

**NEUROPOWER**

Powering Possibilities. Connecting Futures.



- Modular Data Center Solution (MDCS)
- **FlexiBlock Series**

# FlexiBlock

Neuropower Malaysia introduces the FlexiBlock Series, a comprehensive modular data center solution consisting of two models: *FlexiBlock* and *FlexiBlock Pro*.

The *FlexiBlock* model offers an intelligent integration cabinet solution for network equipment, integrating power supply and distribution, cabinets, and monitoring systems into a single cabinet. This modular design optimizes space utilization, allowing for flexible expansion. Each unit component of the system is prefabricated and factory-debugged, enabling rapid on-site deployment.

In response to the growing demand for digitized information processing and response, Neuropower Malaysia presents the *FlexiBlock Pro* row-level micromodule data center. This advanced solution integrates power distribution, refrigeration, UPS, batteries, cabinets, and airflow management, along with monitoring and management facilities, into sub-module systems.

The *FlexiBlock Pro* serves as a row-level rack-type modular data center, providing an ideal solution for small and medium data centers. It simplifies construction complexity, addressing various challenges faced by users, including specialization, standardization, construction speed, and scalability.

Furthermore, the *FlexiBlock Pro* data center meets integration requirements, enabling fast deployment with minimal engineering, intelligent maintenance, and cost savings. It offers customized product solutions aligned with the A, B, or C grade standards of the Chinese standard GB50174, making it a reliable choice for data center construction and deployment.



**LOGISTICS**



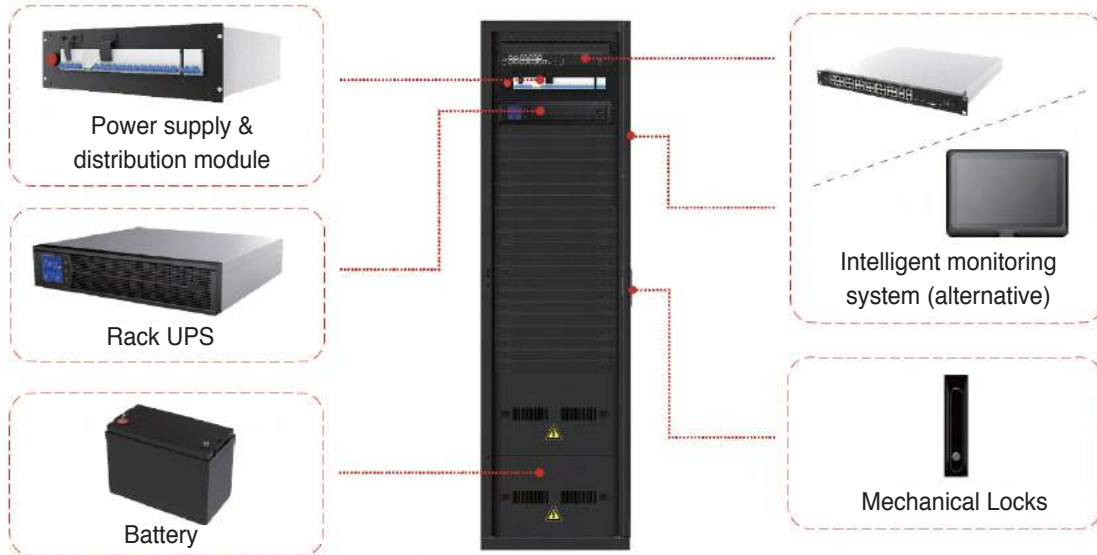
**GOVERNMENT**



**HOSPITAL**

# FlexiBlock Features

Introducing the FlexiBlock Series by Neuropower Malaysia, a modular data center solution designed for rapid deployment and flexible scalability.



- ## Efficient On-Site Deployment: Accelerating Data Center Setup

Its modular design allows for flexible configuration and rapid capacity expansion as per requirements. The data center also features real-time monitoring of essential equipment, providing a comprehensive view of key information. The local 10-inch large screen, along with remote WEB and SMS capabilities, enable flexible operations and maintenance, ensuring enhanced status awareness.

# Technical Specifications (FlexiBlock)

Specification	Model	FlexiBlock
Specification	Cabinet quantity	1
	Door lock	Mechanical locks
	Dimension, W x D x H (mm)	600 x 1000 x 2000
Power Distribution System	Mains input	1 x main supply, 1 x generator or secondary power supply, class C lightning protection
	UPS capacity	3kVA/6kVA (optional)
	Battery deployment mode	Internal battery cabinet (standard), external battery cabinet (optional)
	Main input distribution	Mains 50A/1P*1 + diesel engine 50A/1P*1; Mains and diesel engine support mechanical interlock
	UPS distribution	Input 50A/1P*1, maintenance bypass 50A/2P*1, output 32A/1P*1
	IT power distribution branch	32A/1P*1+ 16A/1P*3
	Mains distribution branch	32A/1P*1+ 16A/1P*3
	Power distribution monitor configuration	Supports mains power distribution monitor
	Power module height	3U
	PDU	A32G8G2(16A)G2(five holes)
Monitor System	Access method	Supports remote WEB access
	Local interface	10 inches touch screen (optional)
	Environment monitor	Temperature and humidity, smoke, water leakage
	Alarm	SMS alarms, audible and visual alarms, email alarms
Optional	Optional	IT cabinet, 1U sealing plate, cable tray, laminate, guide rail, M-shaped cable trough, battery monitoring unit, SMS module

● Product specifications are subject to change without further notice



# FlexiBlock Pro Features

Learn how the FlexiBlock Pro Series rack-type micro data center revolutionizes the concept of all-in-one computer room construction by embracing rack-level modular data centers.



