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Designed with the future in mind

AI READY

centiel
continuous power availability

StratusPower™ 400V

Modular three-phase UPS
10 kW to 3.75 MW

SWISS MADE

StratusPower™
The ultimate UPS for net-zero data centers

StratusPower is an innovative uninterruptible power supply (UPS), specifically designed to meet the rigorous demands of today's IT infrastructure.

Designed and manufactured in Switzerland, StratusPower's superior topology, referred to as **DARA**, ensures full availability with **no single point of failure**, providing data center operators with complete peace of mind. Furthermore, installation of StratusPower is straightforward and maintenance is simple and non-intrusive.

Minimise your total cost of ownership while achieving the highest levels of availability and reliability for your data center.

97.6% **VFI efficiency**
Reliable semiconductor technology

1 MW/m² Space-saving footprint

Green UPS · DARA TECH · SWISS MADE

99.9999999 % availability
No single point of failure

Fully redundant
DARA - fault-tolerant architecture

Fully connected
multi-protocol and a full range of communication channels available

From 10 kW – 3.75 MW
In cabinets from 10 kW to 1.5 MW

Non-intrusive maintenance
15+ years caps and smart fans

Smart energy
peak-shaving, self-test

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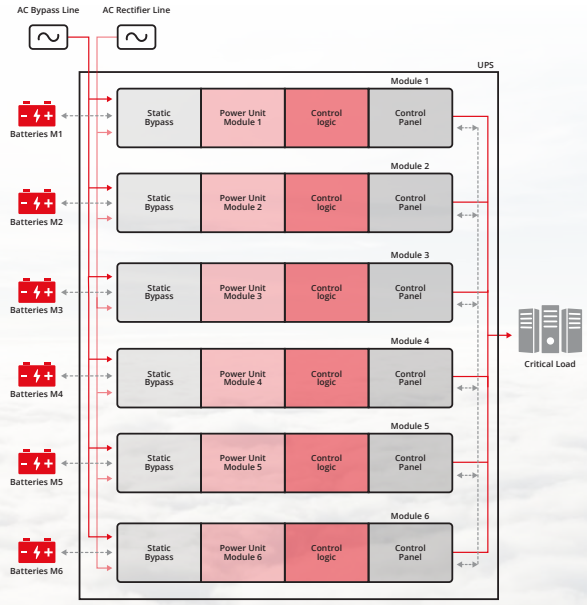
DARA
Take your power availability to the next level

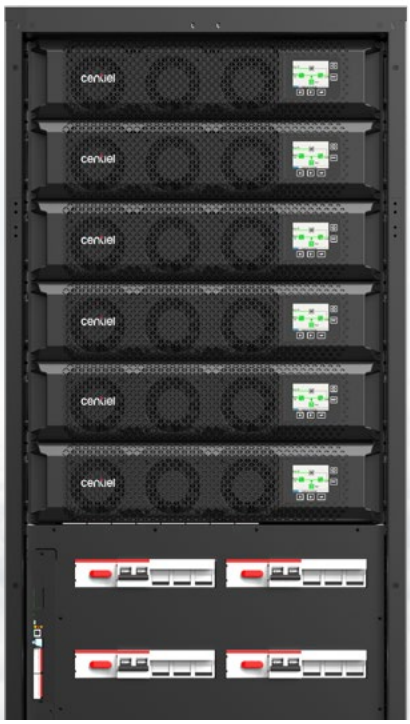
When it comes to availability, it's what's inside that counts

With DARA, each UPS module is independent, redundant and interconnected. Each module is a complete UPS system in its own right, with three independent power converters, a static bypass and all the hardware devices needed to safely isolate a fault without impacting the load. This maximises the mean time between failures (MTBF) and safeguards the power to your critical applications.

