needs and operation and maintenance management.



Asset Management

The system can realize functions such as space and status monitoring of the U-position of the cabinet, temperature and humidity environment monitoring, real-time asset tracking, millisecond-level automatic inventory of assets, and asset full life cycle management. This system can completely solve the problem of U-position IT asset management for enterprises and realize intelligent management of assets and space.



Dimension Merge

Modular data center solution

Product Introduction

Since "cloud computing + edge computing" will become a new data processing mode, many micro/small IDCs will be distributed at the edge of the network close to users. "Dimension" series single cabinet micro modular data center combined distributed power supply system DPS (or UPS+ maintenance-free lead-acid battery), power distribution, rack variable frequency air conditioning, emergency ventilation, monitoring, fire protection and other subsystems into a closed cabinet, to provide customers with a simple, practical, safe and reliable equipment environment.

Applications

Small and micro data centers, distributed business outlets, branches of large enterprises, IT equipment rooms of small and medium-sized enterprises, edge data centers, etc.

Features

Space saving

- integrated design, covers an area of only 0.72 square meters, saving more than 40% than the traditional construction mode;

Rapid deployment

- All-in-one design allows quick installation on site, rapid expansion according to the capacity.

High efficiency and energy saving

- fully enclosed cold and hot channels, combined with EC variable frequency rack air conditioning and UPS, which save more than 30% energy compared with traditional small data center.

Safe and reliable

- dust and noise proof design ensure the reliable operation. Equipped with emergency fan, smoke sensor, temperature sensor, access control to provide guarantee for the overall operation, can linkage fire.

Intelligent management:

- 10-inch large color touch screen allows direct monitoring temperature and humidity, UPS, air conditioning, power distribution and other parameters from the screen to achieve real-time working status and PUE value monitoring in the cabinet; It can also remotely monitor the working status in the cabinet and access the superior monitoring platform.



Specification



System	Description
Features	
Interface	10 inch color touch screen
Temperature	-20 ~ 45℃
Humidity	Relative humidity 0 ~ 95% (No condensation)
Altitude	≤1000 meter, The excess part is derated according to relevant standards
Optional	Blind plates, L-brackets, laminates, etc.
Installation	Direct installation on flat ground
Protection class	IP5X
W×D×H	600 ×1200×2000mm/600X1400X2000mm (42U)
Ups System	
Input voltage	220Vac, 50/60Hz, 1Ph+N+PE
UPS Capacity	3 ~ 10kVA
Output PF	≥0.8
Efficiency	≥92%
Work mode	Light running
Battery type	LiFePO4 battery/maintenance-free battery
Back up time	more than 5 minutes
Cooling System	
Cooling capacity	3.5 ~ 8kW
structure type	Rack
Cooling method	Air cooling
Air supply method	Front air supply, rear return air, fully enclosed
Distribution System	
Input voltage	220Vac, 50/60Hz, 1Ph+N+PE
Input method	One way (Option: two way)
Main power input	220V (32A~63A)
Lightning protection	C class
Output loop	UPS I/O, A/C switch, etc.
PDU	2*8/10A
Monitoring	
Monitoring volume	UPS、Power distribution, air conditioning, water leakage, temperature and humidity, smoke sensor,
Emergency way	Emergency ventilation / automatic pop-up device
Temperature and humidity sensor	Hot and cold aisle temperature and humidity
Fire control	Smoke sense, fire-fighting linkage
Access control security	Mechanical lock/smart lock (swipe card + password + fingerprint)
Alarm	Sound and light, SMS, atmosphere light linkage

* The products are subject to the actual products. The above specifications are subject to change without notice.

Ambient light notice

NFC lock

Facial ID

Front camera design
Ensuring better experience
when facial recognition

Dimension Magic

Modular data center solution

Product Introduction

Dimension Magic mini modular data center specially designed for small intelligent modular data center, integrating the distributed power system DPS (or UPS+ maintenance-free lead-acid batteries), power distribution, cooling, monitoring and other subsystems into a whole system. Each module is produced in factory and will be assembled to be single row modular data center in site, saving machine room space; In addition, the device can be flexibly expanded and configured according to application scenarios.

Applications

Small, medium and micro data centers, data centers of small and medium enterprises, computer rooms of small and medium network devices, and distributed business outlets



Features

Rapid deployment

- Rapid deployment without equipment room construction. Factory pre-integration: pre-installed cabinets, UPS, wiring, monitoring, and cooling devices in the supply chain to minimize onsite hardware installation time, improve deployment speed, and reduce delivery difficulty.

Intelligent maintenance

- unattended, to achieve 365 days 7X24 hours unified and intelligent humanized management, fast fault location and problem processing; The standard 10-inch touch screen allows to view various parameters, status, records, and alarm information in real time.

Green energy saving

- equipped with UPS, air conditioning, isolated hot and cold air flow to avoid cold loss. Compared with traditional machine room, the comprehensive energy consumption is reduced by more than 30% and the PUE value is lower than 1.5.

Safe and reliable

- provide reliable grounding at device level and system level to ensure reliable operation of equipment; Fully enclosed design to reduce the influence of dust on equipment operation; Choose low-noise EC fan Unit, which can be placed in the office area.

Specification



System	Description
Features	
Voltage	380/400/415Vac, 50Hz, 3Ph+N+PE (or 220/230/240Vac, 50Hz, 1Ph+N+PE)
Temperature	-20℃ ~ 45℃
Humidity	Relative humidity 0 ~ 95% (No condensation)
Altitude	≤1000 meter, The excess part is derated according to relevant standards
Number of cabinets	2 ~ 8
Support maximum power consumption of IT load	40kW
Single cabinet power consumption	3 ~ 5kW
Installation	Concrete floor, raised floor
IT cabinet weight	Static load : ≥1500kg, dynamic load : ≥1000kg
W×D×H	600×1200×2000mm/600X1400X2000mm
Cooling	
Voltage	220/230/240Vac, 50Hz, 1Ph+N+PE
Rated cooling capacity	3.5kW/4KW/6KW/8kW/12.5kW
Cooling	Direct expansion air cooling
Energy efficiency ratio	≥3.0(Ratio frequency)
Installation	Rack or row mount
Air volume	700m³/h ~ 2500m³/h
Temperature and humidity	Temperature control ±1℃, humidity control±2%
Air supply method	Front/Side Air Supply, Rear Return Air
Distribution	
Lightning protection	ClassII/C class, In20kA, Imax40kA,8/20us
Input method	One way (Option: two way)
Installation	Rack
PDU	12 bits 10A + bits 16A
UPS choice	Rack-mounted high-frequency UPS/rack-mounted modular UPS/distributed power system (DPS)
UPS capacity	6kVA ~ 60kVA
UPS other parameter	See UPS system for details
Monitor	
Monitoring objects	UPS, power distribution, air conditioning, water leakage, temperature and humidity, smoke sensor, door sensor
Function	Data collection and storage, alarm management, energy consumption analysis, remote access, sound and light alarm (optional), SMS alarm (optional), APP (optional)
Display	10 Inch touch screen

* The products are subject to the actual products. The above specifications are subject to change without notice.

Dimension Meta

Modular data center solution

Product Introduction

Dimension Meta micro module is a new generation of intelligent modular data center products. With 24 years industry experience and R&D technology, Dimension Meta data center infrastructure satisfy the consistency of the appearance, interface and protocol design and ensures safety and reliability. The modular design effectively integrates the power supply, cooling, monitoring, cabinet, aisle, and cabling systems, enabling rapid deployment and flexible capacity expansion, making the data center infrastructure more energy-efficient, intelligent, flexible, and significantly improving the reliability and availability of data centers.

Applications

Medium and large core data centers, information centers of state organs, public institutions, information data center rooms, cloud data centers, core data centers of government institutions.



Features

Security and reliability

- Product-level factory inspection, to obtain higher quality assurance; Intelligent monitoring to improve the safe and reliable operation and maintenance management of data centers;

Rapid and flexible deployment

- standardized components, overall delivery; Factory prefabricated and pre-debugging and on-site plug and play to achieve rapid capacity expansion. Sub-systems such as power supply and distribution, cooling, and cabinets can be integrated and deployed in different scenarios.

High efficiency and energy saving

- efficient power supply and distribution architecture, cooling mode close to heat source, closed channel isolation hot and cold air flow, effectively reduce PUE value, save energy consumption by more than 20-30%, achieve energy saving and emission reduction and reduce operating costs;

Operation and maintenance intelligence

- Monitoring system centralizes management of power, environment, security, fire and other conditions, through sound and light, SMS, APP and other alarm methods. 7X24 hours comprehensive monitoring and intelligent management, support remote management of multiple branches, fast fault location.

