EN

www.centiel.com

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™
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 **1 MW/m²**

Space-saving footprint

Green UPS · DARA TECH · SWISS MADE

Up to 99.9999999% (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 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

centiel

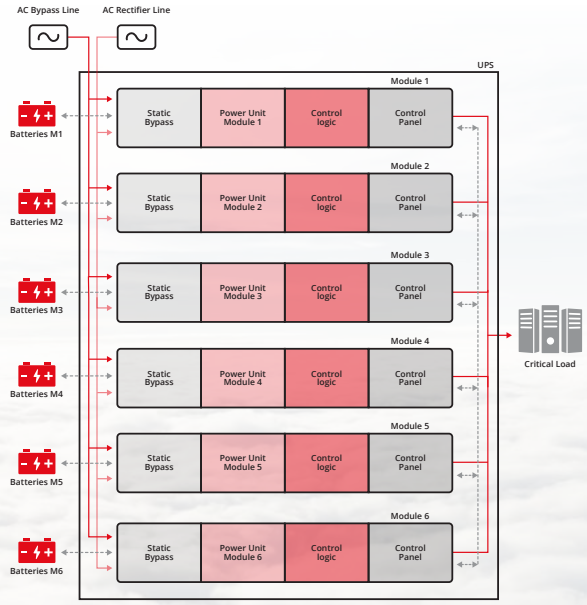
DARA
Take your power availability to the next level

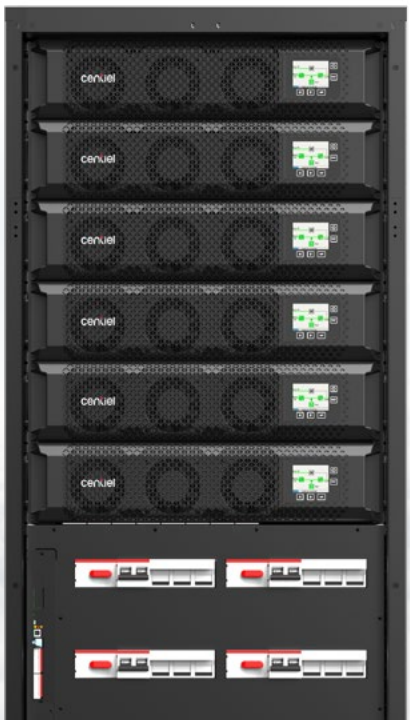
When it comes to availability, it's what's inside that counts

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





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)**, 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.

	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

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.

centiel

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

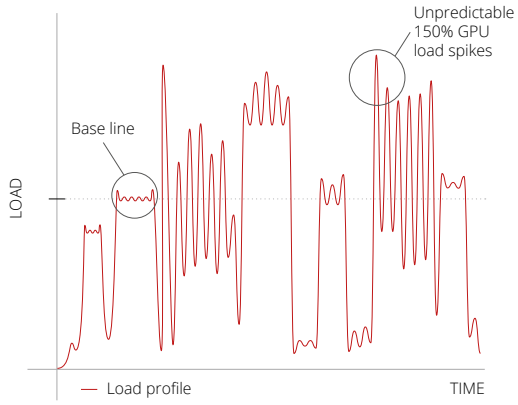
StratusPower is designed to handle the **unpredictable and intense power demands** of High-Performance Computing (**HPC**) and Artificial Intelligence (**AI**) workloads.

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.

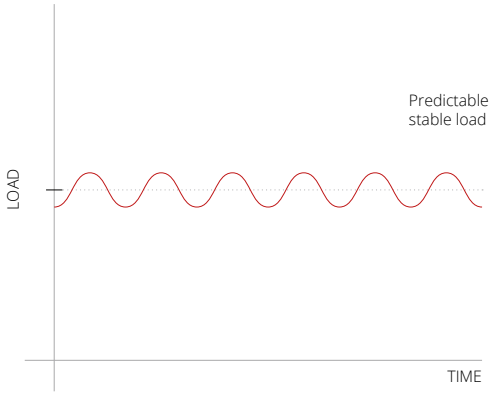
These sudden spikes in load can overwhelm traditional UPS systems, risking system failure and data loss. StratusPower's modular design is specifically designed to manage these unpredictable power surges with outstanding **continuous overload capability** helping keep critical infrastructure protected.