DARA's Distributed Decision Making technology, referred to as DDM™, elevates redundancy by enabling collaborative decision-making among all modules. This ensures the continuous power supply to your load, even during crucial decision-making moments. With DDM, the UPS can make distributed decisions, eliminating the single point of failure typically associated with master-slave technology. As a result, downtime is minimised, and critical loads remain protected.

Maximised availability at module, frame and system level





DARA TECH

Mean time to repair (MTTR)

DARA's technology on the frame level has been designed to accommodate **non-intrusive maintenance** and to **minimise mean time to repair (MTTR)**, ensuring that any downtime is kept to an absolute minimum. For example, in the event of a power failure, frontal access to components avoids the need for removing modules, thereby reducing the risk of human error.

	Availability	Downtime (10 years)	Source
Tier IV	4-nines	31,000 sec (8.6h)	Uptime Institute
Other UPS architectures	6-nines	310 sec (5.1 min)	Manufacturer's information
DARA architecture	9-nines	0.31 sec	3rd party verified 45 years of experience Real measured UPS data

9-nines **Power availability**

Unveiling the power of StratusPower

At Centiel, we understand our customers' pain points and have designed the StratusPower with availability and sustainability as major considerations. With StratusPower, we guarantee peace of mind by knowing that your critical infrastructure is protected by the most advanced UPS technology.

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The future-ready UPS

Advanced computing power
Multi-core
Trigonometric math unit
Control law accelerator
Parallel processing
IEEE 754 double-precision math

100+ Measuring points
At the module level

External ambient monitoring
Temperature
Humidity
Hydrogen
Water leak

Cybersecure connection
Compliant IEC-4-62443-2

Supporting HPC and AI workloads

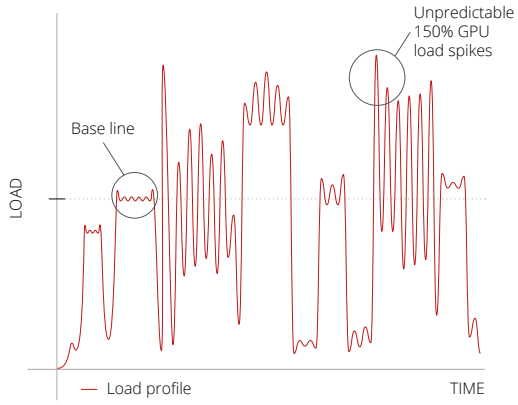
StratusPower is designed to handle the **unpredictable and intense power demands** of High-Performance Computing (**HPC**) and Artificial Intelligence (**AI**) workloads.

Unlike standard cloud computing systems that rely mostly on CPUs, HPC and AI systems utilize GPUs that drive power spikes during high-intensity tasks like deep learning and complex simulations.

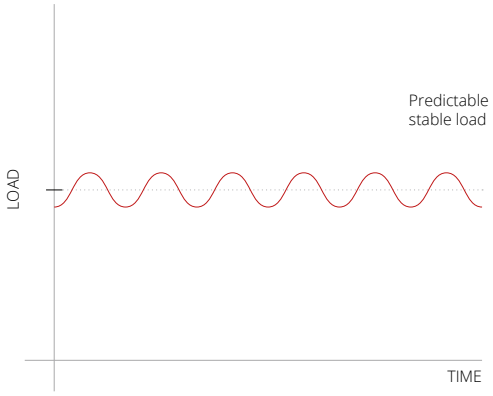
These sudden spikes in load can overwhelm traditional UPS systems, risking system failure and data loss. StratusPower's modular design is specifically designed to manage these unpredictable power surges with outstanding **continuous overload capability** ensuring your critical infrastructure remains protected.

With StratusPower, you can trust that even the most power-hungry applications are safeguarded, preventing costly disruptions.

