

Designed  
with the  
future in  
mind



**centiel**  
*continuous power availability*

**StratusPower™ 208V**

Modular three-phase UPS  
5 kW to 1.86 MW





## StratusPower™ A modular UPS designed to support energy-efficient and low-carbon 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 uses **DARA** (Distributed Active Redundant Architecture), which is designed to eliminate **single points of failure** and support very high availability for critical loads.



Minimize total cost of ownership while supporting very high availability and reliability.

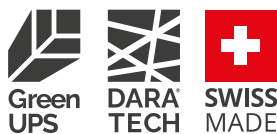
Up to 97.6%

**VFI efficiency**

Reliable semiconductor technology

Up to 5 MW/m<sup>2</sup>

Space-saving footprint



**Up to 99.999999% (9-nines)**

No single point of failure  
**Fully redundant**

DARA - fault-tolerant architecture

**Fully connected**

multi-protocol and a full range of communication channels available

**From 5 kW – 1.86 MW**

In cabinets from 5 kW to 744 MW

**Non-intrusive maintenance**

15+ years caps and smart fans

**Smart energy**

peak-shaving, self-test



# DARA

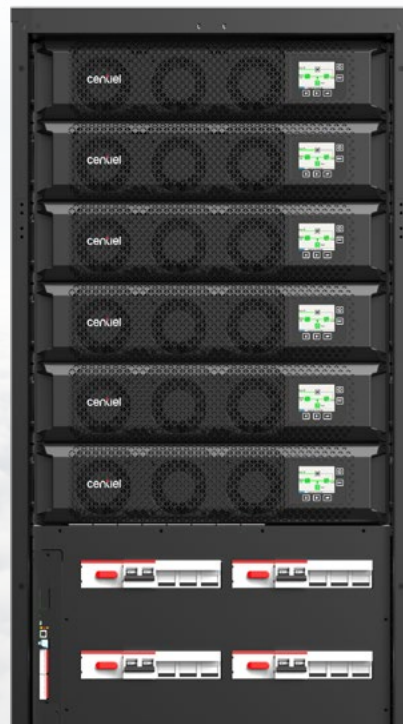
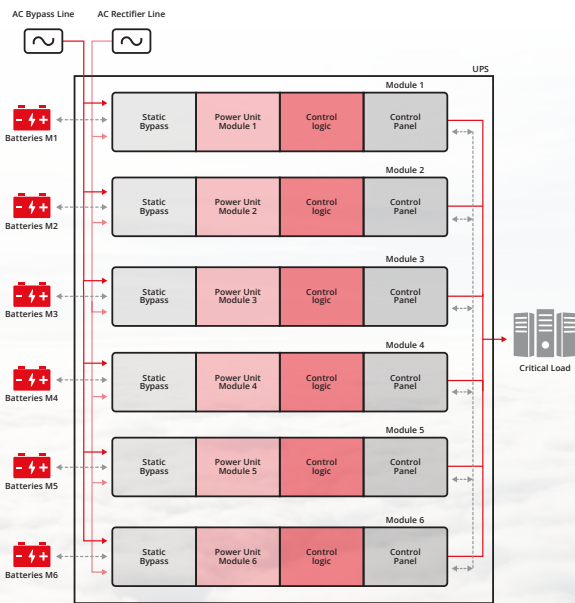
## Take your power availability to the next level

### 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 design helps increase mean time between failures (MTBF) and supports continuity for critical applications.

DARA's Distributed Decision Making technology, referred to as DDM™, elevates redundancy by enabling collaborative decision-making among all modules. This design supports continuity of supply to the load, including during decision-making events. With DDM, the UPS can make distributed decisions, reducing reliance on a single master controller often found in master-slave architectures. As a result, downtime can be reduced and critical loads remain supported.

### Maximised availability at module, frame and system level



### 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)**, helping minimize downtime. 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.

