

SmartCabinet™

Intelligent, Integrated Infrastructure Solution in an Enclosure

Features and Benefits

- **Fully integrated** - factory assembled and tested for power, thermal management, rack enclosure, power distribution, monitoring and management, and security for IT applications. No dedicated IT room is required.
- **Dust protection and noise insulation**
Fully closed operation, cold/hot air is circulated within the rack for better temperature and humidity control, expanding lifespan of IT equipment, low noise level. Highly suitable for office environment.
- **Highly Efficient** - Built-in high efficiency UPS and cooling equipment, that uses DC frequency conversion technology for energy savings.
- **User-friendly interface** - Large 7-inch LCD touch panel that allows for easy access to system status/alarms/ setting.
- **Fast deployment** – SmartCabinet™ provides faster deployment and is ready to use from day one, removing the need to build, construct and design computer rooms which dramatically reduces the required deployment period compared to a traditional IT facility build.
- **Central Management** – optional feature of RDU-M that provides central management of SmartCabinet™ at multiple sites.

Applications:

- Branch offices, retail stores, small & medium sized business offices, and telecommunication sites
- Branch locations for government, educational institutions, healthcare, finance, business process outsourcing firms
- Warehouse or mobile sites, where computer/networking room is unavailable
- Manufacturing sites for automation control

SmartCabinet™ is a new approach to providing a complete IT infrastructure solution that contains power, thermal management, enclosure, power distribution, monitoring and infrastructure management all in a simple packaged solution. It is a fully integrated, industry-leading plug-and-play solution with a ready to use IT rack space. It eliminates the need to build complex computer rooms which dramatically improves the speed of system deployment compared to the traditional approach. SmartCabinet™ is pre-configured, pre-installed, and factory tested to ensure system compatibility and is ready to use from day one.




EMERSON™
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SmartCabinet™ Infrastructure Management Solution



Facility Management



- 1 LED Lighting**
Low power consumption LED lights that automatically light up when door is opened.



- 2 Power Management Unit**
Built-in Power Management Unit (PMU) provides MCB to UPS, Cooling unit, PDU, and bypass. It also provides surge protection to SmartCabinet™.



- 3 Power Distribution**
Outlet switched Power Distribution Unit (PDU) distribute power to IT equipment and turn on emergency fans during power outages.



- 4 Touch Panel LCD Display**
User-friendly display provide easy access to information for power, thermal management, environments, and security



- 5 Airflow Management**
Separate cold air and hot air channels to prevent hot exhaust air from circulating to the front of the cabinet.



- 6 Temperature / Door Access sensors**
Temperature sensors at front (cold aisle) and at rear (hot aisle) report critical environmental information and alarm users if exceeding configurable threshold. The door access sensors at front/rear report alarms on unauthorized access.



- 7 Central Management and Monitoring**
Provides central management of SmartCabinet™ by monitoring power, thermal, environments, security, and providing user interface thru touch panel LCD display.



- 8 UPS and Batteries**
5KVA On-line double conversion UPS and battery cabinet ensures clean power feeding to critical IT equipment. It also provides backup power to emergency fans during power outages.



- 9 Thermal Management (In-Rack Cooling Unit and Outdoor Condensing Unit)**
The thermal unit provides up to 3KW cooling capacity directly to IT equipment. Since SmartCabinet™ is fully sealed, the cool air will only use to cool down critical IT equipment with the highest efficiency. An outdoor unit is included to eject the heat outdoor. Two emergency fans automatically run during power outages ensuring continuous cooling capability.



- 10 Water Leak Detection**
Water leak sensor provides additional security for critical IT equipment.

Optional: IT Management



- 12 Rack Server Access**
Provide at-the-rack access to servers, making software upgrades, troubleshooting and system monitoring convenient and less time consuming.



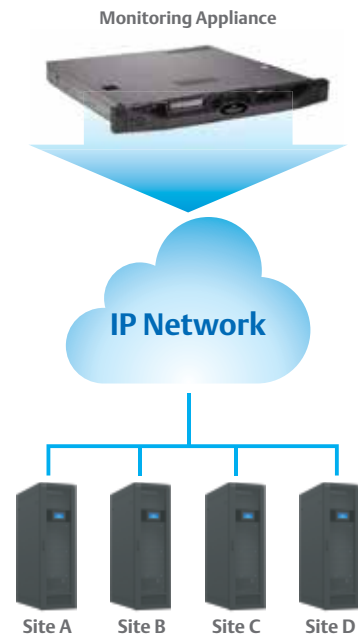
- 13 Remote Server and Serial Management**
Providing secure and remote out-of-band connections to the servers and serial ports. This unified approach enables IT administrators a faster method to diagnose, configure or restore equipment to meet SLAs and minimize downtime.