GPU - HPC, AI computing workload



CPU - Traditional cloud computing workload

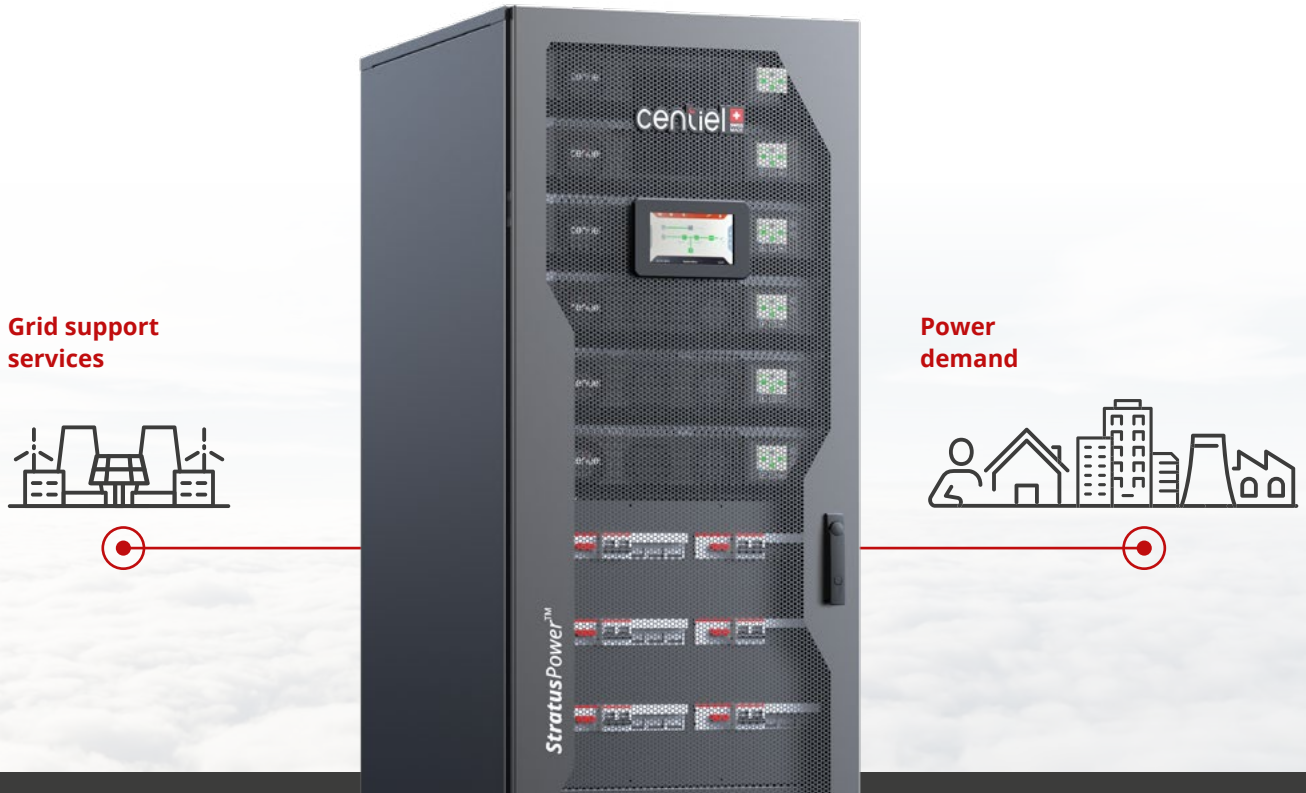


Future proof your design

StratusPower is **future-ready** and can connect to a variety of power generation sources. It is equipped to provide grid support and manage energy efficiently based on the specific requirements of each application.

Adapt to new revenue streams

- **FFR** – Fast Frequency Response and Reserve
- **PSH** - Peak Shaving Mode
- **FCR** - Frequency Containment Reserve
- **aFRR** – Automatic Frequency Restoration Reserve



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Benefits

DC Flex technology

Our unique DCFlex© technology offers unparalleled flexibility when it comes to battery storage installation and configuration, as well as preparing the infrastructure to manage both current and future energy sources.

