

Designed
with the
future in
mind



centiel
continuous power availability

StratusPower™

Modular three-phase UPS IEC
50 kW to 3.75 MW





StratusPower™ The ultimate UPS for data center applications of various sizes

StratusPower is an innovative Uninterruptible Power Supply, specifically designed to meet the rigorous demands of today's IT infrastructure.

Swiss designed and manufactured, 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.



97,6%

VFI efficiency
Reliable semiconductor technology



No Single point of failure
99.9999999 % availability

Fully distributed
DARA – full redundancy

From 50 kW – 3.75 MW
In cabinets from 375 to 1.5MW

Low TCO
15 years caps and smart fans

Smart energy
peak-shaving, self-test

714 kW/m²
space-saving footprint

Fully connected
easy to read info in App, SNMP, Modbus, temperatures, alarms and full range of options available



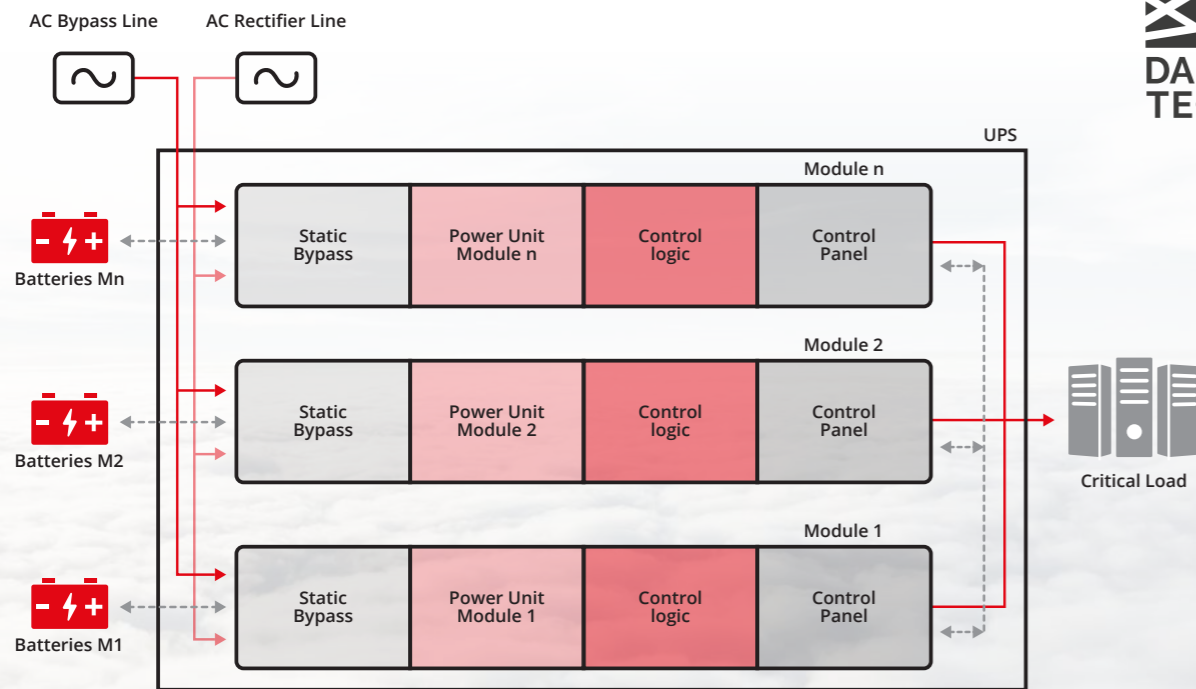
DARA Take your power availability to the next level

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 maximizes the mean time between failures (MTBF) and safeguards the power to your critical applications.

DARA's, Distributed Decision Making technology DDM© redundancy is taking to the next level where all modules collaborate to make critical decisions to secure your load remains energized. This technology enables the UPS to make distributed decisions that eliminate the single point of failure of a typical master-slave technology. DDM minimize downtime and safeguard critical loads.