FlexiBlock Pro 1 cabinet solution



FlexiBlock Pro 2 cabinets solution

## Efficient Data Center Solutions: Integrating, Deploying, and Maintaining with Ease

FlexiBlock Pro integrates all components, except servers and applications, allowing for modularization and factory pre-installation. This comprehensive solution ensures a secure and reliable operating environment for customer IT equipment, while offering a range of tailored solutions to accommodate diverse scenarios, enabling fast delivery, streamlined management, and flexible deployment.



FlexiBlock Pro 3 cabinets solution



FlexiBlock Pro 4 cabinets solution



### 1. Effortless Construction: Seamless Integration, Streamlined Delivery, and Quick Installation.

All subsystems are factory prefabricated and conveniently installed within the cabinet, allowing for hassle-free setup completed in just a day upon equipment arrival.

### 2. Seamless Scalability: Simplified Expansion with Standardized Modules.

Our solution incorporates standardized modules, allowing for flexible deployment of subsystem capacity and cabinet numbers to accommodate your present and future business requirements. This enables seamless scaling through a variety of solutions, ensuring adaptability and growth for your organization.

### 3. Comprehensive Integration: A Single Cabinet that Combines Seven Essential Systems.

Our all-in-one cabinet seamlessly integrates loading and aisle management, uninterrupted power supply, power distribution management, environmental management, safety management, monitoring management, and lighting visualization. With this integrated design, the cabinet serves as a fully functional data center, providing all the necessary features in one compact solution.

### 4. Space-Efficient Solution: Minimal Footprint, Maximum Impact.

With just 0.7 m<sup>2</sup> of floor space required per cabinet, our solution eliminates the need for a dedicated computer room. The cabinet, serving as a data center in itself, offers a sleek and streamlined appearance, providing a simple and aesthetically pleasing solution for your infrastructure needs.

### 5. Dustproof and Noise-Reducing Solution.

Enhanced Protection and Serene Environment. Our cabinet features a fully enclosed design with an IP5X protection grade, ensuring resilience in harsh environments. The rack-type air conditioner is equipped with an adjustable indoor fan and an outdoor unit-equipped compressor, reducing cabinet noise levels to as low as 45dBA. This creates a conducive environment for both man and machine, promoting a harmonious coexistence.

### 6. Secure and Dependable: Enhanced Safety Measures.

Our solution is equipped with an emergency ventilation device, an intelligent color-changing light strip, an acousto-optic alarm, and the option for a fire protection unit. These features work in unison to ensure the cabinet's safe, reliable, and stable operation, providing you with peace of mind and uninterrupted performance.