Our UPS solution is compatible with various battery storage devices, allowing you to reuse the DC supply or to choose the option that best suits your needs and budget.

The StratusPower battery charging current capability is 500 percent higher than our closest competitors, meaning **faster charging times** and more **efficient use of your batteries.**

Robust and reliable semiconductor technology

The StratusPower incorporates proprietary technology for inverter physical isolation in the event of an IGBT failure, ensuring maximum uptime for your critical infrastructure.

The **triple-mode parallel** bus provides an extra layer of redundancy, eliminating any single point of failure in communication between frames and modules.

At Centiel, we take reliability very seriously. That's why we designed our technology with **extra-safe power of 24%**, ensuring a higher level of reliability and redundancy. With continuous operating capacity, each 62.5kW module can operate at 75 kW even under overload conditions. The 750 kW StratusPower UPS has the ability to operate in online mode, supporting loads up to 900 kW.

DCFlex© **240 to 600VDC**

75kW **UPS module capacity at continuous overload**

Predictive and remote health monitoring

With its computing capabilities and more than 100 measurement points, StratusPower does the work for you, ensuring that maintenance is performed promptly and accurately.This not only saves time and effort but also improves your system's overall reliability and safety.

Bluetooth connectivity allows technicians for easy, **non-intrusive** monitoring via mobile devices, with the Centiel app providing real-time status updates and alerts.

StratusPower provides advanced **cybersecurity** features in compliance with **IEC-4-62443-2**, making certain that your critical data and systems are protected from cyber threats.

Exceeding performance expectations

With a **THDi of less than 1 percent**, StratusPower provides excellent performance that exceeds regulatory requirements.

The UPS is able to handle 124% of continuous overload and 150% overload for 1 minute, ensuring uninterrupted power delivery during times of peak demand.

A **short circuit capability above 3xIn** safeguards your equipment and system integrity despite electrical faults.

Tangible sustainability:
We help your data center achieve CO_2 emissions targets through our solutions and services.

Green UPS

Energy efficiency

StratusPower is designed with energy efficiency in mind, using the latest technology to reduce energy consumption and minimise losses.

97.6% (VFI) efficiency

Zero waste

StratusPower is manufactured using eco-friendly materials, ensuring that our products have minimal impact on the environment.

30+ years of UPS design life

15+ years of life on replaceable components

Net zero by design

Our company is continuously committed to improving our sustainability practices, and we manufacture StratusPower using environmentally friendly processes to minimize our impact on the environment.

96% of the energy used for production testing is recycled and renewable

The versatile Universal Rack UPS solution

Available as a Universal Rack UPS, StratusPower offers a blend of technical and commercial benefits tailored to meet a variety of power protection needs. This adaptable system includes the UPS, communication components, battery breakers and output switches, making it ideal for integrated IT, telecom or other critical processes. The UPS integrates seamlessly into **any 19-inch rack**, regardless of the rack manufacturer.

With its versatile design, StratusPower simplifies the engineering and deployment of custom power protection solutions. System integrators can leverage their expertise and implement unique solutions to meet specific design requirements. The UPS can be seamlessly integrated into weatherproof enclosures, making it ideal for applications in harsh environments.