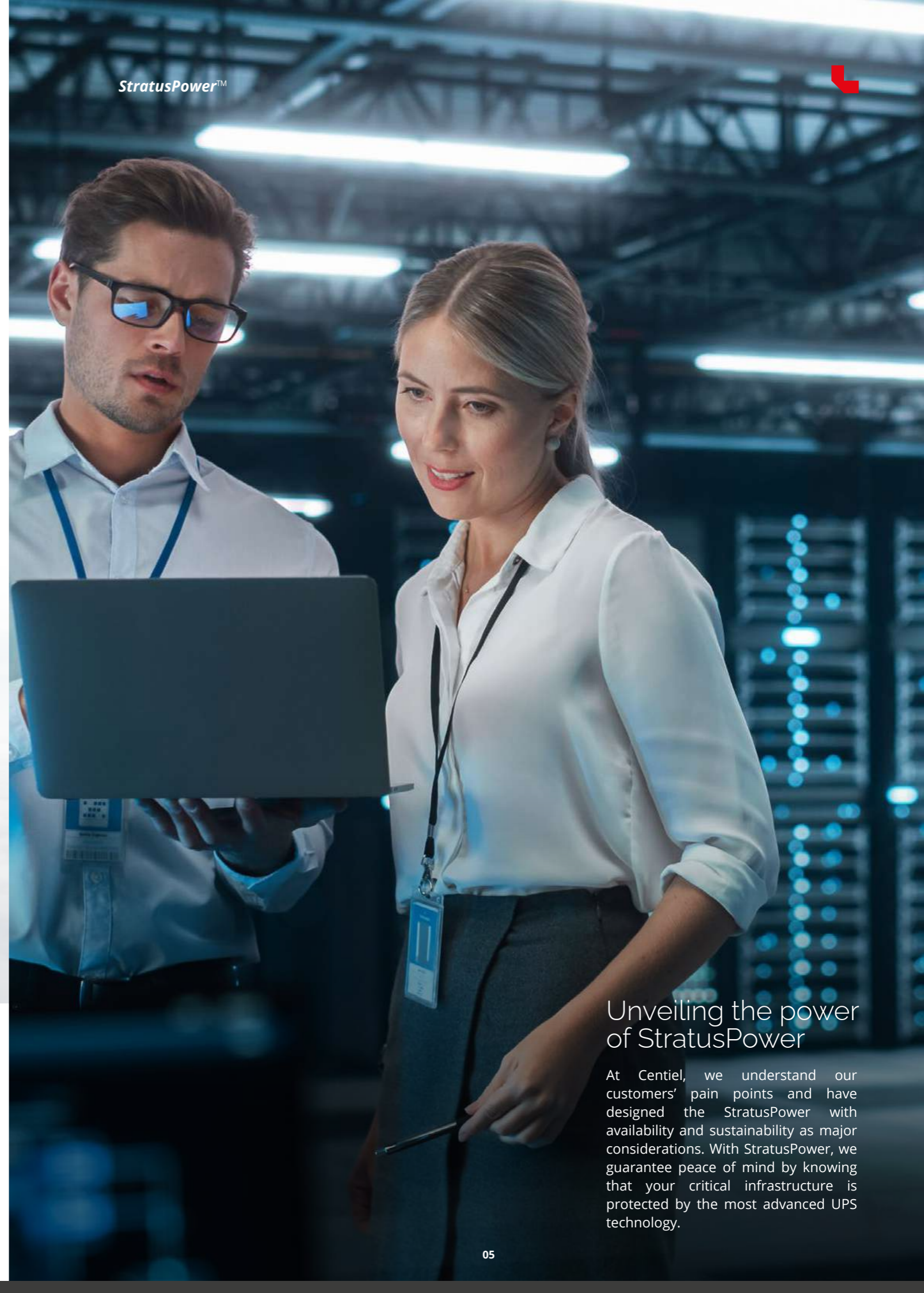
Maximized availability at module level



Mean time to repair (MTTR)

DARA's technology on the frame level has been designed to accommodate **non-intrusive maintenance** and to **minimize 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, avoid the need to removing modules, reducing the risk of human error.

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.



Advanced energy management

StratusPower provides **peak-shaving capabilities** to help businesses manage electricity usage and reduce costs. By utilizing 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.