Up to **9-nines** Power availability

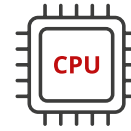
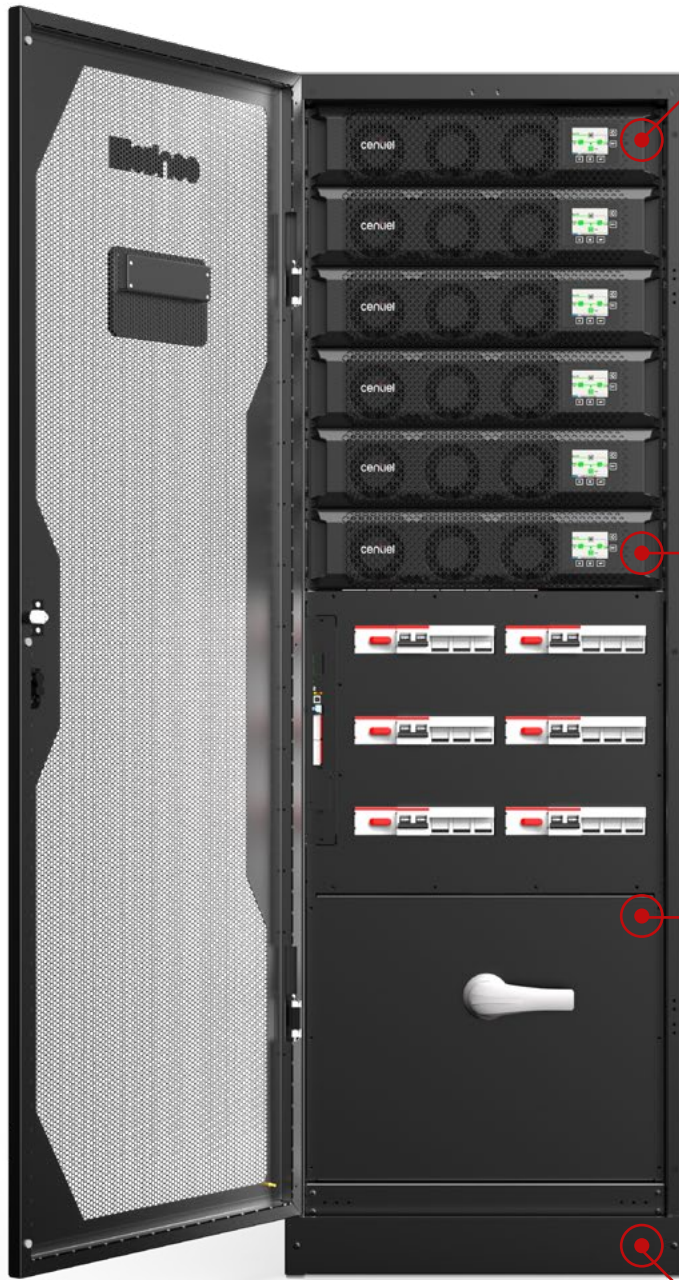


## Unveiling the power of StratusPower

At Centiel, we understand our customers' pain points and have designed the StratusPower with availability and sustainability as major considerations. StratusPower is designed to protect critical infrastructure using advanced UPS technology, supporting high availability and sustainability goals.



# 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

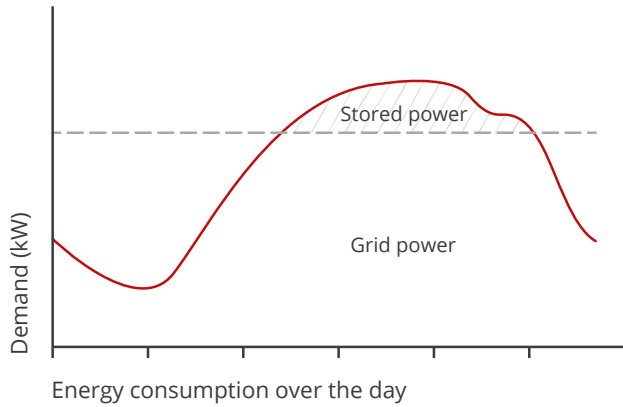
Compliant IEC-4-62443-2



## Advanced energy management

StratusPower provides **peak-shaving capabilities** to help businesses manage electricity usage and reduce costs. By utilising StratusPower's peak-shaving feature,

businesses can reduce their energy consumption during peak hours when electricity rates are typically at their highest. This results in significant cost savings.



### StratusPower's peak-shaving capabilities

At times of peak consumption, grid operators may charge higher prices for their power. To minimise costs for the user, a portion of the energy stored locally in the UPS can be utilised during these times, thereby reducing the amount drawn from the grid.

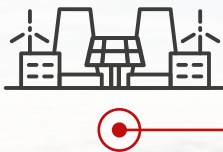
The UPS batteries can then be recharged with power during off-peak times.

## With the future in mind

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.