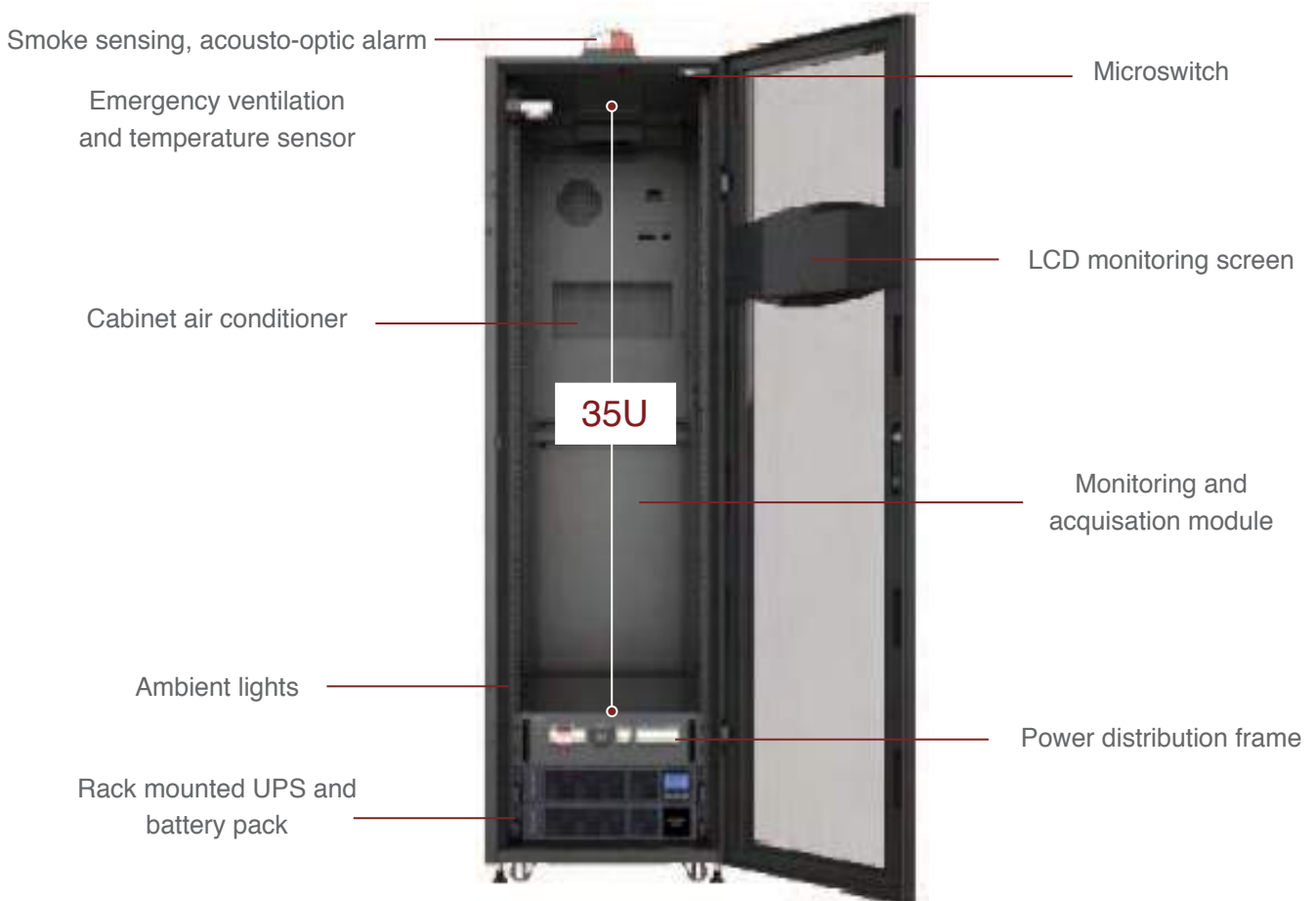
## 7. Energy-Efficient and Environmentally-Friendly: Optimal Cooling and Green Practices.

Our solution incorporates an EC VRV air conditioner, which not only ensures dynamic cooling but also utilizes the environmentally-friendly refrigerant R410A. Additionally, our high-efficiency UPS minimizes energy consumption. With a fully enclosed design, there's no need to address atmospheric environment heat load concerns. Moreover, our solution boasts an impressive Power Usage Effectiveness (PUE) as low as 1.34, promoting energy efficiency and reducing environmental impact.

## 8. Smart and User-Friendly Management: Advanced Monitoring and Remote Accessibility.

Our solution features a 7-inch large touch screen monitoring platform, ensuring an intuitive and user-friendly human-machine interaction. With a quick glance, users can effortlessly grasp the cabinet's status. The solution supports both local and remote management, allowing convenient access to real-time information. Additionally, users have the option to utilize a mobile app and receive SMS alarms, providing continuous monitoring and easy maintenance.

# Product Configuration




# Technical Specifications (FlexiBlock Pro)

	Model	FlexiBlock Pro				
	<b>Power Distribution System</b>	UPS capacity (kVA)	3	3	6	10
Power distribution capacity (A)		80	80	80	80	80
Voltage system		220V 50Hz				
Lightning protection		Class C lightning protection				
PDU		Vertical installation 24 port socket				
<b>Cabinet System</b>	Single cabinet dimensions, W x D x H (mm)	600*1200*2000				
	Cabinet front/back door	Glass door in front, sheet metal door at back				
	Aisle enclosure mode	Fully enclosed, with isolated cold and hot aisles				
	Dustproof class	IP5X				
	Auxiliary materials	Blind plates, L-shaped guide rails, lighting, etc.				
	No. of auxiliary cabinets available for selection	1	No: 1-3			
Space available	35U	32U (main cabinet) + N*42U (w/o battery packs)			34U (w/o battery packs)	
<b>Air Conditioning System</b>	Cooling capacity (kW)	2	3.5 (rack type, can be adjusted between 0.9- 3.5kW)			
	Height	0	5U			
	Number of air conditioners available for selection	1	2*3.5kW (can be selected for installation for over two cabinets)			
<b>Monitoring System</b>	Display	7 inch colour touch screen (optional 10.1 inch screen)				
	Monitoring scope	UPS, air conditioners, environmental factors, access control, water leakage, etc.				
	Optional	SMS component / mobile app / web				
<b>Safety System</b>	Ventilation system	Emergency ventilation components				
	Warning system	Ambient lights				
	Smoke sensing system	Smoke sensing acousto-optic alarm				
	Optional fire protection system	Fire fighting subrack units				
<b>Battery System</b>	Battery pack specification	96V 9AH or 72V 9AH		240V 9AH		-
	Height	2U		3U		-
	Single battery pack power distribution time	5 minutes @2.4kW		6 minutes @5.4kW		-
		10 minutes @1.2kW		12 minutes @2.7kW		-
	Quantity available for selection	1	Up to 4 battery packs			

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