Interactive Touch LCD Panel



Large touch panel LCD display provides easy access to all information about power, thermal management, environment, alarms, and settings.

Optional: Centralized Management to all SmartCabinet™ using Rack Data Unit Manager



Traditional Room vs. SmartCabinet™

	Traditional Room	SmartCabinet™
Room preparation	Required and complex	Not required
Design and construction	Multi-vendor Time-consuming Multiple issues	Factory designed and pre-configured
Cost of preparation	High	Low
Power distribution	Requires wall-mounted DB box Costly	Built-in system Surge suppression included
Site preparation period	2-3 weeks	1 day
Aesthetic	Different design, color, sizes, etc.	Integrated design
Area required	10 - 20 sqm	0.7 - 2 sqm
Dust protection	Usually not available, High cost	Fully enclosed system, IP5X high protection
Noise level	Cooling/UPS equipment may go as high as 65dB Not suitable in office environment	Fully enclosed system, Suitable for office environment <50dB
Monitoring system	Individual systems Low capability Low integration	Fully Integrated system Factory Installed / Connected / Tested
User interface	Different interfaces for different equipment	One integration system for all equipment
Post-sales support	Multi-vendors Poor technical support	Single vendor provides full support
Relocation cost	High Difficult	Low Easy
Pre-assembled	Not possible	Yes
Pre-connected	Not possible	Yes
Factory tested	Not possible	Yes

Technical Specifications

Rack Size	2000 mm (42U) x 600 mm x 1200 mm
Useable U space	29U
Air Flow Management Panel	5U x 3, 2U x 3, 1U x 2
Maximum depth of equipment	1023 mm
Vertical Cable Management Panel	2
Area	0.6m x 1.2m = 0.72 m ²
Color	RAL7021 Black
IP Marking	IP5X
Display panel	7" Touch Panel LCD
Display Languages	English / Chinese
LED Lighting	2
System Luminance	88lux/1M
UPS Capacity	5,000VA / 4,500W
UPS Backup time	10 minutes @3000W load 20 minutes @2000W load
System Input Requirement	Min. 40A Max. 50A, Single Phase
System Frequency	50Hz or 60Hz (2 different models)
Power Distribution Units (PDU)	32A input Switched PDU, 18x C13 + 6x C19
Lightning Protection / Surge Suppression	Level 3, 20KA
Maintenance Bypass	Included
Cooling Capacity	900W ~ 3,000W, variable speed
Refrigerant	R410A
Emergency fan	Two, one at front bottom and one at rear top
System Management (UPS/Cooling/PDU)	Yes
Temperature Sensor	2
Water Leak Detection	1 piece, 5 meters long
Door Access Sensor	2
Safety Standards	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
EMC Standards	EN 55022:2010 EN 61000-3-11:2000 EN 55024:2010 EN 61000-3-12:2011
Audible Noise	< 50dB (excluding outdoor unit)
Shipping Weight	438kg
Net Weight	348kg
Warranty	2 years parts warranty at system level (ANZ)

* Emerson Network Power reserves the rights to amend the specification without prior notice



New South Wales (Head Office)

Unit 25/1, Talavera Road,
Macquarie Park NSW 2113
Phone: (02) 8467 7777
Fax: (02) 8467 7717

Queensland

Suite 7, Alexandra Business Centre
240 Ipswich Road, Woolloongabba QLD 4102
Phone: (07) 3907 0222
Fax: (07) 3907 0333

Australian Capital Territory

Unit 25/1, Talavera Road
Macquarie Park NSW 2113
Phone: (02) 8467 7777
Fax: (02) 8467 7717

Western Australia / Northern Territory

Unit 1, 56 Prindiville Drive
Wangara, WA 6065
Phone: (08) 9309 5317
Fax: (08) 6210 5915

Victoria

Unit 11/5 Enterprise Drive Rowville VIC 3178
Phone: (03) 9764 8550
Fax: (03) 9764 8770

South Australia

24 Hindmarsh Ave
Welland SA 5007
Phone: (08) 7200 2350
Fax: (08) 7200 2360

www.nps.com.au

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