**Power generation**



**Power demand**





## Benefits

### DC Flex technology



Our unique DCFlex© technology offers high 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.

StratusPower supports high charging current capability (e.g., up to 60A per module, model dependent) to help reduce recharge time.

### Robust and reliable semiconductor technology



The StratusPower incorporates proprietary technology for inverter physical isolation in the event of an IGBT failure, helping support high uptime for 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 the system with additional operating margin (24% extra capacity) to support reliability and overload performance. 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© 168 to 360VDC

37kW 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 supports low input harmonic distortion to help maintain power quality.

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:  
StratusPower is designed to support sustainability targets by improving UPS efficiency and reducing energy losses.



### Energy efficiency

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StratusPower is designed with energy efficiency in mind, using advanced design to reduce energy consumption and minimize losses.

97.6% (VFI) efficiency

### Designed to support net-zero strategies in data center operations

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StratusPower is manufactured using selected materials and processes designed to reduce environmental impact.

30+ years of UPS design life  
15+ years of life on replaceable components

### Sustainable by design

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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 into most standard **19-inch racks**, 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.

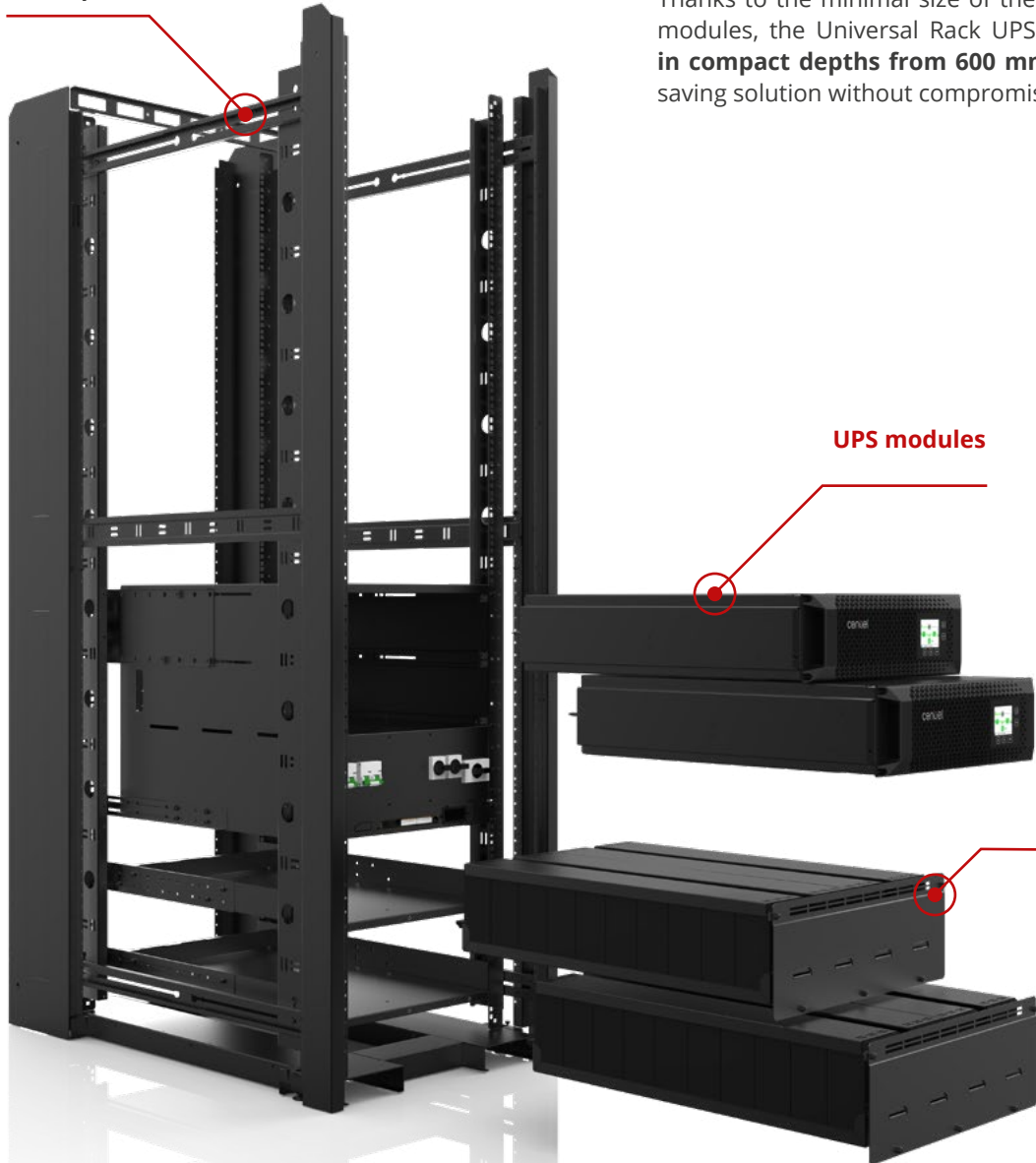
The Universal Rack Solution supports **efficient heat management** by directing airflow to the rear of the cabinet.

