

MASTERYS BC+ 208V

Uninterruptible Power Supply

From 10 to 60kVA



The solution for

Small & Medium Data Centers
Banks
E-Medical
Medical Services
Telecom & Media Infrastructure
Transport
Control Rooms



Socomec at the forefront of innovation

Socomec and UPS: more than 50 years of history

Critical equipment requires high quality energy which, in turn, depends upon a faultless - continuous - power supply.

Our Uninterruptible Power Systems (UPS), Static Transfer Systems (STS) and AC / DC converters make up the most innovative and comprehensive product portfolio in the industry, covering a wide range of applications and meeting the unique and exacting requirements of every sector.

The new three phase, medium power UPS MASTERYS range has been designed in our European centre of excellence.

Produced in our European manufacturing facility, our attention to detail and focus on quality – as well as customer service - have been at the heart of what we do for over 50 years.



Ensuring absolute business continuity

Maintaining the uptime of your critical applications is a major concern for facility managers.

Availability, reliability and quality as well as quick and risk-free maintainability of the power supply system are key factors in achieving this target.

Socomec factories join the digital world

Since 2014, Socomec has been investing to bring its manufacturing facilities in line with industry 4.0 standards.

Beyond lean manufacturing, the digitalisation of production means that we can ensure the delivery of a competitive offering with continuously improving service levels whilst also supporting the creation of more personalised products.



Expert services support

Our technicians' expertise and proximity are fundamental to ensure equipment reliability, durability and optimised performance. Socomec offers a comprehensive support service package:

- Commissioning
- On-site testing
- Certified preventive maintenance visits
- 24-hour call out and rapid on-site repairs
- Genuine spare parts
- Power quality and energy efficiency audits

MASTERYS BC+ 208V

UPS from 10 to 60kVA

Trustworthy power



The MASTERYS BC+ 208V has been designed with the Powersmiths' quality requirements. It is a very robust and high-quality three-phase UPS. Its double conversion topology, based on IGBT technology, prevents loads from any events. The MASTERYS BC+ 208V offers superior electrical performance, providing all systems with valuable energy protection. It is an unrivaled reliable UPS built with the very best, offering end-users efficient features. The small footprint, combined with the fully front-access design of the MASTERYS BC+ 208V, saves a lot of space in its locations.

EFFICIENCY

Efficient and cost effective solution

Combined with the highly efficient double conversion, the embedded eco-mode of the MASTERYS BC+ 208V will improve the system's efficiency. Moreover, an embedded active working mode option will enable the UPS to perform in eco-mode or double conversion, depending on statistics analyzing the power quality.

FLEXIBILITY

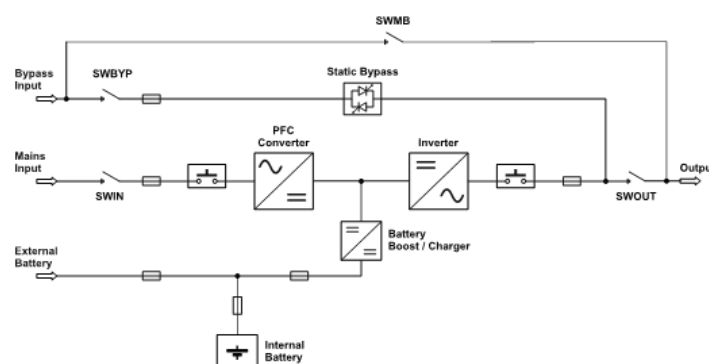
Flexible design

The two different designs, with either 1 (input) or 4 switches (input, bypass, maintenance bypass, load switch), offer a very robust topology, increasing the reliability of the system.



Front access maintenance

- Easy maintenance through brick concept
- True front access.



MASTERYS BC+ 208V

UPS from 10 to 60kVA

Unrivalled power performance



Certified performances

- Up to 95% efficiency in true online double conversion.
- Eco-Mode available to increase efficiency.



Compact Design

- Reduced footprint, saving valuable space.
- Two different designs: 10-30kVA and 40-60kVA.



Unrivalled reliability

- IGBT-based technology providing a power factor 1 from 40kVA.
- Long product life expectancy.



Fully rated system

- Overload certified in double conversion mode.
- Overload certified in Bypass mode.

