SMDC – Multi-module

up to 300 kVA, hybrid cooling

Description

The Smart Modular Data Centre (SMDC) is a scalable, pre-assembled, plug-and-play solution designed for edge computing and engineered for rapid deployment.

The multi-module SMDC ensures a capacity of up to 300 kVA. It consists of 42U racks, integrated intelligent power distribution, uninterruptible power supplies (UPS) and a flexible cooling system with a capacity of up to 25 kW per cooling unit.

It also includes a fire extinguishing system, air gap sealing and comprehensive software for infrastructure management.

This multi-module solution offers multiple configuration options for redundant power and cooling enabling seamless scalability and technology upgrades with little additional cost or disruption.

Application

The multi-module SMDC supports edge computing, operating smart facilities with IoT devices, and running remote or branch offices.

Advanced applications include technologies such as AI, AR, VR and automation systems that require flexible, scalable and energy-efficient real-time data processing.

Mechanical properties

Front door	with 5 mm toughened double glass (does not apply to in-row cooler)
Rear door	made of solid sheet steel
Side panels	removable, with grounding bolt
Top panel	Cable entry possible
Bottom panel	Cable entry possible
Mounting profile	2 pairs of 19" vertical profiles (front / rear)

Technical properties

Emergency ventilation	Top of the rack and front door, extracting hot air from the rack in case of cooling failure
PDU	Intelligent power management
UPS capacity	up to 300 kVA
UPS autonomy time extension	8 to 15 minutes
DCIM	Real-time status monitor and control
User interface	10.4" touch screen and remote web interface
Sensors	Cooling system, UPS, power usage effectiveness (PUE), iPDU*, IT load, access control*, temperature, humidity and alarm status
Alarm & notification	Sound and light alarm with SMS and email notification
Access control	Card or keypad
Fire suppression	FM200-J / NOVEC 1230 rack mounted (2U)*

Versions

Material number	Product	IT load	Available space	Cooling / Condenser	Input power
41905003ZY	SMDC – Multi-module	up to 267 kW	up to 100 racks	In-row / outdoor	380 - 415 VAC, 3Ph+N+PE 50/60Hz

The Smart Modular Data Centre is a tailor-made and customised solution to fulfil the customers' specific needs and requirements.
*depending on your configuration

Subject to technical modification

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