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



UPS modules

Flexible integration of **n-battery modules** in any frame position



## Universal Rack UPS solution

### Available UPS power rating configurations



Model	CAB-SR030-E-1S-Co	CAB-SR060-E-2S-Co	CAB-SR120-E-4S-C1
Power per module (kVA =KW)	5/10/12.5/15 kW	5/10/12.5/15 kW	5/10/12.5/15 kW
N-modules	1	1 to 2	1 to 4
Height	6 HU	11 HU	21 HU
Nominal power / cabinet	15 kW	30 kW	60 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**



## Flexible 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 15 kW and more powerful modules up to 31 kW. The adaptability extends further

with the capability to consolidate power in a single cabinet, spanning from 5 kW to an impressive 744 kW. Scaling doesn't stop there—StratusPower cabinets can be seamlessly expanded to a staggering 1.86 MW.

### Available models



Module type	SM 05 / 10 / 12 / 15-2V-S	SM 25 / 31-2V-M
Power per module (kVA =KW)	5/10/12.5/15 kW	25/31 kW
Weight (kg)	18/20	46
Dimensions h x w x d (mm)	132 x 443 x 522	132 x 581x 848

### StratusPower SM05/10/12/15-2V-S



Model	CAB-SP060-1080-2S-A1	CAB-SP060-1240-2S-A0	CAB-SP120-1320-4S-B0
Modules	Up to 2 x SM05/10/12/15-2V-S	Up to 2 x SM05/10/12/15-2V-S	Up to 4 x SM05/10/12/15-2V-S
Nominal power / cabinet	30 kW	30 kW	60 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 m <sup>2</sup>	0.41 m <sup>2</sup>	0.59 m <sup>2</sup>



Model	CAB-SP120-E-4S-A1	CAB-SP180-E-6S-A0	CAB-SP240-E-8S-A0
Modules	Up to 4 x SM05/10/12/15-2V-S	Up to 6 x SM05/10/12/15-2V-S	Up to 8 x SM05/10/12/15-2V-S
Nominal power / cabinet	60 kW	90 kW	120 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 m <sup>2</sup>	0.41 m <sup>2</sup>	0.41 m <sup>2</sup>



**StratusPower  
SM25 / 31 -2V-M**

Up to  
**744 kW**  
per frame

**Ultra-compact  
model**



**Ultra-compact  
model**



<b>Model</b>	<b>CAB-SP625T-E-10M-LT-K</b>	<b>CAB-SP1250T-E-20M-LT-2K</b>
<b>Modules</b>	Up to 10 x SM25 / 31 -2V-M	Up to 20 x SM25 / 31 -2V-M
<b>Nominal power / cabinet</b>	310 kW	620 kW
<b>Dimensions h x w x d (mm)</b>	2282 x 656 x 900	2282 x 1312 x 900
<b>Footprint</b>	0.59 m <sup>2</sup>	1.18 m <sup>2</sup>



<b>Model</b>	<b>CAB-SP375(B/T)-E-6M-(LT/AV)-K</b>	<b>CAB-SP750(B/T)-E-12M-(LT/AV)-2K</b>
<b>Modules</b>	Up to 6 x SM25 / 31 -2V-M	Up to 12 x SM25 / 31 -2V-M
<b>Nominal power / cabinet</b>	186 kW	372 kW
<b>Dimensions h x w x d (mm)</b>	1982 x 656 x 900	1982 x 1312 x 900
<b>Footprint</b>	0.59 m <sup>2</sup>	1.18 m <sup>2</sup>