StratusPower is designed to support high-demand applications and help reduce the likelihood of costly disruptions.

GPU - HPC, AI computing workload



CPU - Traditional cloud computing workload

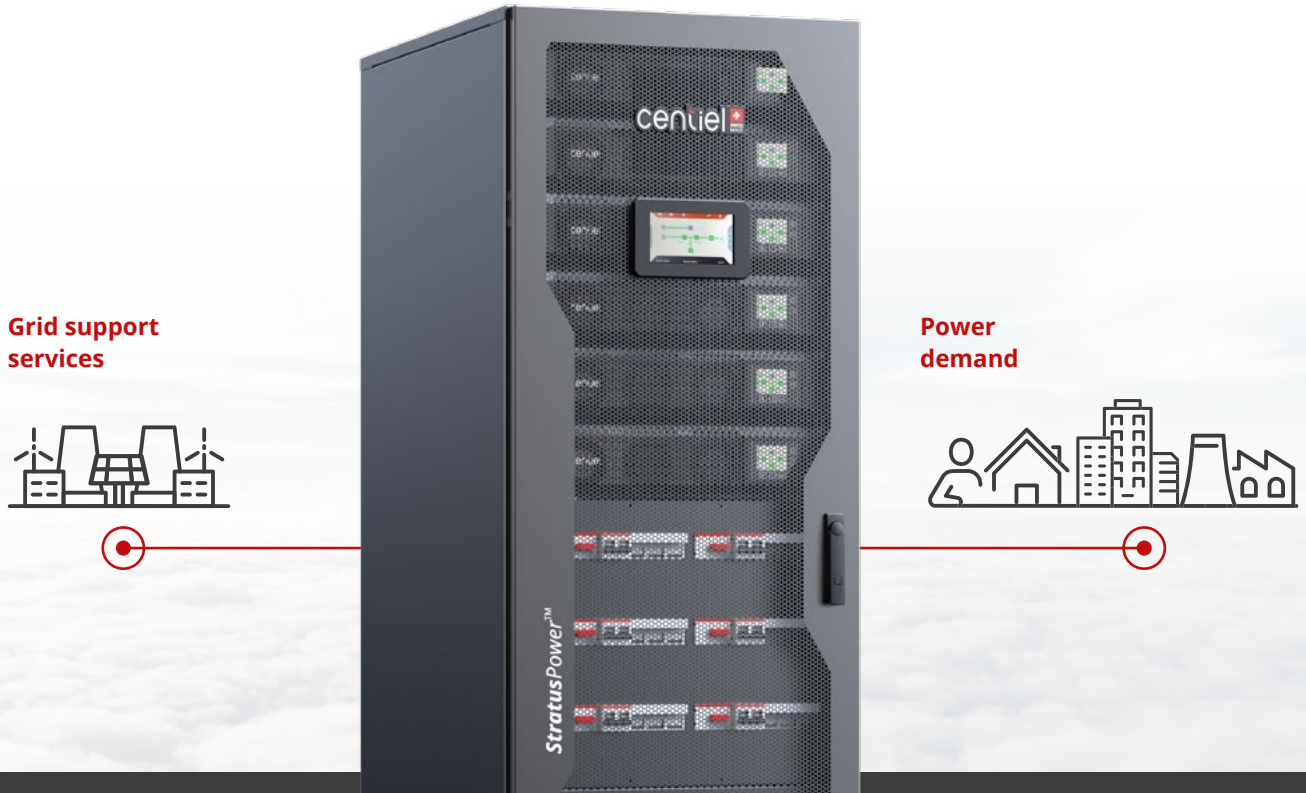


Future proof your design

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



centiel

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© 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 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.

Green UPS

Energy efficiency

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

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

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

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

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 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 m^2	0.41 m^2	0.59 m^2

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 m^2	0.41 m^2	0.41 m^2

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

centiel

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 / Zinc / 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				

BRC_SP_Rev5.0_02/25_EN

centiel

continuous power availability

www.centiel.com