Specification



System	Description
Features	
L×W×H	(Single row)L×2300mm (2400mm)×2600mm (2300mm), L≤15M
L×W×H	(Double row)L×3400mm (3600mm)×2600mm (2300mm), L≤15M
Number of single module cabinets	Double row cabinet: ≤48; Single row cabinet: ≤24
Single Cabinet Power Consumption	Design Power 3 ~ 6KW, maximum supported 14KW
Reliability level	TierII or TierII above
Working environment	-30℃ ~ +45℃
Altitude	≤1000 meter, The excess part is derated according to relevant standards
Installation	Floor installation, with or without anti-static floor
Cabinet system	
Size	600/800 (W) x 1100/1200 (D) x 2000/2200 (H), For other sizes, please contact Evada
Available space	42U/47U
Through porosity	75% above
Static bearing	≥1800KG
Seismic rating	8,9 Intensity
Closed channel	
Skylight	Reversible sunroof, functional sunroof, fixed sunroof; other non-standard please contact Evada
Door	Rotary sliding door, manual/automatic sliding door
Wireway	M-type strong and weak electrical isolation wiring duct
Light	Human body infrared sensor LED lighting
Seismic rating	8.9 Intensity
UPS system	
Input rated voltage	380/400/415Vac, 50/60Hz, 3Ph+N+PE
Input power factor	≥0.99
Output power factor	1.0
Rated capacity	20~300kVA, Support online expansion
System efficiency	≥96%
Working way	Online modular UPS (support online hot swap maintenance)
Protection class	IP20
Distribution system	
Input voltage	380/400/415Vac, 50/60Hz, 3Ph+N+PE
Rated capacity	16 ~ 630A
Input way	Single/Dual
Switch category	UPS Input and output air switch, air conditioner air switch, output branch circuit air switch
Others	C-level lightning protection, 10-inch touch screen, support RS485 remote monitoring
AC system	
Cooling capacity	Air cooling: 25kW/40kW/50KW; freeze water: 35kW/65kW
WxDxH	300/600mm×1200mm×2000mm
Cooling method	Air cooling:/freeze water
Input power	3 phase 380Vac, 50Hz
Monitor	
Environment monitor	Temperature and humidity, smoke, access control, camera, water leakage, etc
Power monitoring	UPS power supply, battery, power distribution cabinet, air conditioner
Others	21-inch touch screen, skylight fire linkage, ambient lighting alarm, etc

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Server Cabinets

Features

- Compliant with ANSI / AIARS -310 -D. DIN 41491: PART 1. IEC 60297- 2. DIN41494: PART7, GB/T3047.2-92 S and other standards;
- The cabinet load-bearing parts are made of SPCC 2.0 mm high-quality cold-rolled steel plates, and the front and rear door panels are not less than 1.2mm, others not less than 1.0mm;
- The surface adopts degreasing, ceramicization and electrostatic spraying technology; the overall protection level is IP20 ;
- Honeycomb hexagonal high-density mesh door, ventilation rate up to 75%, maximum door opening angle >135°;
- Maximum static load up to 2650 kg Above, and passed the TTL load-bearing capacity test;
- The keys for the front, rear and side doors are universal, and the front and rear door locks can be quickly replaced with password locks. ;
- The brush-type cable entry holes on the top and rear effectively prevent dust from falling into the cabinet, and the cable routing channel is flexible.
- Multiple cable management channels are reserved at the bottom of the cabinet, which can be flexibly adjusted as needed;
- Passed 8 and 9 intensity earthquake resistance tests;
- A wide range of optional accessories.

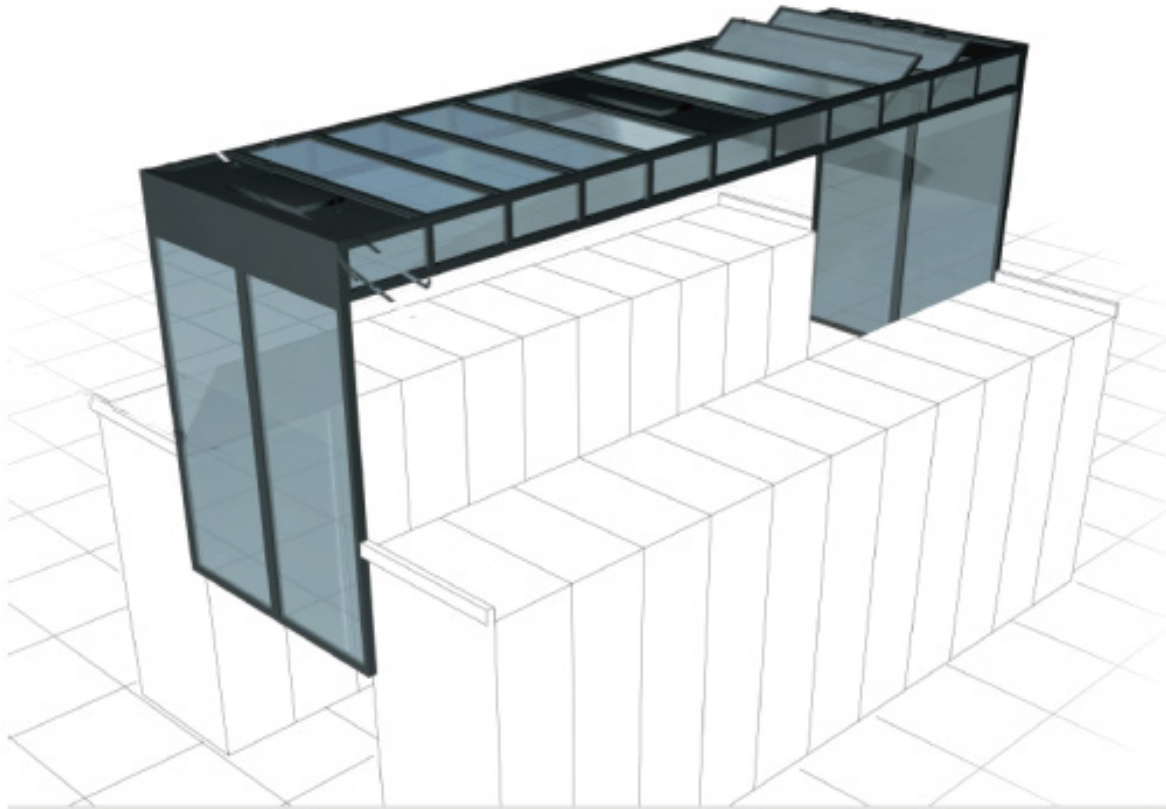


Closed Channel

Isolate the hot and cold channels of the cabinet to avoid local hot spots caused by the interaction of cold and hot air flows . Improve the cooling efficiency by increasing the supply and return air temperatures, increase the cabinet power density, and directly reduce the planned area of the computer room. Save construction costs.

Features

- The end doors have diversified designs to meet the needs of different customers;
- Modular design, skylights with different functional specifications can be installed independently;
- The integral skylight can be linked with the fire protection, and the flip opening angle is >89°;
- Each skylight is equipped with a human infrared sensor LED lamp, and the passage meets the lighting standards of the computer room;
- The overall light transmittance is as high as over 92%, ensuring lighting in the channel and having explosion-proof function;
- After the skylight is opened, the net height of the cold channel is not lower than the cabinet height, which does not affect daily maintenance work and ensuring personnel safety;
- The enclosed channel has passed the earthquake intensity 8 and 9 tests.



UPS System--Rack UPS

DTH SERIES RACK MOUNT UPS

Key Features

- Standard 19-inch rack-mount design, backup battery compatible with lithium iron battery;
- Using input power factor correction (PFC) technology, the input power factor is as high as 0.99;
- Adopt the most advanced DSP full digital control to effectively improve product performance and system reliability;
- Ultra-wide input voltage and frequency range, avoiding frequent switching to battery, compatible with generator input;
- With battery cold start function, the machine can be started directly with battery when the mains power is abnormal or there is no mains power to meet emergency needs;
- ECO mode, high efficiency and energy saving, reducing user costs;
- Communication management: RS232/RS485 (optional) /SNMP (optional) /dry contact (optional).



HQ-MR SERIES MODULAR UPS

Key Features

- Rack-mounted design, suitable for 19-inch standard IT cabinets, integrated with input and output power distribution;
- Online hot-swap + front maintenance, reducing expansion and maintenance time; backup battery standard lead-acid battery
- Battery, compatible with lithium iron battery; Intelligent self-aging function, energy saving over 95%, no need to rent dummy load, saving usage and installation cost;
- Intelligent speed-adjustable fan effectively reduces fan noise;
- THDi <3% & input power factor up to 0.99 reduces harmonic pollution to the power grid;
- ECO mode ensures the highest efficiency in a good power grid environment and saves energy consumption;
- Friendly human-machine interface with large touch screen, capable of displaying Chinese, English and other languages;
- Communication management: RS232, RS485, (SNMP/LBS cable/lightning protection component-optional);
- The system supports direct battery starting to meet the emergency starting requirements in scenarios without mains power.