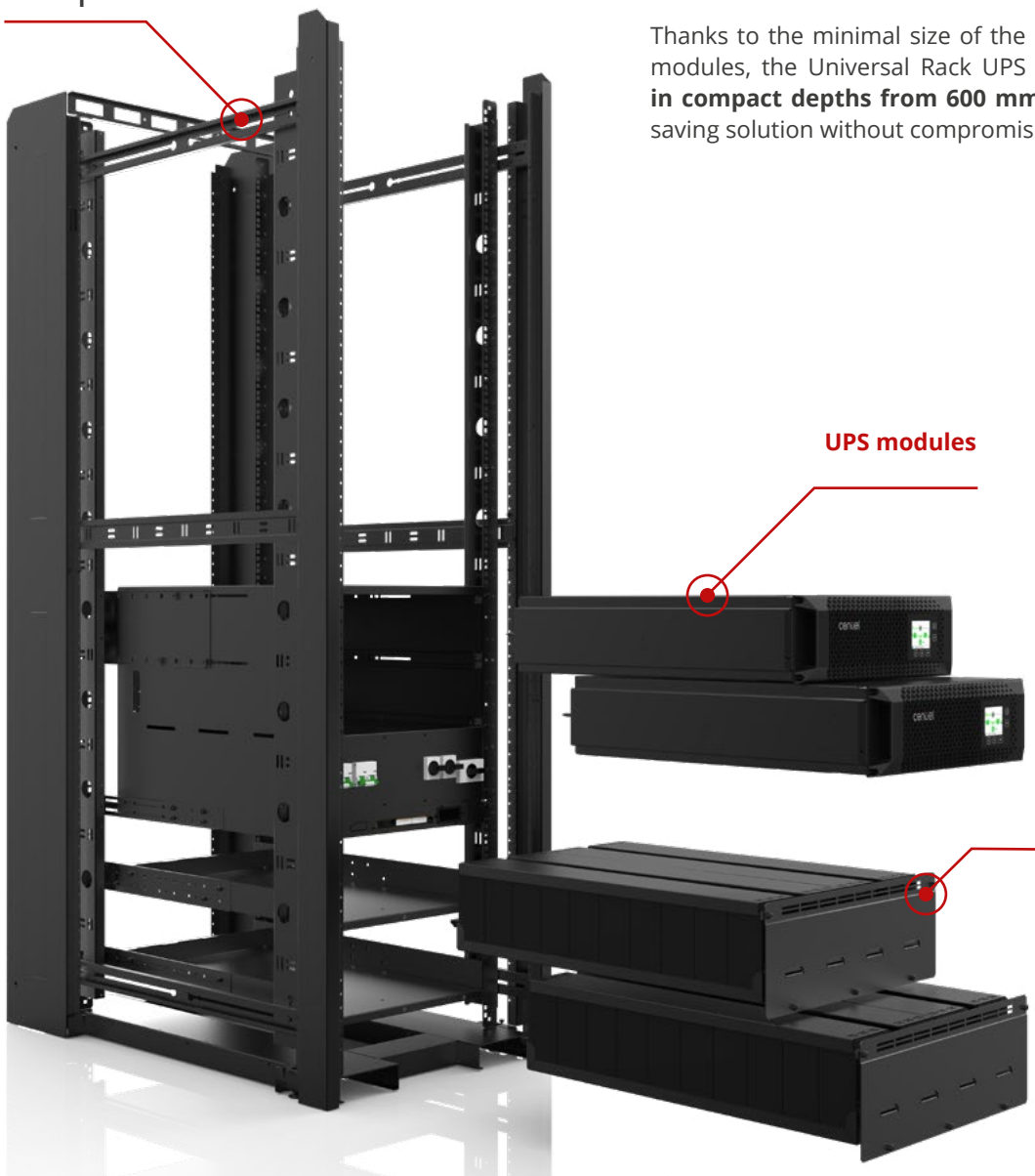
The Universal Rack Solution provides **efficient heat management** by directing warm air to the rear of the cabinet for optimal cooling without affecting the entire enclosure.

For system integrators, the Universal Rack solution offers efficient **customisation with standard products** and the opportunity to add significant local value to their power protection solutions.

The Universal Rack offers **versatile battery placement options**, allowing either top or bottom customisation to suit specific preferences and operational requirements.

Thanks to the minimal size of the **10/20/25 and 30kW** modules, the Universal Rack UPS solution is available **in compact depths from 600 mm**, providing a space-saving solution without compromising performance.