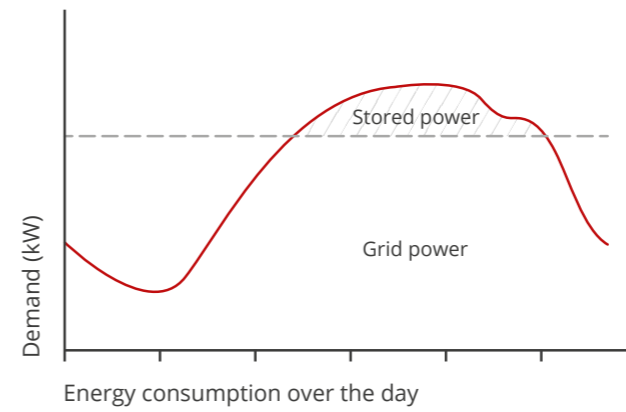
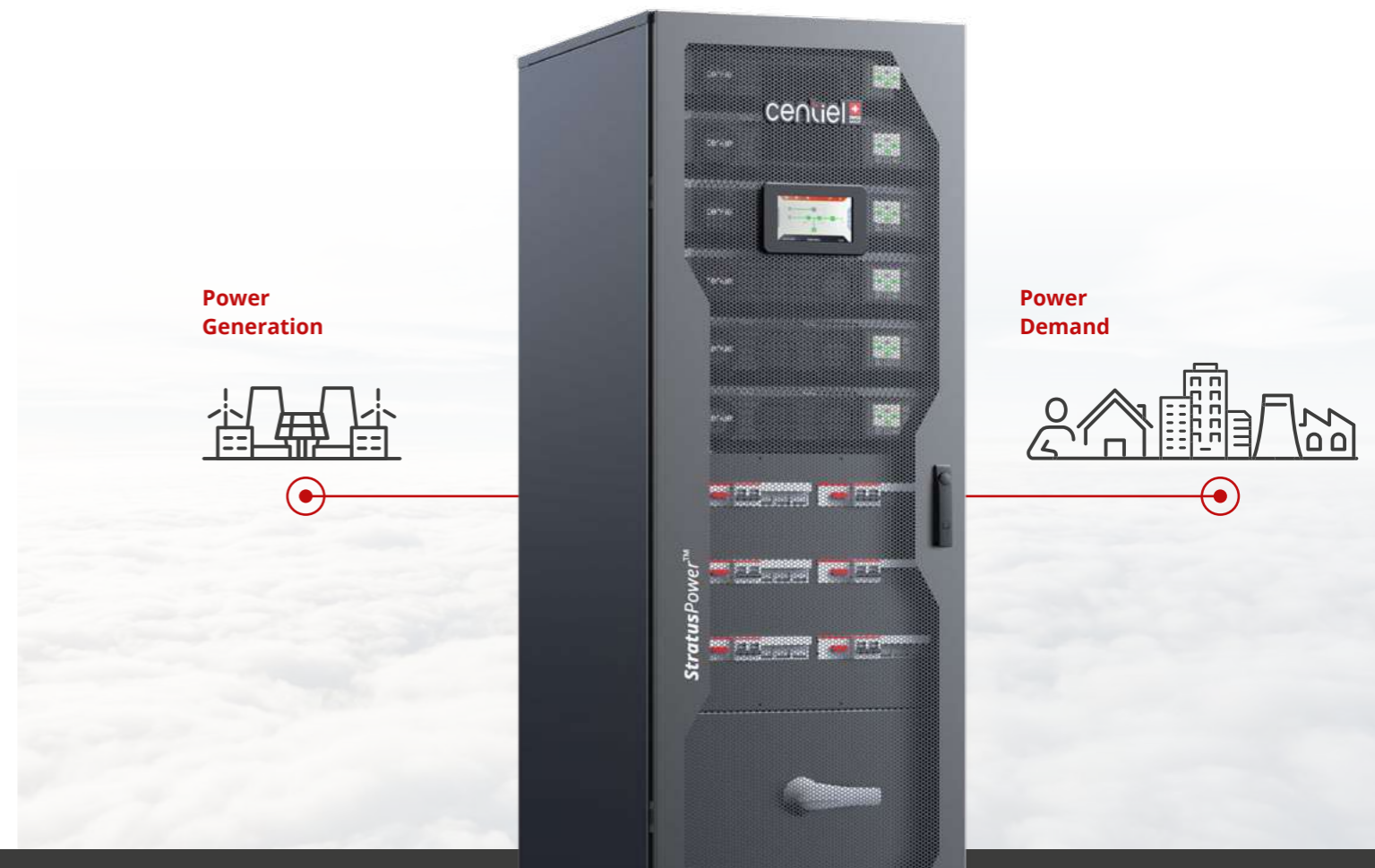


Fig.1: StratusPower's peak-shaving capabilities

At times of peak consumption, grid operators can demand a higher price for their power. Some of the energy stored locally in the UPS can be used at these times, reducing the amount taken from the grid. (However, UPS power reserves will never be allowed to drop below what is required to supply the critical loads.) UPS batteries can then be recharged using off-peak power. Exploiting local energy storage in this way not only cuts upfront energy costs for the user but also reduces the excess generation capacity the power supplier has to have on hand. Local UPS energy storage also supports the ongoing move away from centralized power suppliers to distributed, renewable generation and storage.

With the future in mind

Thanks to its **DCFlex®** technology, StratusPower is future-ready to connect to different power generation sources, **prepared to provide grid support in frequency and voltage and to manage the energy as it best fits the application**





DC Flex technology

Our unique DC Flex[®] 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. This technology allows you to reuse any kind of current DC supply reducing your project cost to the minimum.

