

SMDC – Single-rack

up to 6 kVA



Description

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

This single-rack solution ensures a capacity of up to 6 kVA. It consists of a 42U rack, integrated intelligent power distribution, a configurable uninterruptible power supply (UPS) and a compact integrated cooling unit.

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

The equipment can be customised according to customer needs and requirements.

Application

The single-rack SMDC supports edge computing, operating smart facilities with IoT devices, remote or branch offices or serves as a floor distributor (FD).

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

General properties

Outer dimensions (HxWxD)	42 U, 2000 mm x 600 mm / 800 mm x 1400 mm
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Mechanical properties

Front door	with 5 mm toughened double glass
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	220 V, 50 Hz, Single phase
PDU	intelligent power management
UPS capacity	6 kVA
UPS autonomy time extension	15 minutes
Cooling	rack mounted, internal compressor
Cooling capacity	up to 7.5 kW
DCIM	Real-time status monitor and control
User interface	10.1" 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 (optional)

Versions

Material number	Product	Colour	Cooling capacity [kW]	IT load	Available space	Input power	Weight [kg]
212114	SMDC 6 kVA	black	3.5	3.5 kW	24U - 26U	60 A	0.01 kg
212116	SMDC 6 kVA	black	7.5	6 kW	22U - 24U	80 A	0.01 kg

*depending on your configuration

Subject to technical modification

As of 2025-10-01 11:58:15