SMDC – Multi-rack

up to 30 kVA

Description

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

Each multi-rack SMDC features a configurable power supply unit and a redundant in-row cooling system, providing seamless scalability and technology upgrades with little additional cost or disruption.

This multi-rack solution ensures a capacity of up to 30 kVA. It consists of 42U racks, an integrated intelligent power distribution, an uninterruptible power supply (UPS, optionally redundant) and a flexible, compact cooling system with a capacity of up to 25 kW per cooling unit. There is also a fire extinguishing system (optional), air gap sealing and comprehensive software for infrastructure management.

Application

The multi-rack SMDC supports edge computing, operating smart facilities with IoT devices, remote or branch offices or it serves as a building distributor (BD).

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
Input voltage	380 - 415 VAC, 3Ph+N+PE 50/60 Hz
PDU	intelligent power management
UPS capacity	up to 30 kVA
UPS autonomy time extension	1h
Cooling	In-row cooler with external condenser
Cooling capacity	up to 25 kW
DCIM	Real-time status monitor and control
User interface	11.6" 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 and keypad
Fire suppression	NOVEC 1230 rack mounted (2U)*

Versions

Material number	Product	Cooling capacity [kW]	Maximum UPS capacity [kVA]	IT load	Available space	Weight [kg]
212117	SMDC 3 - 4 Racks	12.5	10	10 kW	n-1 Rack	0.01 kg
212118	SMDC 4 - 6 Racks	21.2	20	20 kW	n-1 Rack	0.01 kg
212119	SMDC 7 - 10Racks	25	30	30 kW	n-1 Rack	0.01 kg

*depending on your configuration

Subject to technical modification