From 600mm deep cabinets



Universal Rack UPS solution

Available UPS power rating configurations

Model	CAB-SR030-E-1S-C0	CAB-SR060-E-2S-C0	CAB-SR120-E-4S-C1
Power per module (kVA =KW)	10/20/25/30 kW	10/20/25/30 kW	10/20/25/30 kW
N-modules	1	1 to 2	1 to 4
Height	6 HU	11 HU	21 HU
Nominal power / cabinet	30 kW	60 kW	120 kW

The Universal Rack UPS includes

Fits seamlessly into any 19" rack

Up to four UPS modules
online double conversion

Individual module display

Electrical distribution

DC battery MCB protection
1 x module

Bypass fuses
3 x module

Output parallel isolator
1 x module

System manual bypass

Connectivity board
5x dry output, 5x dry input, RS232, RS485,Bluetooth, Ethernet, slot for SNMP

Up to four battery modules in a single cabinet

Free placement of internal battery modules
bottom or top

Available in depth from 600 mm

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Unmatched flexibility and scalability for diverse power needs

Comprehensive options for StratusPower modules

Designed to meet a variety of applications, StratusPower offers a range of modules to meet your needs, including compact modules up to 30 kW and more powerful modules up to 62.5 kW. The adaptability extends further with the capability to consolidate power in a single cabinet, spanning from 10 kW to an impressive 1500 kW. Scaling doesn't stop there—StratusPower cabinets can be seamlessly expanded to a staggering 3.75 MW.

Available models

Module type	SM10 / SM20 / SM25 / SM30	SM50 / SM62
Power per module (kVA =KW)	10/20/25/30 kW	50 / 62.5 kW
Weight (kg)	18/20	46
Dimensions h x w x d (mm)	132 x 443 x 522	132 x 581x 848

StratusPower
SM10/SM20/SM25/SM30

Model	CAB-SP060-I080-2S-A1	CAB-SP060-I240-2S-A0	CAB-SP120-I320-4S-B0
Modules	Up to 2 x SM10/20/25/30	Up to 2 x SM10/20/25/30	Up to 4 x SM10/20/25/30
Nominal power / cabinet	60 kW	60 kW	120 kW
Internal battery capacity	80 x (7/9Ah)	240 x (7/9Ah)	320 x (7/9Ah) or 80 x (28Ah)
Dimensions h x w x d (mm)	1315 x 510 x 815	1980 x 510 x 815	1980 x 730 x 815
Footprint	0.41 m²	0.41 m²	0.59 m²

Model	CAB-SP120-E-4S-A1	CAB-SP180-E-6S-A0	CAB-SP240-E-8S-A0
Modules	Up to 4 x SM10/20/25/30	Up to 6 x SM10/20/25/30	Up to 8 x SM10/20/25/30
Nominal power / cabinet	120 kW	180 kW	240 kW
Internal battery capacity	External	External	External
Dimensions h x w x d (mm)	1315 x 510 x 815	1980 x 510 x 815	1980 x 510 x 815
Footprint	0.41 m²	0.41 m²	0.41 m²

StratusPower
SM50/SM62.5

Up to
1.5 MW
per frame

Ultra-compact model

Ultra-compact model

Model	CAB-SP625T-E-10M-LT-K	CAB-SP1250T-E-20M-LT-2K
Modules	Up to 10 x SM50 / SM62	Up to 20 x SM50 / SM62
Nominal power / cabinet	625 kW	1250 kW
Dimensions h x w x d (mm)	2282 x 656 x 900	2282 x 1312 x 900
Footprint	0.59 m²	1.18 m²

Model	CAB-SP375(B/T)-E-6M-(LT/AV)-K	CAB-SP750(B/T)-E-12M-(LT/AV)-2K	CAB-SP875(B/T)-E-14M-(LT/AV)-2K2
Modules	Up to 6 x SM50 / SM62	Up to 12 x SM50/62	Up to 14 x SM50 / SM62
Nominal power / cabinet	375 kW	750 kW	875 kW
Dimensions h x w x d (mm)	1982 x 656 x 900	1982 x 1312 x 900	2271x1312x1000
Footprint	0.59 m²	1.18 m²	1.31 m²