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**.

DC Flex[®] 240 to 600VDC



Predictive remote health monitoring

Thanks to its computing capabilities and over 100+ measuring 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



Robust and reliable inverter design

The StratusPower also boasts a reliable, **widely proven semiconductor technology**, including a proprietary technology for inverter physical isolation in case of 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 StratusPower with an **extra safe-power of 24%**, ensuring a higher level of reliability and redundancy. Even if a redundant module fails, our advanced technology guarantees no single point of failure. With a continuous module operation capacity of 75 kW, the 750 kW StratusPower UPS transforms into a 900 kW powerhouse.

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

75kW UPS Module



Stay connected and in control with StratusPower

Connectivity is a critical aspect of any modern power solution. With a range of connectivity options, StratusPower provides users with real-time data and control, giving them peace of mind that their power solution is working optimally.



Powering Sustainability:
Helping your datacenter
to achieve CO₂ emissions target



Energy efficiency

Industry-leading voltage and frequency independence
(VFI) efficiency of **97.6%** Flat efficiency curve

Zero-waste

30+ Years of design life
15 years replaceable components
Proactive, non-intrusive maintenance

Net Zero by design

The UPS manufactured using ecofriendly materials and processes **95%** of the energy used for production testing is recycled

This ensures that StratusPower has **minimal impact on the environment**

Powering flexibility
The scalable solution

Up to
1.5 MW
per frame



Model	CAB-SP375(B/T)-E-K	CAB-SP750(B/T)-E-2K
Modules	Up to 6x SM50/60/62.5 kW	Up to 12x SM50/60/62.5 kW
Nom. power /cabinet	375 kW	750 kW
Dimensions h x w x d (mm)	1985 x 656 x 900	1985 x 1312x 900
Footprint	0.59 m ²	1.2 m ²



Model	CAB-SP1125(B/T)-E-K	CAB-SP1500(B/T)-E-2K
Modules	Up to 6 x SM50/60/62.5 kW	Up to 12x SM50/60/62.5 kW
Nom. power /cabinet	1,125 kW	1,500 kW
Dimensions h x w x d (mm)	1985 x 1968x 900	1985 x 2624x 900
Footprint	1.77 m ²	1.86 m ²

Scalability
up to
3.75 MW



Technical Datasheet

Model	CAB-SP375B-E-K	CAB-SP750B-E-K2	CAB-SP1125B-E-K3	CAB-SP1500B-E-K4
	CAB-SP375T-E-K	CAB-SP750T-E-K2	CAB-SP1125T-E-K3	CAB-SP1500T-E-K4
Module type	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
Cont. power per module [kVA = kW]	60/75	60/75	60/75	60/75
Nom. power per frame [kVA = kW]	375	750	1125	1500
Cont. power per frame [kVA = kW]	450	900	1350	1800
Number of modules per frame	1-6	1-12	1-18	1-24
Max. power per system [kVA = kW]	3750	3750	3750	3750
Topology / technology	Online double conversion / DARA (Distributed Active Redundant Architecture)			
General Data	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<0.8% for linear load, THDi<3% for nonlinear load		
Inverter	Input power factor	0,99		
	Input wiring	3 Ph + N + PE		
Input	Bypass Rated voltage	±30...±10% (Voltage) (According to VFI-SS-111)		
	Bypass Input frequency	50/60 ±2/4% (selectable)		
Battery	Battery Rated voltage	240 - 600 Vdc (the number of batteries can be selected)		
	Battery Internal batteries (7/9Ah)	E: External		
	Battery Type	Lead-Acid / NiCad / Lithium / Zink / Salt / others...		
	Battery Blocks[LA]	20-50		
Battery Charger (Amps per module)	50			
Output	Output wiring	3Ph+N+PE		
	Output Voltage	380/400/415 Vac±1%		
	Output Frequency	Tracking the bypass input (Online Mode); 50 / 60 Hz ± 0.05% (Battery Mode)		
	Output power factor	1		
	Output Efficiency	97,6%		
Inverter	Output Overload capacity	Inverter: 124% continuous, 125% for 15min, 150% for 120 sec		
	Bypass Efficiency	99,4%		
Environment	Operating temperature	0-40°C (No power derating)		
	Storage temperature	-40-70°C		
	Relative humidity	0%-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]	1985 x 656 x 900	1985 x 1312 x 900	1985 x 1968 x 900 1985 x 2624 x 900
	Certifications	EN/IEC 62040-1 EN/IEC 62040-2 EN/IEC 62040-3 CE RoHS		
	Communications	RS485, USB, Dry Inputs Dry contacts, Ethernet, Bluetooth		

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