Specification



Model	DTH11-1KR	DTH11-1KRL	DTH11-2KR	DTH11-2KRL	DTH11-3KR	DTH11-3KRL	DTH11-6KRL	DTH11-10KRL
Capacity	1kVA		2kVA		3kVA		6kVA	10kVA
Input								
Voltage Range	1 Phase (L+N+PE) 110 ~ 300VAC							
Frequency Range	40Hz ~ 70Hz							
Power Factor	≥0.99							
THDi	< 3% (100% linear load) ; < 5% (100% nonlinear load)							
Output								
Voltage	208/220/230/240VAC							
Voltage Accuracy	±1%							
Frequency Range	50/60Hz ± 0.1%							
Overload	102%~110%, 30min; 111%~130%, 10min; 131%~150%, 30sec; > 150%, 0.2sec							
Power Factor	1							
THDu	≤2% @ (100% linear load); ≤5% @ (100% nonlinear load)							
Switching Time	0ms							
Efficiency								
Inverter Mode	94.5%		>95.5%					
Battery								
Standard	Model	12V / 7Ah						
	Number	2	4	6		16-20		
	Charging Current	1-4A Configurable(default 1A)						
	Rated Voltage	24V	48V	72V		192-240V		
Long Backup	Number	3	6	8		16-20		
	Charging Current	1-12A Configurable(default 5A)						
	Voltage	36VDC	72VDC	96VDC		192-240VDC		
System								
Communication	RS232, USB, optional: RS485, dry contact, SNMP							
Environment								
Operating Temperature	0 ~ 40℃							
Humidity	0 ~ 95%(Non-condensing)							
Altitude	< 1000M no derate, > 1000m derate(refer to IEC62040)							
Noise	< 50dB @ 1m							
Physical								
Standard	WxDxH(mm)	440x369x88	440x449x88		440x600x88		440x470x88	
	Weight(kg)	10.2	17.3		22.5		51	60.8
Long Backup	WxDxH(mm)	440x369x88	440x449x88				440x470x88	
	Weight(kg)	5.7	7.5		8.0		10.8	11.6

* Specifications subject to change without notice.

UPS System--Modular UPS

Product Introduction

In order to adapt to the development needs of the market, EVADA has launched the HQ-M series modular UPS solution, which can be flexibly configured between 20-300 kVA according to customer needs. The power module adopts the industry's advanced Digital control technology and active PFC technology greatly improve the power factor and improve the quality of electric energy, which is a good response to the slogan of green energy saving; accurate and reliable output current balancing the performance and advanced intelligent management system will further improve the reliability, availability and maintainability of equipment, and will be widely used in large data centers, government, military, radio and television, communications, medical care, energy and power, etc. The industry has been widely used and won trust from customers.



Key Features

Safe and reliable

- Proprietary parallel technology ensures the reliability of multi-module parallel connection;
- The power module N+X redundant design can provide up to 20% redundant capacity at 100% load, achieving the highest B-level availability within the rack.
- Independent routing of communication signal cables and metal cover protection design to avoid REPO and other communication system malfunction due to misoperation;
- UPS and lithium battery BMS system interact with each other in real time to realize intelligent control of battery;
- The PCB board inside the power module adopts an inverted design. The hot parts are layered up and down, with good heat insulation and dustproof effects and strong environmental adaptability.

High efficiency and energy saving

- The output power factor is 1, and the load capacity is increased by more than 10%;
- System efficiency up to 96%, energy consumption and operating costs were reduced by more than 30%;
- Intelligent self-aging function, energy saving over 95%, no need to rent fake load;

- Input current harmonics <3%, input power factor up to 0.99, protecting the grid from harmonic pollution;
- The power module intelligently standby to improve the system's light-load operating efficiency.

Simple and flexible

- The power module supports phased deployment and capacity expansion as needed, reducing customers' initial investment costs;
- The bypass module and power module both support online hot swapping, and the maintenance time is less than 5 minutes;
- 7-inch large color touch screen, graphical display;
- The system supports full-configuration input, output, bypass and maintenance bypass switches, and is compatible with top and button incoming lines;
- Ultra-wide battery adjustment range helps to accurately configure battery capacity and flexibly utilize battery packs on site, saving customers' investment;
- The system supports direct battery start to meet the emergency start requirements in scenarios without mains electricity;
- 50A/2U large-capacity charging module, seamlessly compatible with the power module slot, suitable for fast charging application.

Specification



Model	HQ-M60	HQ-M75	HQ-M80	HQ-M100	HQ-M120	HQ-M140	HQ-M150	HQ-M175	HQ-M200	HQ-M300
Capacity	60kVA	75kVA	80kVA	100kVA	120kVA	140kVA	150kVA	175kVA	200kVA	300kVA
Cabinet Type	4 Modules				7 Modules				12 Modules	
Power Module Capacity	10/15/20kVA	25kVA	10/15/20kVA	25kVA	10/15/20kVA		25kVA	25kVA	10/15/20kVA	25kVA
Input										
Rated Voltage	3 Phase+N+PE 380/400/415VAC(Line voltage)									
Rated Frequency	50/60Hz									
Voltage Range (Full Load)	304 ~ 478VAC									
Frequency Range	40 ~ 70Hz									
Power Factor	>0.99									
THDi	< 3%(100% linear load) ； < 5%(100% non-linear load)									
Bypass										
Rated Voltage	380/400/415VAC(Line voltage)									
Voltage Range	Default: -20% ~ +15%; configurable, upper limit: +10%, +15%, +20%, +25%; lower limit: -10%, -15%, -20%, -30%, -40%									
Battery										
Voltage	±192VDC(±180 ~ ±264VDC, 30 - 44 units configurable, default: 32 units)									
Output										
Rated Voltage	380V/400V/415V(Line voltage)									
Rated Frequency	50/60Hz									
Power Factor	1									
Voltage Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load									
Frequency Accuracy	50/60Hz ± 0.1%									
Frequency Tracking Range	±0.5Hz ~ ±5Hz, configurable, default: ±3Hz									
THDu	≤ 2%(100% linear load), ≤ 4%(nonlinear load)									
Three-Phase Accuracy	120° ± 1°									
Crest Factor	3:1									
Overload	≤105%, long run; 105% ~ 110%, 60min; 110 ~ 125%, 10min; 125~150%, 1min; >150%, switch to the bypass immediately									
System										
Efficiency	96%									
Display	7" Touch screen + LED									
Wiring	Bottom in				Support top in and bottom in				Top in	
Standard	IEC62040-1-1; IEC62040-2; IEC62040-3									
Optional	Lightning protection module, dustproof net, load break switch cable, seismic kit									
Protection Class	IP20									
Communication	RS232/ RS485, optional: SNMP/dry contact									
Operating Temperature	0 ~ 40℃									
Humidity	0 ~ 95%(Non-condensing)									
Altitude	< 1000M no derate, > 1000m derate 1% per 100m									
Noise	<65dB @ 1m									
Size										
System W x D x H(mm)	600 x 850 x 1200				600 x 850x 1600				600 x 1010 x 2000	
Module W x D x H(mm)	440 x 690 x 86(2U)									
Weight										
System(kg)	145				210				239	
Module(kg)	20(10kVA), 22(15kVA), 24(20kVA), 25(25kVA)									

* Specifications subject to change without notice.

UPS System--Modular UPS

Product Introduction

Online Double Conversion
200kVA-800kVA, 3 Phase Input, 3 Phase Output

Applications

Small and micro data centers, distributed business outlets, branches of large enterprises, IT equipment rooms of small and medium-sized enterprises, edge data centers, etc.



Key Features

Green Performance

- Efficiency up to 96%
- Output PF = 1
- Maintenance bypass mode
- THDi < 3% and input PF > 0.99
- ECO mode efficiency up to 99%

Intelligent Flexibility

- 30-44 units battery configurable
- Hot-swappable bypass/power module
- Allowing common battery group for parallel

High Reliability

- Distributed control system for power module
- Isolated air duct for key components
- BMS monitors battery information in real time
- Power module N+X redundancy design
- 50kVA Module with display&indicators
- Fan speed automatically adjusts according to the load
- Multiple communication methods
- Cold start function

Specification



Model	HQ-M200	HQ-M300	HQ-M400	HQ-M500	HQ-M600	HQ-M800
Capacity	200kVA	300kVA	400kVA	540kVA	600kVA	800kVA
Cabinet Type	5(4+1) Modules	7(6+1) Modules	12(8+4) Modules	12(10+2) Modules	12 Modules	14 Modules
Power Module Capacity	40kVA/50kVA			50kVA	50kVA/60kVA	60kVA
Input						
Rated Voltage	3 Phase+N+PE 380/400/415VAC(Line voltage)					
Rated Frequency	50/60Hz					
Voltage Range (Full Load)	304 ~ 478VAC					
Frequency Range	40 ~ 70Hz					
Power Factor	>0.99					
THDi	< 3%(100% linear load) ； < 5%(100% non-linear load)					
Bypass						
Rated Voltage	380/400/415VAC(Line voltage)					
Voltage Range	Default: -20% ~ +15%; configurable, upper limit: +10%, +15%, +20%, +25%; lower limit: -10%, -15%, -20%, -30%, -40%					
Battery						
Voltage	±240VDC(±180 ~ ±264VDC, 30-44 units configurable, default: 40 units)					
Output						
Rated Voltage	380V/400V/415V(Line voltage)					
Rated Frequency	50/60Hz					
Power Factor	1					
Voltage Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load					
Frequency Accuracy	50/60Hz ± 0.1%					
Frequency Tracking Range	±0.5Hz ~ ±5Hz, configurable, default: ±3Hz					
THDu	≤2%(100% linear load), ≤4%(nonlinear load)					
Three-Phase Accuracy	120° ± 1°					
Crest Factor	3:1					
Overload	≤105%, long run; 105% ~ 110%, 60min; 110 ~ 125%, 10min; 125 ~ 150%, 1min; >150%, switch to the bypass immediately					
System						
Efficiency	96%					
Display	10" Color touch screen +LED					
Wiring	Support top in and bottom in					Top in
Standard	IEC62040-1-1; IEC62040-2; IEC62040-3					
Optional	Lightning protection module, dustproof net, load break switch cable, seismic kit					
Protection Class	IP20					
Communication	RS232/RS485, optional: SNMP/dry contact					
Operating Temperature	0 ~ 40℃					
Humidity	0 ~ 95%(Non-condensing)					
Altitude	< 1000M no derate, > 1000m derate 1% per 100m					
Noise	< 70dB @ 1m					
Size						
System W x D x H(mm)	600 × 850 × 2000	600 × 1100 × 2000	1000 × 1100 × 2000			1800 × 850 × 2000
Module W x D x H(mm)	440 x 720 x 130(3U)					
Weight						
System(kg)	190	286.5	372.5			610
Module(kg)	32.5(40kVA), 33.5(50kVA), 35(60kVA)					

* Specifications subject to change without notice.
* When battery number is 30/32/34 units, power derate.