Model	CAB-SP1125(B/T)-E-18M-(LT/AV)-3K	CAB-SP1500(B/T)-E-24M-(LT/AV)-4K
Modules	Up to 18 x SM50/62	Up to 24 x SM50/62
Nominal power / cabinet	1,125 kW	1,500 kW
Dimensions h x w x d (mm)	1982 x 1968 x 900	1982 x 2624 x 900
Footprint	1.77 m²	2.36 m²

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Technical Datasheet

		Model	CAB-SP060-I080-2S-A1 CAB-SP060-I240-2S-A0	CAB-SP120-E-4S-A1 CAB-SP120-I320-4S-B0	CAB-SP180-E-6S-A0	CAB-SP240-E-8S-A0
General Data		Module type	SM10/20/25/30	SM10/20/25/30	SM10/20/25/30	SM10/20/25/30
		Nom. power per module [kVA = kW]	10 / 20 / 25 / 30	10 / 20 / 25 / 30	10 / 20 / 25 / 30	10 / 20 / 25 / 30
		Cont. overload per module [kVA = kW]	**12 / 24 / 30 / 36**	**12 / 24 / 30 / 36**	**12 / 24 / 30 / 36**	**12 / 24 / 30 / 36**
		Nom. power per frame [kVA = kW]	**60**	**120**	**180**	**240**
		Cont. overload per frame [kVA = kW]	**72**	**144**	**216**	**288**
		Number of modules per frame	1-2	1-4	1-6	1-8
		Max. power per system [kVA = kW]	1800	1800	1800	1800
		Topology / technology	**Online double conversion / DARA (Distributed Active Redundant Architecture)**			
Input	Rectifier	Input wiring	3 Ph + N + PE			
		Rated voltage	380/400/415Vac			
		Voltage range	For loads <100% (−25%, +20%), <80% (−32.5%, +20%), <60% (−35%, +20%)			
		Input frequency	30-70 Hz			
		Total Harmonic Distortion	THDi<=0.9% for linear load, THDi<3% for nonlinear load			
		Input power factor	0,99			
	Bypass	Input wiring	3 Ph + N + PE			
		Rated voltage	±30...±10% (Voltage) (According to VFI-SS-111)			
		Input frequency	50/60 ±2/4% (selectable)			
	Battery	Rated voltage	204-600 Vdc (the number of batteries can be selected)			
		Internal batteries (7/9Ah)	I080: 80 I240: 240	E: External I320: 320	E: External	E: External
		Type	Lead-Acid / NiCad / Lithium / Zink / Salt / others...			
		Blocks [VRLA]	**17-50**			
Output	Inverter	Output wiring	3Ph+N+PE			
		Voltage	380/400/415 Vac			
		Frequency	Tracking the bypass input (Online Mode); 50 / 60 Hz ± 0.05% (Battery Mode)			
		Output power factor	1			
		Efficiency	**97,6%**			
		Overload capacity	**Inverter: 124% continuous, 125% for 10min, 150% for 60 sec**			
		Short circuit capability	**Up to 3xIn - 400ms**			
	Bypass	Efficiency	**99,4%**			
Environment		Operating temperature	0-40°C (No power derating)			
		Storage temperature	-40-70°C			
		Relative humidity	10%-95% (No condensing)			
		Maximum operating altitude	1000 m. above 1000 m, derating 1% for each additional 100 m			
Others		Dimensions (H x W x D) [mm]	1315 x 510 x 815 1980 x 510 x 815	1315 x 510 x 815 1980 x 730 x 815	1980 x 510 x 815	1980 x 510 x 815
		Certifications	EN/IEC 62040-1 | EN/IEC 62040-2 | EN/IEC 62040-3 | CE | UKCA | EAC | RoHS			
		Communications	RS485, USB, Dry contacts, Ethernet, Bluetooth			