<b>Model</b>	<b>CAB-SP1125(B/T)-E-18M-(LT/AV)-3K</b>	<b>CAB-SP1500(B/T)-E-24M-(LT/AV)-4K</b>
<b>Modules</b>	Up to 18 x SM25 / 31 -2V-M	Up to 24 x SM25 / 31 -2V-M
<b>Nominal power / cabinet</b>	558 kW	744 kW
<b>Dimensions h x w x d (mm)</b>	1982 x 1968 x 900	1982 x 2624 x 900
<b>Footprint</b>	1.77 m <sup>2</sup>	2.36 m <sup>2</sup>

## Technical Datasheet

	Model	CAB-SP060-I080-2S-A1	CAB-SP120-E-4S-A1		
		CAB-SP060-I240-2S-A0	CAB-SP120-I320-4S-B0	CAB-SP180-E-6S-A0	CAB-SP240-E-8S-A0
General Data	Module type	SM05/10/12.5/15	SM05/10/12.5/15	SM05/10/12.5/15	SM05/10/12.5/15
	Nom. power per module [kVA = kW]	5 / 10 / 12.5 / 15	5 / 10 / 12.5 / 15	5 / 10 / 12.5 / 15	5 / 10 / 12.5 / 15
	Cont. overload per module [kVA = kW]	<b>6 / 12 / 15 / 18</b>	<b>6 / 12 / 15 / 18</b>	<b>6 / 12 / 15 / 18</b>	<b>6 / 12 / 15 / 18</b>
	Nom. power per frame [kVA = kW]	<b>30</b>	<b>60</b>	<b>90</b>	<b>120</b>
	Cont. overload per frame [kVA = kW]	<b>36</b>	<b>72</b>	<b>108</b>	<b>144</b>
	Number of modules per frame	1-2	1-4	1-6	1-8
	Max. power per system [kVA = kW]	900	900	900	900
	Topology / technology	<b>Online double conversion / DARA (Distributed Active Redundant Architecture)</b>			
Input	Rectifier	Input wiring	3 Ph + N + PE		
		Rated voltage	200/208/220Vac		
		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	168-360 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]		<b>14-30</b>			
Output	Inverter	Output wiring	3Ph+N+PE		
		Voltage	200/208/220Vac		
		Frequency	Tracking the bypass input (Online Mode); 50 / 60 Hz ± 0.05% (Battery Mode)		
		Output power factor	1		
		Efficiency	<b>97,6%</b>		
		Overload capacity	<b>Inverter: 124% continuous, 125% for 10min, 150% for 60 sec</b>		
	Short circuit capability	<b>Up to 3xIn - 400ms</b>			
Bypass	Efficiency	<b>99,4%</b>			
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-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	SM25/31-2V-M	SM25/31-2V-M	SM25/31-2V-M	SM25/31-2V-M
	Nom. power per module [kVA = kW]	25 / 31	25 / 31	25 / 31	25 / 31
	Cont. overload per module [kVA = kW]	<b>30 / 37</b>	<b>30 / 37</b>	<b>30 / 37</b>	<b>30 / 37</b>
	Nom. power per frame [kVA = kW]	186	372	558	744
	Cont. overload per frame [kVA = kW]	<b>223</b>	<b>446</b>	<b>669</b>	<b>892</b>
	Number of modules per frame	1-6	1-12	1-18	1-24
	Max. power per system [kVA = kW]	1860	1860	1860	1860
	Topology / technology	<b>Online double conversion / DARA (Distributed Active Redundant Architecture)</b>			
Input	Rectifier	Input wiring	3 Ph + N + PE		
		Rated voltage	200/208/220Vac		
		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	168 - 360 Vdc (the number of batteries can be selected )			
	Internal batteries (7/9Ah)	E: External			
	Type	Lead-Acid / NiCad / Lithium / Zinc / Salt / others...			
	Blocks [VRLA]	<b>14-30</b>			
	Charger (Amps per module)	<b>SM25-2V-M: 50A, SM31-2V-M: 60A</b>			
Output	Inverter	Output wiring	3Ph+N+PE		
		Voltage	200/208/220 Vac±1%		
		Frequency	Tracking the bypass input (Online Mode); 50 / 60 Hz ± 0.05% (Battery Mode)		
		Output power factor	1		
		Efficiency	<b>97,6%</b>		
		Overload capacity	<b>Inverter: 124% continuous, 125% for 10 min, 150% for 60 sec</b>		
		Short circuit capability	<b>Up to 3.5xIn - 400ms</b>		
	Bypass	Efficiency	<b>99,4%</b>		
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	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			

# centiel

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