UPS System--Distributed Power System DPS

Product Introduction

EVADA DPS series products are distributed power systems, which are uninterruptible power system products designed and developed for the new generation of green data centers. Combined with the new lithium battery energy storage technology, it has the characteristics of small size, light weight, high intelligence and easy deployment. It is widely used in distributed data centers, phased deployment of data centers, and rapid deployment of data centers. Power supply application scenarios such as power supply center and integrated cabinet.



6kVA--10kVA

Key Features

Stable and reliable

- With dual 220 Vac input and dual 220 Vac output;
- Each output can be controlled in time, and energy management system can be used to achieve cabinet-level energy management;
- DPS forms a resource pool to eliminate service interruptions caused by single point failures and improve the overall power supply reliability;
- Lithium battery backup system, lifespan up to 10 years;
- Compatible with T2/T3/T4 levels, greatly ensuring continuous and uninterrupted power supply.

Simple and flexible

- Deployment does not require independent distributed power system space and battery room, increasing the number of effective cabinets more than 40%;
- Simple operation and maintenance, IT-based equipment architecture, weight is comparable to that of a server, and the load-bearing capacity is only 500 kg/m²;
- Modular design, power module and lithium battery support hot swap, more convenient installation, easy maintenance;
- Supports parallel connection of lithium battery modules, and the system backup time can be flexibly configured ;
- The rack-mount design allows for rapid deployment in phases as needed, effectively protecting investment.

Smart and convenient

- Equipped with DC bus parallel current sharing control technology;
- Adopt interactive communication technology to realize intelligent battery management;
- Special heat dissipation holes and air duct design can accurately control the temperature of the power supply and lithium battery;
- Communication interfaces to flexibly meet data center monitoring needs and can be used in conjunction with cloud computing Conduct dispatch;
- LCD+LED display design shows equipment operating status and information at any time.

High efficiency and energy saving

- System efficiency is up to 95%;
- Discharge efficiency is up to 97%;
- The distributed power supply mode puts the power consumption of traditional large UPS into the cabinet, reducing PUE value;
- Low input THDi and ultra-high input PF reduce pollution to the power grid;
- Quiet operation, reducing noise disturbance.

Specification

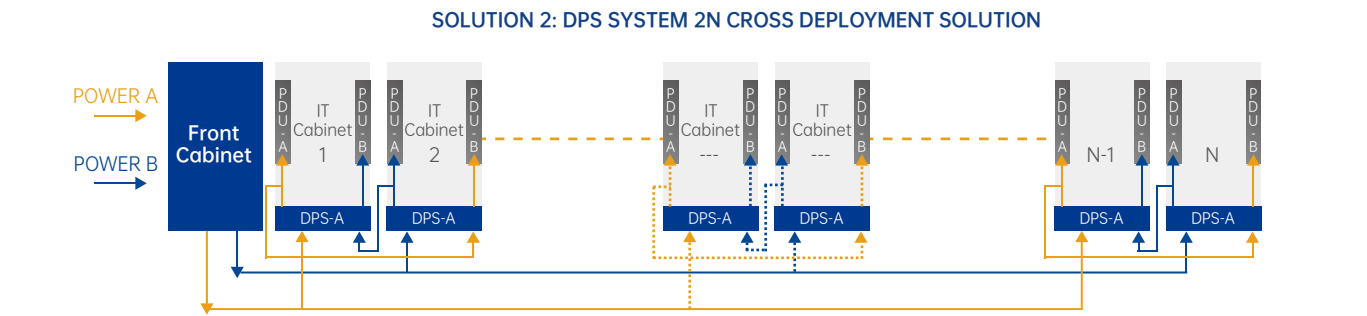
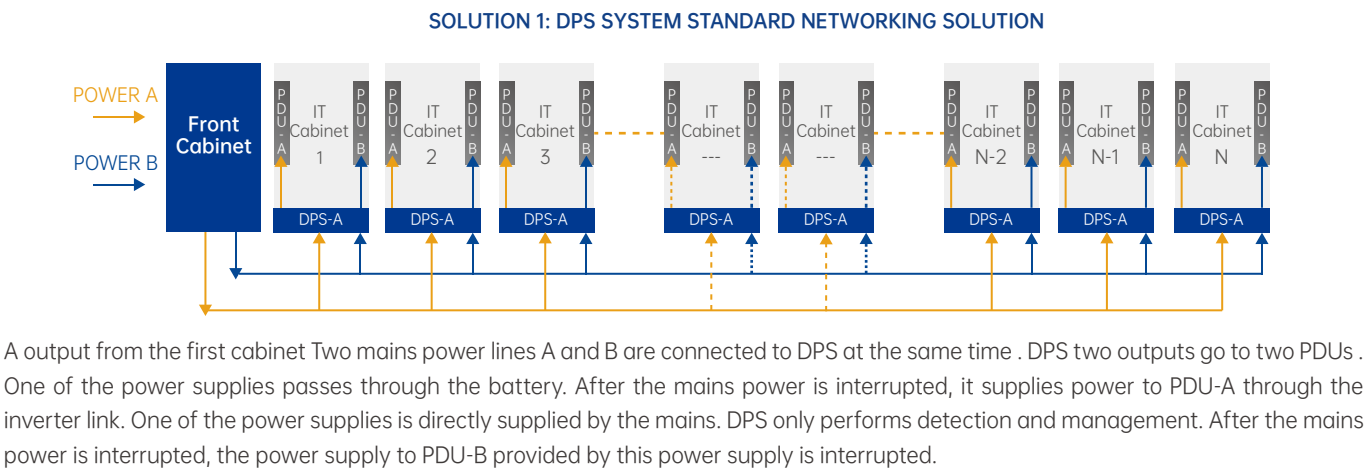


Model		DPS-1106A	DPS-1110A
Capacity		6kVA	10kVA
Input			
Voltage		220VAC	
Voltage Range		176~300VAC @ (80~100%) load	
Frequency Range		46Hz~54Hz @ 50Hz system; 56Hz~64Hz @ 60Hz system	
Power Factor		≥0.99	
Output			
Voltage		208/220/230/240VAC	
Voltage Accuracy		±1%	
Frequency Range	Standard	46Hz~54Hz @ 50Hz system; 56Hz~64Hz @ 60Hz system	
	Battery Mode	50Hz ± 0.1Hz or 60Hz ± 0.1Hz	
Power Factor		0.9	
Crest Factor		3:1	
THDu		≤1% @ (100% Linear load); ≤4% @ (100% non-linear load)	
Switching Time	(Mains →Battery)	0ms	
	(Inverter→ Bypass)	0ms	
	(Inverter → ECO)	<10ms	
Wiring			
Numbers of Input and Output		2 Inputs and 2 outputs	
Efficiency			
Inverter Mode		>95%	
Battery			
Voltage		230V Lithium battery	
Capacity		10/15/20/25/30Ah	
System			
Display		LCD+LED	
Communication		RS485, USB	
Environment			
Storage Temperature		-25~55°C	
Operating Temperature		0~45°C	
Humidity		<95% (Non-condensing)	
Altitude		<1000m no derate, > 1000m derating 1% per 100 m	
Noise		<55dB @ 1m	
Physical			
WxDxH(mm)		440×750×177 (4U)	440×750×266 (6U)
Weight(kg)		34	38

* Specifications subject to change without notice.

UPS system--Distributed Power System DPS

DPS Power Supply and Distribution Networking Solution



Note: When the A and B mains are from different sources, it is recommended to use solution 1; when the A and B mains are from the same source, it is recommended to use solution 2.

Comparison of DPS and Traditional UPS Power System

Items	Traditional UPS Power System	Distributed Power System
Design	Pre-planning capacity, low-load operation in the early stage, difficult design, and difficult transformation in the later stage	Simple early design, simple later expansion and transformation
Reliability	The failure of a single machine has a significant impact on the overall power supply, and the investment in parallel operation is high.	Distributed power supply systems form resource pools, which not only eliminate business interruptions caused by single point failures, but also provide Improve the reliability of the entire system
Infrastructure	The UPS room and battery room must be planned during infrastructure construction , which places high demands on the floor load-bearing capacity.	No need to plan UPS room and battery room, low floor load requirement and high space utilization
Construction Method	One-time investment, low efficiency at the initial operation when the load rate is low, and investment is likely to be wasted	Deploy in phases as needed according to business development to effectively protect investment
Operation and maintenance	Professional power operation and maintenance engineers are needed	Simple operation and maintenance, IT-based equipment architecture, hot-swap support
Overload Tolerance	Overloading is generally not allowed	A single device has a 50% overload tolerance, and resources can be dispatched to each other in the energy pool.
Energy Saving	Due to low load factor, the operating efficiency is low	The energy management system can dynamically adjust the equipment load rate and achieve high operating efficiency
Backup power system	Lead-acid batteries have low charging and discharging efficiency, short life, low power density, large footprint, and high load-bearing requirements.	Adopt lithium battery system, high charging and discharging efficiency, long life, high power density, light weight and easy management

Maintenance-Free Lead-Acid Battery

With the rapid development of the Internet and the advent of the 5G era, the construction of data centers will increase significantly. In order to cooperate with the application of our modular UPS and the construction of data center computer rooms , EVADA launched E12 series valve-regulated maintenance-free lead-acid batteries were launched. Adhering to the concept of customer first, different design concepts are adopted according to different application requirements and usage occasions, and combined with advanced automated production processes, the battery performance and reliability are greatly improved, which is more in line with actual needs. The comprehensive performance of the battery has been qualitatively improved, and the cost performance and compatibility are optimized; Evada E12 series valve-regulated maintenance -free lead-acid batteries have better rate characteristics and more reliable quality assurance, providing reliable power guarantee for data centers with different needs.