Technical Datasheet

		Model	CAB-SP375(B)-E-6M-(LT/AV)-K CAB-SP375(T)-E-6M-(LT/AV)-K	CAB-SP750(B)-E-12M-(LT/AV)-2K CAB-SP750(T)-E-12M-(LT/AV)-2K	CAB-SP875(B)-E-14M-(LT/AV)-2K2 CAB-SP875(T)-E-14M-(LT/AV)-2K2	CAB-SP1125(B)-E-18M-(LT/AV)-3K CAB-SP1125(T)-E-18M-(LT/AV)-3K	CAB-SP1500(B)-E-24M-(LT/AV)-4K CAB-SP1500(T)-E-24M-(LT/AV)-4K
General Data		Module type	SM50 / SM62	SM50 / SM62	SM50 / SM62	SM50 / SM62	SM50 / SM62
		Nom. power per module [kVA = kW]	50 / 62.5	50 / 62.5	50 / 62.5	50 / 62.5	50 / 62.5
		Cont. overload per module [kVA = kW]	**60/75**	**60/75**	**60 / 75**	**60/75**	**60/75**
		Nom. power per frame [kVA = kW]	375	750	875	1125	1500
		Cont. overload per frame [kVA = kW]	**450**	**900**	**1050**	**1350**	**1800**
		Number of modules per frame	1-6	1-12	1-14	1-18	1-24
		Max. power per system [kVA = kW]	3750	3750	3750	3750	3750
		Topology / technology	**Online double conversion / DARA (Distributed Active Redundant Architecture)**				
Input	Rectifier	Input wiring	3 Ph + N + PE				
		Rated voltage	380/400/415Vac				
		Voltage range	For loads <100% (−25%, +20%), <80% (−32.5%, +20%), <60% (−35%, +20%)				
		Input frequency	30-70 Hz				
		Total Harmonic Distortion	THDi<=0.6% for linear load, THDi<3% for nonlinear load				
		Input power factor	0,99				
	Bypass	Input wiring	3 Ph + N + PE				
		Rated voltage	±30...±10% (Voltage) (According to VFI-SS-111)				
		Input frequency	50/60 ±2/4% (selectable)				
	Battery	Rated voltage	360 - 600 Vdc (the number of batteries can be selected)				
		Internal batteries (7/9Ah)	E: External				
		Type	Lead-Acid / NiCad / Lithium / Zink / Salt / others...				
		Blocks [VRLA]	**30-50**				
		Charger (Amps per module)	**SM50: 50A, SM62: 60A**				
Output	Inverter	Output wiring	3Ph+N+PE				
		Voltage	380/400/415 Vac±1%				
		Frequency	Tracking the bypass input (Online Mode); 50 / 60 Hz ± 0.05% (Battery Mode)				
		Output power factor	1				
		Efficiency	**97,6%**				
		Overload capacity	**Inverter: 124% continuous, 125% for 10 min, 150% for 60 sec**				
		Short circuit capability	**Up to 3.5xIn - 400ms**				
	Bypass	Efficiency	**99,4%**				
Environment		Operating temperature	0-40°C (No power derating)				
		Storage temperature	-40-70°C				
		Relative humidity	10%-95% (No condensing)				
		Maximum operating altitude	1000 m. above 1000 m, derating 1% for each additional 100 m				
Others		Dimensions (H x W x D) [mm]	1982 x 656 x 900 | 1982 x 1312 x 900 | 2272x1312x1000 | 1982 x 1968 x 900 | 1982 x 2624 x 900				
		Certifications	EN/IEC 62040-1 | EN/IEC 62040-2 | EN/IEC 62040-3 | CE | UKCA | EAC | RoHS				
		Communications	RS485, USB, Dry contacts, Ethernet, Bluetooth				

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