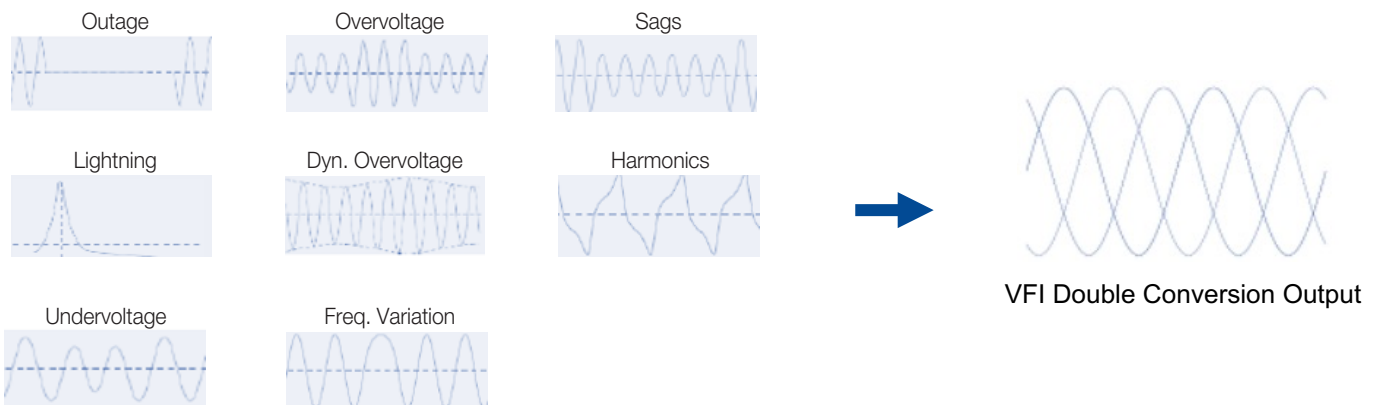


Long runtime engineered-in

- Several optimized choices for standard internal battery configuration.
- Increased internal battery density for reduced footprint and simplified installation.
- Internal basic autonomy available up to 30kVA - without additional external battery cabinets.

MASTERYS BC+ 208V designed for the quality and the availability of your power supply

The true Voltage Frequency Independent (VFI) design is the best solution for any critical load. It is the safest solution to prevent any disturbances from the installation. Any event coming from the source is handled by the rectifier and converted into DC energy. The rectifier then converts the energy into perfect AC curves at 60Hz. Double conversion is the most relevant technology to protect electrical installations.



MASTERYS BC+ 208V

UPS from 10 to 60kVA

User focused design

Battery

The MASTERYS BC+ 208V has 2 different designs. The first design, 10-30kVA, is capable of providing backup time from internal and external batteries. The second design, 40-60kVA, will be combined with external batteries. The technologies used are VRLA AGM/GEL/NiCd, ensuring the safety of the installation. The UPS integrates an embedded battery management system to track any events happening on the batteries and optimize the best performances.

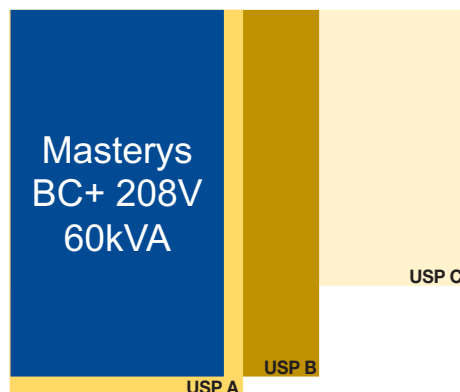
HMI



7" LCD touch screen with 3 languages embedded

Compact footprint

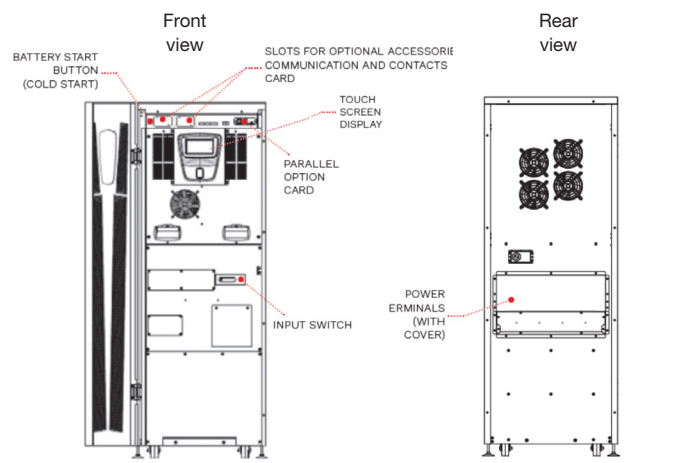
The market is requiring every installation to be more compact. That is why Powersmiths designed a very small footprint UPS for North American applications. The MASTERYS BC+ 208V is a very cost-effective equipment as it saves the end-user a lot of space in its electrical room. The UPS is manufactured with very robust components, guaranteeing the high reliability of the MASTERYS BC+ 208V.



