ACSON DATA CENTER INFRASTRUCTURE

iBlock Series BM Smart Modular Data Center Solution

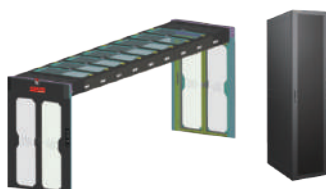# iBlock Series BM
Smart Modular Data Centre Product Components

Environmental control system

In-row Air Conditioner | Waterlogging | Temperature and Humidity | Outdoor Condenser

Cabinet and airflow management system

Skylight controller

Temperature and Humidity | Fire Control

Safety management system

UPS (Uninterrupted Power System)

UPS | Distribution Cabinet | Accumulator

UPS (Uninterrupted Power System)

iMonitor Monitoring and Management System

Environmental Control System

- Features a typical 7-inch true colour touch screen with an intuitive user interface.

- Enabling for the integrated operation of all air conditioners in the module as a single system through group control of numerous units.

- It is equipped with a range of refrigeration systems, such as chilled water in-row, water cooled in-row and air cooled in-row.

Power Supply and Distribution System

- The precision array cabinet may measure things like bus bar temperature, power, voltage, and current. It has an intelligent communication interface and can be connected to the system for controlling power and etc.

- For the precision array cabinet, a hot-plug branch switch with phase modulation functionality can be chosen. It makes it easier to phase modulate locally and accomplish three-phase load balancing.

- There is an optional smart busway solution that features quick installation, scalability, space savings, intelligent monitoring, etc.

UPS (Uninterrupted Power System)

- The single cabinet is available as a modular model with scalable capacity, and its capacity ranges from 15 to 300 KV.

- Applicable to the latest servers, power factor > 0.98.

- Provide accumulator and battery monitoring.

iMonitor Monitoring and Management System

- Touch screen in colour, 21.5 inches.

- Detailed real-time management of the UPS, air conditioner, temperature, humidity, smoke detector, door status, water leak, access control, video monitoring, fire-fighting components, etc. is provided.

- SMS, mobile APPs, etc. can be used to perform basic operation and maintenance management.

Cabinet and Airflow Management System

- **Cabinet:** capable to withstand earthquakes with a grade 9 seismic intensity and has a high through-hole rate.

- **Airflow management:** The reversible, transparent skylight can be used in conjunction with firefighting since it is constructed of transparent materials. The skylight can be used in low floor height situations and supports low floor height design.

- End doors of enclosed aisles come standard with an outward opening door or a manual sliding door, with an automatic sliding door available as an option.

- **Power:** continuously track changes in the load on iBlock and support colour conversion.

- **Temperature:** continually track the iBlock temperature change and support colour conversion.

Technical Specification

iBlock Series BM Smart Modular Data Center

Items	iBlock series BM Modular data center solution
Aisle containment method	Cold aisle containment/hot aisle containment/cold and hot aisles containment can be selected
Reliability grade	C/B/A or Tier II/Tier III/Tier IV
Altitude	0-4000m (over 1000m needs to be derated)
Environmental control system	
Air-cooled/chilled water in-row air conditioner cooling capacity	40kW/25kW (for higher air-conditioning capacity and more air-conditioning models, please consult Acson Malaysia)
Indoor unit dimensions	2000mm×1200mm×600mm/2000mm×1200mm×300mm (For other heights, please contact consult Acson Malaysia)
Input power	380Vac, 50Hz/60Hz, 3ph+N+PE
Outdoor unit	Conventional outdoor unit is used between air-cooled rows, and centralized condenser can be selected
Cabinet and airflow management system	
End door	Double outward opening door/double track door/double electric door (optional)
Power column	Four-color conversion, real-time display of power in the micromodule (optional)
Temperature column	Four-color conversion, real-time display of the temperature in the micromodule (optional)
Functional skylight	Allow to install smoke sensor, temperature and humidity sensor, camera, etc.
Reversible skylight	Sheet metal inlaid with tempered glass, reversible
Ambient light	Two-color ambient lights, real-time status management in micromodule, sleep setting (optional)
Cabinet dimensions	- 2000mm×1200mm×600/800mm - 2000mm×1100mm×600/800mm - 2200mm×1200mm×600/800mm - 2200mm×1100mm×600/800mm
Cabinet space available	42U/47U
Cabinet IP grade	IP20
Power distribution system	
Precision array cabinet input voltage	380V/400/415Vac, 50Hz/60Hz, 3ph+N+PE
Precision array cabinet rated capacity	400/320/250/160A (single input and dual input options)
Precision array cabinet AC lightning protection	20kA, 8/20μs
Precision array cabinet rated output	32A single-phase and three-phase options
PDU rated capacity	32A
PDU output system	IEC socket PDU air-switch supports hot swap (optional) and smart PDU (optional)
UPS (Uninterrupted Power System)	
Rated capacity	15~800KVA
Input voltage	380V/400/415Vac, 50Hz/60Hz, 3ph+N+PE
Output power factors	1
Overall efficiency	≥96%
AC lightning protection	20kA, 8/20μs
Integrated wiring system	
Wireway	Cabling trough on the top of the cabinet, which supports the separation of strong and weak current cabling
Inter-row cabling ladder	In-row cabling ladder, which is used to meet the cabling requirements between two rows of cabinets
Safety management system	
Camera	2M camera in the aisle
Access control	Password + card swiping access control/Password + card swiping + fingerprint access control
iMonitor monitoring management system	
Display interface	14-inch color touch screen, 21-inch color touch screen (optional)
Monitoring scope	Temperature and humidity, smoke detector, air conditioner, UPS, precision array cabinet (smart busway), water leakage, video, access control, etc.
Optional	SMS component/mobile APP/voice alarm/asset management

Notes:
1. All specification are subjected to change by the manufacturer without prior notice.
2. All of these items can be customized with different application. Kindly consult Acson Malaysia for more information.

ACSON International Air Conditioners

Authorized Dealer :

CAT-APBM-2301

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