RACKS, POWER DISTRIBUTION & MICRO DATA CENTRE SOLUTIONS

A practical portfolio for secure, organised and dependable IT infrastructure.







SERVER & NETWORK RACKS | **RACK PDUs** | **MICRO DATA CENTRES**

HYUNENERGY

Smarter. Greener. Powering Sustainability.

A complete infrastructure portfolio

Hyunenergy presents a practical range of enclosure, rack power distribution and micro data centre solutions for IT, networking, office and industrial environments. The portfolio helps customers organise equipment, distribute power and protect critical IT infrastructure.



Racks & Enclosures

Secure housing for servers, switches, networking and other IT equipment.



Rack Power Distribution

Basic and intelligent rack PDUs to distribute power within IT cabinets.



Micro Data Centres

Integrated, compact infrastructure solutions for selected office, commercial and industrial environments.

Typical applications

- Enterprise server rooms and data centres
- Network rooms, IT closets and branch offices
- Retail, banking and commercial locations
- Warehouses, manufacturing floors and remote sites

Solutions can be configured around rack size, equipment load, power requirements, outlet type and monitoring needs. Final selection should be confirmed against the site and equipment specifications.

01 | IT racks & enclosures

A rack is an enclosure designed to hold IT equipment such as servers, switches and networking devices. A standard rack assembly may include the frame, front and rear doors, side panels, 19-inch mounting rails, top and bottom covers, earthing kit and mounting hardware.

Server & IT rack options



Closed server rack

Available heights: 24U, 42U, 45U and 48U. Width options include 600mm and 750mm; depths include 1070mm and 1200mm. Tool-less accessory channel and half-height side panels are listed in the source portfolio. Equipment load rating: up to 1,700kg.



Flexible server rack

42U and 48U options; 600mm or 800mm width; 1000mm, 1100mm or 1200mm depth. Tool-less zero-U accessory channel, lockable half-height side panels and 1,200kg equipment load rating.



High-capacity cabinet

42U, 45U and 48U options, with custom height options up to 48U. 600mm or 800mm width; 1000mm or 1200mm depth. Internally lockable side panels and 1,000kg equipment load rating.



Custom cabinet

24U, 36U, 42U and 45U options. 600mm or 800mm width; 800mm, 1000mm or 1200mm depth. Extruded aluminium profile and equipment load rating of 850kg. Door options and CKD/SKD or assembled supply are listed.

Selection tip: Confirm rack height (U), width, depth, equipment weight, door/perforation preference, cable entry and accessories before finalising the configuration.

02 | Network & specialist racks

A range of compact and open-frame formats is available for network distribution, AV equipment and cable-management applications.



Wall-mount racks

6U, 9U, 12U and 15U options; 550mm or 600mm width; 500mm or 600mm depth. Single- and double-section formats, with top and bottom cable entry. Listed load ratings: 40kg for single section and 20kg for double section.



Table / compact racks

9U, 12U, 15U and 18U heights; 600mm width; 800mm or 1000mm depth. Rigid-frame construction and equipment load rating of 100kg. Intended for AV applications.



Open-frame racks

Two-post and four-post/open-frame formats support accessible equipment mounting and cable routing. The source portfolio lists a 45U bay rack with 6-inch, 8-inch and 12-inch cable-management options and a 500kg load rating.

Cable management

- Cable fingers and management channels help route cables neatly.
- Zero-U PDU mounting provision is listed for the open-frame configuration.
- Choose a format based on available floor or wall space, equipment depth and cable entry direction.

Final rack configuration should be checked against the actual equipment dimensions, total load and site conditions.

03 | Rack power distribution (rPDU)

Rack PDUs distribute electrical power to equipment installed inside an IT cabinet. The portfolio covers basic and intelligent options, with different levels of metering, switching and outlet-level control.

Basic PDU	Straightforward power distribution to rack-mounted equipment.
Metered PDU	Power monitoring at the PDU level to help track rack power usage.
Switched PDU	Remote outlet control, power sequencing and grouping functions, as supported by the selected model.
Metered-by-outlet (MBO)	Outlet-level power metering for more detailed visibility.
MBO + switched	Combines outlet-level metering with remote outlet switching, where offered.

Intelligent PDU capabilities

• Remote outlet control, power sequencing and grouping on supported models.
• Metering accuracy and outlet count vary by series and model.
• Some series list network connectivity, network cascading and dual network ports.
• Environmental monitoring connectivity is available on selected models.
• Options include basic, metered, switched and outlet-metered configurations.

Information to confirm before selection

• Connected load in kW and supply voltage / phase
• Number and type of outlets required
• PDU form factor and mounting position
• Metering, remote switching and monitoring requirements

Exact electrical ratings, socket combinations, plug types and regional derating must be confirmed from the selected model datasheet before ordering.

04 | Micro Data Centres

A Micro Data Centre (MDC) brings key IT infrastructure elements together in a compact, integrated enclosure. Depending on the selected configuration, the solution can combine rack space, cooling, power, monitoring and security features.

Choose the environment

R-Series	Industrial and harsh environments; exposure to dust, moisture, traffic or machinery.	Warehouses, manufacturing floors, remote sites and cell towers.
C-Series	Commercial and office environments; occupied spaces and semi climate-controlled locations.	Retail stores, branch offices, airports and banks.
S-Series	IT environments with purpose-built, climate-controlled and secure spaces.	Network closets and small server rooms.



R-Series | Industrial MDC

Pre-integrated, self-contained IP54 enclosure concept for IT and connectivity equipment in industrial and commercial environments. The source portfolio describes integrated cooling and power panel options, standard 19-inch rack profiles, indoor floor-mount installation and plug-and-play deployment. Listed configurations include 15U, 24U and 42U options with different cooling capacities.

R-Series highlights

- IP54 sealed design intended to help protect equipment from dust and water hazards.
- Cooling and power integration options.
- Expandable power and monitoring systems.
- Optional security features, access alerts, environmental alarms and camera.
- Optional environmental monitoring and remote management capabilities.

The source portfolio lists an operating noise tolerance of up to 65dBA for the described configurations. Confirm exact model specifications and site suitability.

05 | Compact & office MDC solutions



C-Series | 6U wall-mount MDC

Compact, low-profile 6U enclosure designed for wall mounting where floor space is limited. The source portfolio lists support for equipment up to 30 inches (762mm) deep and a 250lb (113kg) load capacity. Features include a dust filter and integrated fans. Compatibility with Smart-UPS VRLA and lithium-ion systems is noted in the source material.



C-Series | 43U MDC

A larger Micro Data Centre configuration with 43U overall height and 36U/34U usable space as stated in the source portfolio. Listed features include cable management, an advanced power panel, intelligent economizer cooling, touchscreen HMI, local and remote monitoring, managed services, keycard access and fire detection and suppression options.

MDC planning checklist

- Available floor or wall space and access clearances
- IT equipment quantity, depth, weight and heat load
- Cooling capacity and ambient operating conditions
- Power input, distribution and backup requirements
- Monitoring, physical access and fire protection requirements

MDC solutions should be engineered and validated for the actual room, ambient conditions, equipment heat load and electrical design. Feature availability varies by configuration.

06 | Let’s configure your solution

A few site and equipment details help us recommend the right rack, PDU or Micro Data Centre configuration.

• Server or network application • Required rack height (U) • Width and depth • Equipment weight • Accessories and cable entry	• PDU type and mounting position • Connected load in kW • Number and type of outlets • Metering / switching needs • Monitoring requirements	• Site environment and location • Equipment count and heat load • Space and cooling conditions • Power and backup needs • Security and monitoring needs

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