60kVA UPS footprint in UL Market

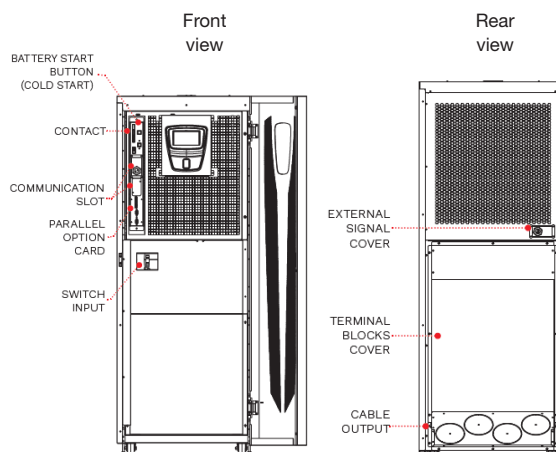
MASTERYS BC+ 208V

10-30kVA with 1 or 4 switches



MASTERYS BC+ 208V 40-60kVA

with 1 or 4 switches



MASTERYS BC+ 208V

Product specifications

Masterys BC+ 208V						
Sn [kVA]	10	20	30	40	50	60
Pn [kW]	9	18	27	40	50	60
Parallel configuration	Up to 6 units			Up to 4 units		
Input						
Rated voltage	208 V 3ph+N					
Voltage tolerance	167 V to 249 V					
Rated frequency	50/60Hz +/- 10%					
Input power factor / THDi	< 3%					
Output						
Rated voltage	208 V / 220 V 3ph+N					
Rated frequency	50 / 60 Hz					
Output voltage distortion (THDv)	< 3%					
Output voltage performance (load variation 0 - 100%)	Complies with IEC 62040-3 Class 1 (VFI-SS-111)					
Inverter overload capability (under rated conditions)	103% continuous / 110% 60 min / 125% 10 min / 150% 1 min					
Bypass overload capability (under rated conditions)	110% continuous / 125% 60 min / 150% 10 min / 200% 1 min					
Efficiency						
Double conversion VFI mode	Up to 95%					
Eco Mode	Up to 98%					
Battery						
Technologies	VRLA AGM/GEL/NiCd					
Configuration	Internal or External			External		
Environment						
Operating ambient temperature	32 - 104 °F / 0 - 40 °C					
Reative humidity	5-95% withoug condensing					
Dimensions and Weight						
Dimensions WxDxH	21.7x32.7x59.0'' / 550x830x1500mm			23.6x38.6x63.0'' / 600x980x1600mm		
Weight	324	324	340	591	613	613
Standard						
Saftey - feature	UL 1778 5th Edition CSA C22.2 107.3 -05 and Annex NNN, UL 60950-11, IEC 62040-3					
EMC	FCC Part 15 Subpart J class A					

Standard

System features:

- Dual input mains
- Internal maintenance bypass switch*
- Auxiliary main switch breaker*
- Output switch
- Power walk-in ramp for excellent compliance with generators
- UPS status led indicator
- Long life internal battery*

Communication features:

- UPS status led indicator
- Multilanguage graphic touch screen display
- 2 slots for communications
- USB port for maintenance
- Contact interface with 5x opto insulated Input and 4x Output relay

Options

Electrical options:

- Versions with other operating voltages 208V/480V, 480V/208V, 480V/480V
- Parallel configuration kit
- External battery cabinets
- External wrap around Bypass

Communication options:

- SNMP card / Embedded webserver
- Dry contacts

*on selected models

Socomec: our innovations supporting your energy performance

1 independent manufacturer

3,900 employees
worldwide

8 % of sales revenue
dedicated to R&D

400 experts
dedicated to service provision

Your power management expert



POWER
SWITCHING



POWER
MONITORING



POWER
CONVERSION



ENERGY
STORAGE



EXPERT
SERVICES

The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets
- Measurement of electrical parameters
- Energy management
- Energy quality
- Energy availability
- Energy storage
- Prevention and repairs
- Measurement and analysis
- Optimization
- Consultancy, commissioning and training

A worldwide presence

12 production sites

- France (x3)
- Italy (x2)
- Tunisia
- India
- China (x2)
- USA (x3)

30 subsidiaries and commercial locations

- Algeria • Australia • Belgium • Canada
- China • Dubai (United Arab Emirates)
- France • Germany • India • Indonesia • Italy
- Ivory Coast • Netherlands • Poland • Portugal
- Romania • Singapore • Slovenia
- South Africa • Spain • Switzerland • Thailand
- Tunisia • Turkey • UK • USA

80 countries

where our brand is distributed

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