Features

- EVADA E12 series sealed valve-regulated lead-acid batteries are maintenance-free and acid-free batteries that are safe and reliable.
- The battery adopts a Pb - Ca - Sn alloy grid design with an optimized ratio , which can adapt to floating charging applications in various working conditions.
- The design life is up to 12 years. The optimized oxygen circulation channel design and electrolyte ratio ensure the battery life while effectively reducing the risk of thermal runaway during long-term use of the battery.
- Specific active material formula takes into account the battery's specific energy and specific power requirements.
- It complies with UL94-V0 flame retardant requirements, effectively ensuring customer system safety and making use more secure.



E12 Series
Maintenance-Free Lead-Acid Battery

Key Specification

Design Life	10+ years
Operating Temperature Range	-15°C ~ 45°C
Recommended Operating Temperature Range	Charging: 0°C ~ 40°C; Discharging: - 20°C ~ 55°C; Static Storage: -15°C ~ 50°C
Float Charge Voltage	13.5V - 13.8V; recommended value 13.6V
Equalizing Charging Voltage	14.1V - 14.4V; Recommended value 14.1V
Float Charge Temperature Compensation Coefficient	-3.5mV/°C
Cyclic Use Temperature Compensation Coefficient	-3.5mV/°C
Recommended Maximum Charging Current	0.25CA
Self-Discharge	Less than 3% (25°C)

Main Specifications

Battery Model	Rated Voltage (V)	C10 (Ah)	Length (L)	Width (W)	High (H)	Total Heigh (TH)	Weight (kg)	IR (mΩ)	Terminal
E12-7-N	12	7	151	65	94	100	2.12	27	F2
E12-17-N	12	17	181	76	165.5	167	5.4	14	M6
E12-24-N	12	24	165	125	174.5	176	7.6	16	M6
E12-38-N	12	38	196	165	165	170	12.2	9	M6
E12-50-N	12	50	257	132	193	198	16	7.2	M6
E12-65-N	12	65	314	166	169	174	20	6.3	M6
E12-100-N	12	100	330	174	217	226	29	4.9	M8
E12-120-N	12	120	375	174	219	227	33.8	4.1	M8
E12-150-N	12	150	483	171	218.5	223.5	41.5	3.5	M8
E12-200-N	12	200	522	234	218	227	57.8	3.0	M8
E12-250-N	12	250	534	271	225	233	71	2.5	M8

Precision Power Distribution Cabinet

Rack-Mount Power Distribution Unit

Key Features

- Rack-mounted design, including mains, UPS, air conditioning and load power distribution , manual maintenance bypass, convenient for on-site maintenance;
- Detect the main input power, including voltage, current, apparent power, actual power, etc. connected with monitoring through modbus communication, can collect energy consumption infor;
- Optional ATS dual power input module N+1, 2N and other high-reliability power supply and distribution modules;
- The main switch components are all from well-known brands with reliable quality;
- Contains Class C lightning protection module for improved safety.



Rack-Mount Power Distribution Unit

Precision Front Cabinet

Key Features

- Adopt 19" standard cabinet, good compatibility, simple and flexible configuration;
- All components are from well-known brands, and connected with copper bars to ensure electrical reliability;
- Standard 10-inch full-color touch screen, real-time display of power supply parameter, voltage, load, harmonic , electricity accumulation and other data monitoring and statistic;
- Complete alarm function, with threshold alarm settings for main circuit and branch circuit, effectively preventing wrong operation;
- Adopt high-performance monitoring devices, powerful data acquisition units and superior system performance System management software can effectively manage the power distribution system and monitor the 2-way power supply lines and Up to 128 feeder circuit power parameter information, can display branch current trend graph, flow Process chart, real-time monitoring of the switch's opening and closing status;
- Equipped with local sound and light alarm and remote communication via (RS485/MODBUS communication protocol);
- It can be "customized on demand",and the solution can be deployed quickly.



Precision Display Cabinet

Cooling System--Rack Air-Con

ECR Series Rack-Mounted Air Conditioners

Embedded cabinet design does not occupy the space of the computer room; the air conditioner is close to the heat source for cooling, with zero cooling loss. Reduce energy consumption; DC variable frequency compressor, dynamic cooling, variable cooling capacity adjustment; high-efficiency electronic expansion Valve to accurately control the refrigerant flow; pull-out design for easy installation and maintenance.



ECR Rack Air Conditioning

ECR Series Indoor Unit Parameters

Indoor unit model	ECR04A	ECR05A	ECR08A	ECR13A
Main Power	220V 1Ph 50Hz			
Cooling (kW)	3.5	5.0	7.5	12.5
Sensible colling (kW)	3.5	5.0	7.5	12.5
Wind (m³/h)	800	1100	1650	2200
Liquid pipe (mm)	6.35	6.35	9.52	9.52
Air pie (mm)	12.7	12.7	15.88	15.88
Width (mm)	443	443	443	443
Depth (mm)	715	715	715	715
Height (mm)	218 (5U)	218 (5U)	351 (8U)	440 (10U)
Max Current FLA(A)	11.5	16.5	20	35
Weight (kg)	27	28	36	42
Inter Power Cable	3 X 2.5	3 X 2.5	3 X 4	3 X 6
Switch (A)	16	20	32	40

Outdoor Unit Technical Parameters

Outdoor unit model	EAC05	EAC07	EAC10	EAC16
Main Power Supply	220V 1Ph 50Hz			
Outdoor Unit Size and Weight				
Length (mm)	794	794	1027	1019
Depth (mm)	310	310	405	405
Height(mm)	537	537	733	1343
Weight (kg)	30	34	60	85
Recommended Cable Specifications				
Power Cable	3 X 1.5	3 X 1.5	3 X 2.5	3 X 4

* The actual product shall prevail. The above specifications are subject to change without prior notice.

Cooling System -- In-Row Air-Con

Product Introduction

ECF series int-row air conditioner is a cooling, efficient and energy-saving precision air conditioner for computer rooms. It is installed side by side with the server cabinets. It supplies air from the cold channel in front and returns air from the hot channel in the back. It solves the problem of mixing and short-circuiting of cold and hot air in conventional air conditioners, thereby ensuring uniform temperature in the server cabinets, eliminating local hot spots, and circulating air volume between the cold and hot channels and inter-row air conditioners. Closed loop is particularly suitable for micro-module systems with closed hot and cold channels. It is equipped with advanced controllers to control air volume and cooling output on demand. It can accurately control the temperature and humidity of the computer room, and can effectively reduce overall energy consumption while ensuring effective cooling.



Row Air Conditioning

Application Areas

High-density data centers, computer rooms, partial overheated computer rooms, high heat density computer rooms, modular data centers Data center, container data center, etc.

Features

DC frequency variable compressor

- Adopt R410A environment-friendly refrigerant, DC frequency variable compressor
- Dynamic cooling to adapt to rapidly changing server room heat load
- Save energy and improve energy efficiency at low loads



Electronic expansion valve

- Smooth adjustment of throttle opening, to achieve energy saving;
- Wide adjustment range, reduce heat, improve energy efficiency ratio;
- Achieve accurate matching of cooling capacity and load;
- Fast reaction, precise cooling



Monitoring system

- Graphical display function, including operating status and air temperature and humidity in and out of the tested cabinet;
- Advanced monitoring system, group monitoring 32 units, easy networking;
- Standard RS485 interface, ModBus protocol;
- Support TCP/IP, SNMP protocol;
- Provide standard communication protocols,



EC Fan

- Easy maintenance design;
- Using electronic commutation synchronous EC motor, energy saving 20%~30%;
- Soft start function, low start current;
- Automatically adjust the fan speed according to the cooling demand or wind pressure, and provide air volume as required;



ECF Series Indoor Unit Parameters



Indoor unit model	ECF012A	ECF025A	ECF040A	ECF050A	ECF060A
Main power supply	380V3Ph - 50Hz				
40°C DB / 20%RH					
Total cooling capacity (kW)	13.2	25.8	42.5	52.5	62.6
Sensible cooling capacity (kW)	13.2	25.8	42.5	52.5	62.6
Air volume (m3/h)	3000	5000	8500	10500	12000
Heating capacity (kW)	3	3	6	6	6
Humidification capacity (kg /h)	1.3	1.5	3	3	3
Connecting Pipe Size Specifications					
Liquid pipe (mm)	9.52	12.7	16	16	19
Air pipe (mm)	12.7	16	22	22	28
Width × Depth × Height (mm)	300×1200×2000	300×1200×2000	600×1200×2000	600×1200×2000	600×1200×2000
Weight (kg)	200	240	330	340	345
Maximum current FLA (A)	16.8	28.2	40	42.5	47.9
Cable size (mm2)	5 x 4	5 x 6	5 x 10	5 x 16	5 x 16

