SMDC – Multi-rack

up to 40 kVA, hybrid cooling

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 40 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, 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
PDU	Intelligent power management
UPS capacity	up to 40 kVA
UPS autonomy time extension	8 to 15 minutes
Cooling	up to 50.4 kW (CW or DX)
DCIM	Real-time status rmonitor 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 (1U / 2U)*

Versions

Material number	Product	Description	Colour	Weight [kg]	GTIN / EAN
40014320ZY	UPS10NB	Modular power module, 10 kVA, w/o battery	black	30 kg	40393910222852
40014330ZY	UPS15NB	Modular power module, 15 kVA, w/o battery	black	35 kg	40393910222845
40014340ZY	UPS20NB	Modular power module, 20 kVA, w/o battery	black	37 kg	40393910222838
40014350ZY	UPS30NB	Modular power module, 30 kVA, w/o battery	black	40 kg	40393910222814
40014360ZY	UPS40NB	Modular power module, 40 kVA, w/o battery	black	43 kg	40393910222821
40014370ZY	B4U409	Battery module, 12V/9AH	black	123 kg	40393910221060
40014380ZY	SR600X1400	Server rack, 42U	black	220 kg	40393910088557
40014390ZY	NR800x1400	Network rack, 42U	black	260 kg	40393910088540
40014400ZY	ER600X1400	Electrical rack, 42U	black	220 kg	40393910088533
40014410ZY	BR600X1400	Battery rack, 42U	black	260 kg	40393910088526
40014420ZY	COOL25	Cooling unit, 25 kW, indoor/outdoor	black	830 kg	40393910223262
40014430ZY	COOL12.5	Cooling unit, 12.5 kW, indoor/outdoor	black	525 kg	40393910223279
40014440ZY	COOL7.5	Cooling unit, 7.5 kW, indoor/outdoor	black	375 kg	40393910223286

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