Outdoor Unit Parameters

Outdoor unit model	ERC16	ERC38	ERC55	ERC66	ERC78
Length (mm)	1076	1650	2010	2010	2700
Depth (mm)	380	1100	1100	1100	1100
Height (mm)	1334	1150	1150	1150	1150
Weight (kg)	60	158	196	210	256
Max Operating Current (A)	0.9	2.9	5.8	5.8	5.8
Cable specifications (mm2)	4 × 1.5	4 × 1.5	4 × 1.5	4 × 1.5	4 × 1.5

Operating Environment

Item	Require
Installation	Horizontal or vertical installation
Connection pipe length	Maximum equivalent length of the horizontal distance between indoor and outdoor unit connection pipes: 120m
Height	Maximum height difference between outdoor unit and indoor unit (positive height difference): 50m Maximum height difference between outdoor unit and indoor unit (negative drop): 10m
Indoor temperature	18°C~40°C
Outdoor temperature	-15°C~45°C
Humidity	20% RH ~60% RH
Outdoor Unit IP	IPX4
Altitude	< 1000m, more than 1000m, use with reduced rating
Operating Vol	Three-phase power supply: 380V (-15%~+15%);
Service life	More than 10 years

* The actual product shall prevail. The above specifications are subject to change without prior notice.

Cooling System--Room-Level Air-Con



COMPUTER ROOM AIR-CON

Features

- The cabinet appearance and color design are consistent with the IT room;
- Fully intelligent and precise control of constant temperature and humidity function;
- Designed for 365 days x 24 hours continuous and uninterrupted all-weather operation;
- Long life design, low operating and maintenance costs;
- Large air volume and small enthalpy difference design to meet the professional temperature control needs of the computer room;
- Standard high-efficiency backward-inclined centrifugal fan, low energy consumption, large air volume, long air supply distance, ensure best temperature and humidity level;
- Standard electronic expansion valve with high control accuracy and wide flow adjustment range;
- Environmentally friendly refrigerant R410A is standard;
- Ultra-wide grid adaptability, optional phase sequence fault tolerance function, power-on automatic start and delayed start functions;
- 4.3-inch true color full Chinese large touch screen, multi-level password authority, expert system self-diagnosis Function;
- Powerful EVO control system, control 32 sets of units, easy networking. Group control mode: Energy efficiency management, trend energy efficiency management, scheduled rotation, and automatic fault switching are required to achieve group adaptive energy saving;
- Rich system detection, alarm, and protection functions;
- Set parameter automatic protection to ensure that running parameters and alarm records are not lost after power failure;
- Stores 500 historical alarms;
- RS485 communication port;
- Ethernet interfaces are optional, and TCP/IP and SNMP protocols are supported;
- Provide standard communication protocols, monitoring protocols in special formats can be customized according to customer needs;
- Rich selection of functional components to meet a variety of special installation occasions and functional requirements.

ECM Series (6 kW ~ 20 kW) Indoor Unit Parameters



Indoor Model		1005	1008	1012	1016	1020
Main power supply		380V 3Ph - 50Hz	380V 3Ph - 50Hz	380V 3Ph - 50Hz	380V 3Ph - 50Hz	380V 3Ph - 50Hz
Air supply method		上/ 下	上/ 下	上/ 下	上/ 下	上/ 下
AC	Total cooling - kW	6.0	7.5	12.5	16.8	20.2
	Sensible cooling - kW	5.0	6.9	11.3	15.3	18.3
	Unit FLA -A (cooling only)	-	7.7	12.9	14.4	19.5
	Unit FLA-A (heating and humidifying type)	19.0	16.8	22.0	23.5	28.6
EC	Cooling capacity - kW	6.1	7.6	12.6	16.9	20.4
	Sensible cooling capacity - kW	5.1	7.0	11.5	15.5	18.5
	Unit FLA -A (cooling only)	14.8	8.1	13.0	17.6	21.5
	Unit FLA-A (heating and humidifying type)	19.3	17.2	22.1	26.6	30.6
Number of compressors		1	1	1	1	1
Number of fans		1	1	1	1	1
Circulation air volume-m3/h		1500	2300	2700	4500	5500
Heating capacity - kW		3.0	6.0	6.0	6.0	6.0
Humidification capacity - kg /h		2.8	2.8	2.8	6.0	6.0
Liquid pipe connection - mm 1)		9.52	9.52	12.7	12.7	12.7
Gas pipe connection - mm 1)		12.7	12.7	16	19	19
Unit drain pipe - ID , mm		19	19	19	19	19
Humidifier water inlet pipe (female thread)		G1/2"	G1/2"	G1/2"	G1/2"	G1/2"
Connecting Pipe Size Specifications						
Unit width- mm		600	600	600	750	750
Unit Depth - mm		555	555	555	755	755
Unit height - mm		1750	1750	1750	1950	1950
weight - kg		110	115	140	185	200

Outdoor Unit Parameters

Outdoor unit model	ECS1005	ECS1008	ECS1012	ECS1016	ECS1020
Unit Width - mm	800	800	800	1500	1500
Unit Depth - mm	360	360	360	360	360
Unit height - mm	790	790	1285	1285	1285
Weight - kg	40	40	60	90	100
Standard unit operating temperature range -°C	-15 ~ 45°C	-15 ~ 45°C	-15 ~ 45°C	-15 ~ 45°C	-15 ~ 45°C
Low temperature component operating temperature range -°C	-40 ~ 45°C	-40 ~ 45°C	-40 ~ 45°C	-40 ~ 45°C	-40 ~ 45°C
Recommended circuit breaker for the unit - A	32	32	32	40	40
Unit power line diameter - mm 2- single cooling type 2)	5*4	5*1.5	5*2.5	5*4	5*4
Unit power line diameter -mm2 - heating, humidification type 2)	5*4	5*4	5*6	5*6	5*6
Outdoor unit power wire diameter - mm 2	3*1.5	3*1.5	3*1.5	3*1.5	3*1.5

* The actual product shall prevail. The above specifications are subject to change without prior notice.

Product Introduction

With the development of the Internet and information technology, the amount of data processing and storage has continued to increase. This growth also leads to a continuous increase in the heat density of data centers, which brings different time. In response to this phenomenon, EVADA has launched a dedicated air conditioner for computer rooms. It consists of an indoor unit and an outdoor unit, with integrated DC inverter compressor, large-area evaporator, EC Fan, electronic expansion valve, variable frequency speed regulation owl condensing fan. Usually deployed in the computer room The system can be installed on the wall, with 100% frontal maintenance, providing customers with a complete The best cooling system solution during the life cycle.

Applications

Medium and large type exchange computer room and shift move computer room, computer calculate server room, internet data center(IDC), high-tech environments and laboratories, industrial control rooms and precision processing equipment, standards Testing rooms and calibration centers, UPS and battery rooms, biochemical culture rooms, hospitals and testing rooms.



Computer Room Air Conditioning

Features

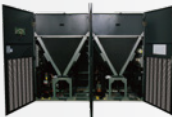
Flexible configuration

- Optional central condenser, room saving up to 60%
- The Silenced fan can reduce the noise by at least 5dB
- Modular assembly, phased construction
- Full frontal maintenance, support



Modular design, low load dehumidification

- Modular design, flexible disassembly,
- Large V/A coil design, land saving
- Electric control box pull-out design
- Variable coil capacity dehumidification
- Energy saving and high efficiency
- Low load dehumidification design



Frequency variable design

- DC frequency variable, dynamic cooling, reduce Opex
- Dc inverter compressor, soft start, reduce the impact on the PDS
- In indoor efficient EC fan, energy saving 20%-30%
- Double electronic expansion valve, wide adjustment range, reduce superheat, improve energy efficiency
- High return air temperature design, energy efficiency up to 20% ~ 30%



Cooling system

- 7 inch touch screen display.
- Visualized display of running status.
- Can be connected to multiple external temperature and humidity sensors.
- Advanced monitoring system, monitoring 32 units, easy networking.



Indoor Unit (ECM)		1030	1035	1040	1050	2055	2065	2070	2080	2090	2100	2120
Main Power		380V 3Ph 50Hz										
Air Inlet		U/D	U/D	U/D	U/D	U/D	U/D	U/D	U/D	U/D	U/D	U/D
Function Parameters												
24°C/50%	Colling (kW)	30.9	36.0	40.3	50.1	55.6	65.8	72.1	80.2	92.6	100.2	120.1
	Sensible Colling(kW)	27.9	32.6	36.4	45.3	50.2	59.3	64.9	72.7	83.6	90.6	108.0
35°C/27%	Colling (kW)	37.1	45.2	48.4	60.1	66.7	79.0	90.3	96.2	111.1	120.2	144.1
	Sensible Colling(kW)	37.1	45.2	48.4	60.1	66.7	79.0	90.3	96.2	111.1	120.2	144.1
Uniy FLA (A)		39.2	48.8	51.0	53.9	60.9	70.0	85.0	88.0	88.4	91.8	115.3
No of Compressor		1	1	1	1	2	2	2	2	2	2	2
Indoor Unit Parameter												
Circular air (m³/h)		9000	10000	11000	13000	14000	17000	18000	21500	23000	25000	32000
No. Of compressor		1	1	1	1	2	2	2	2	2	2	3
Heater Parameter												
Heater power (kW)		9	9	9	9	9	9	9	9	9	9	9
Humidifier Parameter												
Humidifier power (kg/h)		8	8	10	10	10	10	10	10	10	10	10
Indoor Terminal												
Liquid pipe (mm)		16	16	16	16	16	16	16	16	16	16	16
Air pipe (mm)		19	19	22	22	19	19	19	22	22	22	22
Water pipe (mm)		19	19	19	19	19	19	19	19	19	19	19
Huidifier pipe		G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2
Indoor Unit Size and Weight												
Width (mm)		900	900	1100	1100	1800	1800	1800	2200	2200	2200	2550
Deptch (mm)		995	995	995	995	995	995	995	995	995	995	995
Height (mm)		1965	1965	1965	1965	1965	1965	1965	1965	1965	1965	1965
Weight (kg)		310	330	415	430	580	600	620	660	670	680	820
Switch and Power Cable												
Indoor	Switch (A)	63	63	80	80	100	100	125	125	125	125	160
	Cable (mm2)	5*10	5*10	4*16+1*10	4*16+1*10	4*16+1*10	4*25+1*16	4*25+1*16	4*25+1*16	4*25+1*16	4*25+1*16	4*35+1*16
Outdoor	Cable (mm2)	5 x 1.5	5 x 1.5	5 x 1.5	5 x 1.5	5 x 1.5	5 x 1.5	5 x 1.5	5 x 2.5	5 x 2.5	5 x 2.5	5 x 2.5

Outdoor Unit Technical Parameters


Model	ECS32	ECS38	ECS46	ECS54	ECS66	ECS78	ECS86
Number of fans	1	1	1	1	2	2	2
L(mm)	1080	1087	1237	1237	1841	2132	2232
H(mm)	933	955	1039	1207	997	1039	1207
W(mm)	651	724	780	780	651	780	780
Weight (kg)	115	130	140	150	160	200	240
Liquid pipe(mm)	19	19	19	19	19	19	19
Air pipe (mm)	22	22	28	28	28	28	28


* The actual product shall prevail. The above specifications are subject to change without prior notice.


Product Introduction


The monitoring system has the characteristics of simple configuration, strong access, and high reliability. It can centrally manage all power, environment, and cooling equipment in the data center, integrate mainstream brand access control, video and other security systems, and distribute. It can collect data in a timely manner to meet the needs of multi-computer room networking monitoring and management, allowing data center operation and maintenance personnel to control the safety of computer room operations in real time.


Key Features


- 

Centralized Monitoring
Multi-room networking, power, environment, cooling, security and other equipment centralized access, unified real-time monitoring.
- 

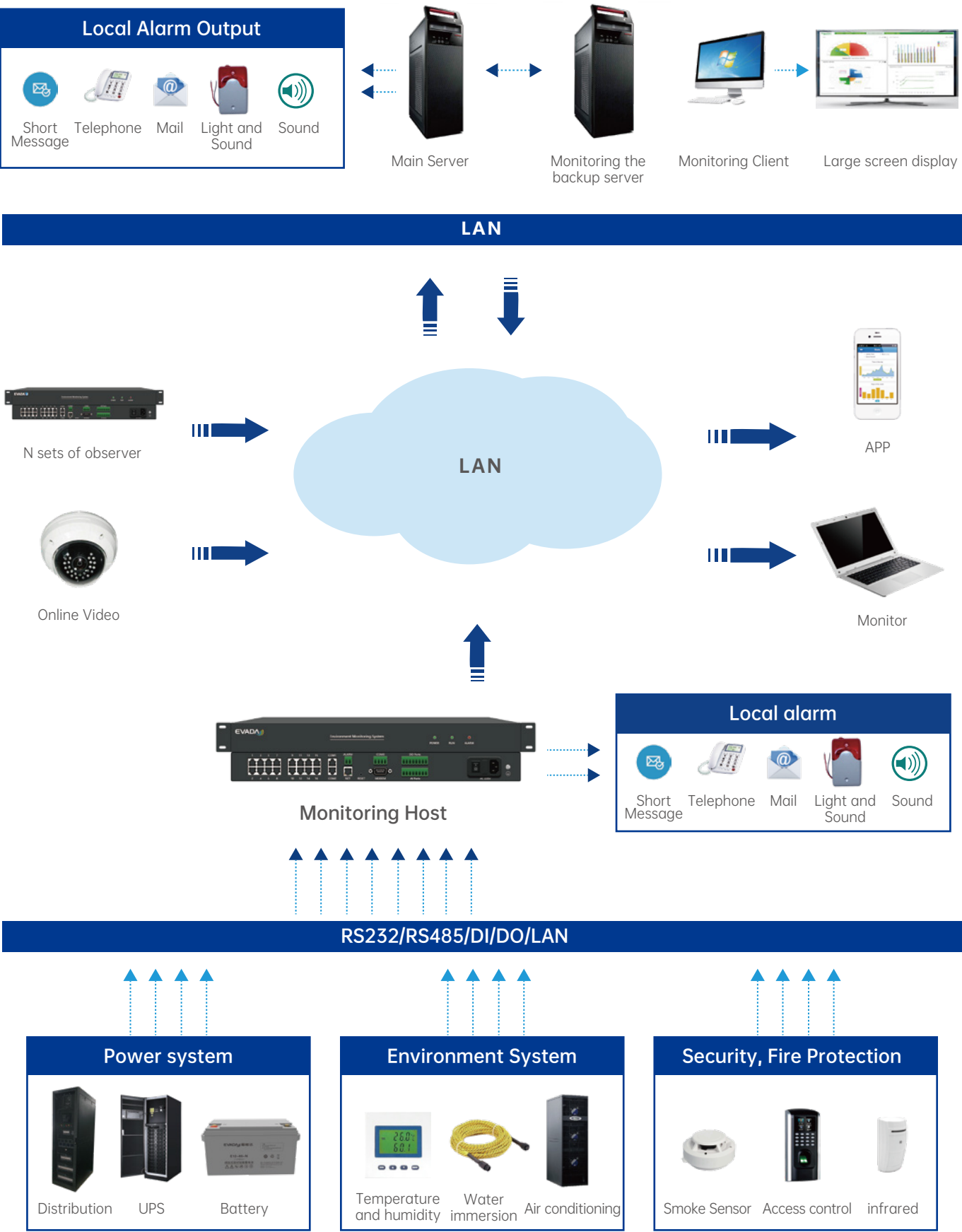
Remote Access
Supporting clients, browsers, and apps, users can access the system at any time and learn about the monitoring status of the computer room from any location.
- 

Fault warning
Multi-level flexible threshold strategies provide timely reminders before equipment failures occur, minimizing the occurrence of failures.
- 

Alarm Notification
Multi-channel alarm notification, flexible combination of audio and visual, SMS, phone, and email notification, hierarchical notification policy, so that O&M personnel know the fault in time.
- 

Energy Efficiency Statistics
Real-time statistics on energy consumption in the equipment room are converted into intuitive PUE value, allowing operation administrators to know the energy efficiency of the data center.
- 

Statement Analysis
Powerful report configuration capability, so that the operation and maintenance personnel can directly operate the tool of cyclone ce to make personalized analysis reports.



Recommended Solution 1

Dimension Merge

Recommended solution: UPS

Total Cabinet Power	1unit	3kW	<div>Available space 28U for loads</div> <div>Power distribution unit 4U</div> <div>3kVA UPS 2U</div> <div>Battery pack 3U</div> <div>Air conditioner 3.5kW 5U</div>
Built In Ups	1unit	3 ~ 6kVA	
Built In Rack Air Conditioner	1unit	Single cooling capacity3.5kW	
Rack Type Battery Pack	8 Pcs / 16 Pcs	14AH/7AH	
It Equipment Free Space	28U		
Advantage	1.Integrated design, covering an area of 0.72m2, saving room space.		
	2.UPS and battery pack are designed separately, correspondingly the backup time is easy to expand.		
	3.Rack air conditioner 5u design, high density, close to the heat source for cooling, zero loss of cooling capacity.		
	4.10 inch large touch screen design, friendly and convenient human-computer interaction.		
	5.Report summary of operation, health and operation in intelligent detection cabinet.		

Recommended solution: DPS scheme

Total Cabinet Power	1unit	3kW	<div>Available space 32u for loads</div> <div><div>Power distribution unit 4U</div><div>3kVA DPS 1U</div><div>Air conditioner 3.5kW 5U</div></div>
Built In Ups	1unit	DPS-3kVA ~ 6kVA	
Built In Rack Air Conditioner	1unit	Single cooling capacity3.5kW	
Rack Type Battery Pack	Lithium iron phosphate battery	10AH	
It Equipment Free Space	32U		
Advantage	<div>1.Integrated design, covering an area of 0.72m2, saving room space.</div> <div>2.The integrated design of distributed power supply maximizes the available space of IT equipment.</div> <div>3.Rack air conditioner 5u design, high density, close to the heat source for cooling, zero loss of cooling capacity.</div> <div>4.10 inch large screen touch screen design, friendly and convenient human-computer interaction.</div> <div>5.Report summary of operation, health and operation in intelligent detection cabinet.</div>		

Recommended Solution 2

Dimension Magic

Recommended solution: built in battery (Backup for 30 minutes)

Maximum number of it cabinets	8unit	Single cabinet (3 ~ 5kW)
Built in modular UPS	1unit	Capacity 60kVA
Built in battery cabinet	Flexible configuration according to customer needs	
Built in air conditioner	3unit	Single cooling capacity 12.5KW
Advantage	1.The integrated design of ups and power distribution reduces the floor occupied area by 50%. 2.The air conditioner between arrays is placed inside the cold tunnel, which is close to the heat source for cooling, with zero loss of cooling capacity. 3.Integrated monitoring, intelligent management, and the linkage control ensure personal and equipment safety. 4.Standardized components, standardized structure, can be quickly deployed on demand. The construction period can be shortened by more than 50%.	

Machine room area

UPS

Battery cabinet

IT cabinet

IT cabinet

A

IT cabinet

IT cabinet

A

IT cabinet

IT cabinet

A

IT cabinet

IT cabinet

Cooling tunnel

*A: Inter train air conditioning

Recommended solution: external battery

Maximum number of it cabinets	8unit	Single cabinet (3 ~ 5kW)
Built in modular UPS	1unit	capacity 60kVA
Built in battery cabinet	Flexible configuration according to customer needs	
Built in air conditioner	3unit	Single cooling capacity 12.5kW
Advantage	1.The integrated design of ups and power distribution reduces the floor occupied area by 50%. 2.The air conditioner between arrays is placed inside the cooling tunnel, close to the heat source for cooling, with zero loss of cooling capacity. 3.The battery pack is isolated from the machine room, enabling more flexible backup time and higher security. 4.Standardized components, standardized structure, can be quickly deployed on demand. The construction period can be shortened by more than 50%.	

Battery room

UPS

Integrated distribution cabinet

IT cabinet

IT cabinet

A

IT cabinet

IT cabinet

A

IT cabinet

IT cabinet

A

IT cabinet

IT cabinet

Cooling tunnel

*A: Inter train air conditioning

Machine room area

Recommended Solution 3

Dimension Meta (18 IT cabinets as an example)

Recommended solution: built in battery (Backup for 30 minutes)

IT cabinet	18unit	Single cabinet (3 ~ 5kW)
Built in modular UPS	1unit	Capacity 120kVA
Built in battery cabinet	Flexible configuration according to customer needs	
Built in inter train air conditioner	4unit	Single cooling capacity 25kW
Advantage	<div>1.Applying N + 1 / 2 design to ensure the system reliability.</div> <div>2.The air conditioner between arrays is placed inside the cooling tunnel, close to the heat source for cooling, with zero loss of cooling capacity.</div> <div>3.Integrated monitoring, intelligent management,and linkage control ensure personal and equipment safety.</div> <div>4.Standardized components, standardized structure, can be quickly deployed on demand. The construction period can be shortened by more than 50%.</div>	

*A: Inter train air conditioning 1: Precision distribution cabinet

Machine room area

Recommended Solution 4

Dimension Meta (19 IT cabinets as an example)

Recommended solution: external battery, ups and air conditioner

IT cabinet	19unit	Single cabinet (3 ~ 5kW)
External modular UPS	2unit	Capacity 120kVA
External battery cabinet	Flexible configuration according to customer needs	
External air conditioner	4unit	Single cooling capacity 50kW
Advantage	<div>1.Applying N + 1 / 2 design to ensure the system reliability.</div> <div>2.The strong current system is independent of the comprehensive room, the strong and weak current are separated, and the operation is more reliable.</div> <div>3.The battery pack is isolated from the machine room, with more flexible backup time and higher security.</div> <div>4.The air conditioner can be installed externally to reduce noise and vibration and adapt to ultra long installation</div>	

*B: Precision air conditioner 1: Precision distribution cabinet

Machine room

Comprehensive room

Recommended solution: external battery

IT cabinet	18unit	Single cabinet (3 ~ 5kW)
Built in modular UPS	1unit	Capacity 120kVA
Built in battery cabinet	Flexible configuration according to customer needs	
Built in inter train air conditioner	4unit	Single cooling capacity 25kW
Advantage	<div>1.Applying N + 1 / 2 to ensure the system reliability.</div> <div>2.The air conditioner between arrays is placed inside the cooling tunnel, close to the heat source for cooling, with zero loss of cooling capacity.</div> <div>3.The battery pack is isolated from the machine room, with more flexible backup time and higher security.</div> <div>4.Standardized components, standardized structure, can be quickly deployed on demand. The construction period can be shortened by more than 50%.</div>	

*A: Inter train air conditioning 1: Precision distribution cabinet

Machine room area

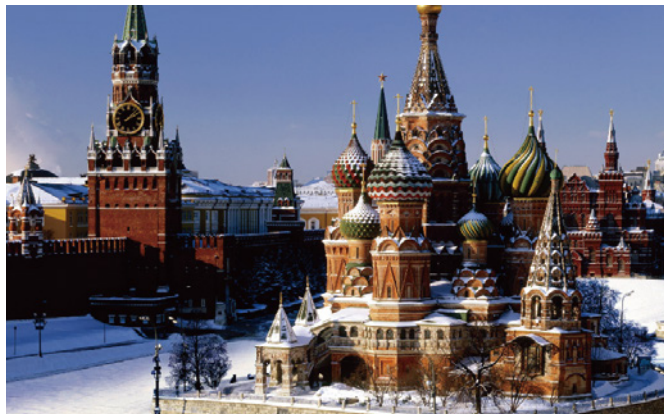
Recommended scheme: DPS power supply

IT cabinet	18unit	Single cabinet (3 ~ 5kW)
Distributed power system (DPS)	18unit	Capacity 6kVA
Built in lithium iron phosphate battery	15AH	System backup time: 30 minutes
Built in inter train air conditioner	4unit	Single cooling capacity 25kW
Advantage	<div>1.DPS is used for power supply. DPS occupies 4U / 6U space of the cabinet, saving room space and solving the problem of floor weight-bearing.</div> <div>2.DPS has a built-in lithium iron phosphate battery, which saves more than 50% of the battery space.</div> <div>3.DPS is simple to deploy and can be deployed on demand in stages, with great flexibility.</div> <div>4.The air conditioner between arrays is placed inside the cooling tunnel, close to the heat source for cooling, with zero loss of cooling capacity.</div> <div>5.Unified monitoring, intelligent management, through linkage control to ensure personal and equipment safety.</div>	

*A: Inter train air conditioning 1: Precision distribution cabinet

Machine room

Project Reference



Russian National Computing Infrastructure

EVADA provides several set of Dimension Meta Modular Data Center solutions for the national computing infrastructure in Russia. It provides stable power supply for data centers and and computing equipment.

Project Reference



Xiamen Minnan Opera Art Center

EVADA provided Dimension for this project Meta Series Modular Data Center Solutions The solution meets the needs of the Minnan Opera Art Center to save pictures and video files and digital ticketing, etc., to ensure the availability of data center power supply Depends on supply.

Indonesian Reputable Campus Library Server

EVADA provides Dimension Merge Modular Data Center solution for one of the well-know university. It serves as the campus's library server. It provides reliable, cost efficiency and green solution for the campus to keep their member data, book information and many other important literature data. Instead of sparing one room for the library server, now the campus just simply install the Merge server cabinet inside the library.



Shenyang Intelligent Network Computing Power Center

Shenyang Intelligent Network Cloud Control Basic Platform Project is an intelligent vehicle infrastructure project in Liaoning Province. The core of the system provides data interconnection and common basic services to the industry. It is the core of intelligent network connection. The core starting point for the construction of automobile pilot areas. In order to ensure the safe and stable operation of the system, EVADA addresses the pain points of the data center infrastructure. After an in-depth analysis of the difficulties, a customized Dimension Meta series of modular data was provided. Based on the center's solutions, we win unanimous recognition from customers and achieve cooperation.



Meitu's New Headquarters Building Computer Room

Meitu is a technology company with beauty as its core and artificial intelligence as its driving force. The total number of active users has reached 243 million. EVADA provides the Meifeng Chuanggu computer room in Meitu's new headquarters building. 2 sets of "Dimension Meta" double-row cold channel and supporting UPS and battery pack solutions, One-stop solution to data center deployment problems.



State Grid Heilongjiang Modular Computer Room Project

Aiding the informatization of the State Grid centralized control station room, EVADA technical team focused on the State Grid Heihe centralized control The station micro-module room project provides the "Meta" series double-row cold channel modular room solution. Provide customers with a new type of data center with rapid deployment, high efficiency and energy saving, compact space and flexible expansion While greatly saving room space and construction costs, it effectively meets the needs of data centers. The requirements for high efficiency, reliability, speed, flexibility and intelligent management.

More Project Reference

Heilongjiang Centralized Control Station	Xiamen Botanical Garden Center Server Room Renovation Project
Modular Server Room Solution Huadu New	Shaanxi Electric Power Information Server Room
Library Information Management Solution	Heilongjiang Economic Management Cadre Institute Data
Xiamen Minnan Art Opera	Hunan Miluo Maternal And Child Intelligent Server Room

Suzhou Shiming technology double row cabinet project	...
Xinjiang Yiwuhu Yanglin scenic area information server room project	
Xiamen Hongfa Co., LTD	

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