

BROCHURE

# **MASTERYS BC+**

UPS from 10 to 160 kVA



When **energy** matters

 **socomec**  
Innovative Power Solutions

# Designed for easy integration and use

The new generation of MASTERYS BC+ UPS is a cost effective solution, comprising a wide range of **Power Factor 1** UPS (10-60 kVA), that are easy to configure and order, and has been designed to meet specific customer needs within SMEs, commercial, light industrial and public sector organisations.



*MASTERYS BC+*  
160 kVA  
External battery

*MASTERYS BC+*  
60-80 kVA  
Internal battery

*MASTERYS BC+*  
100-120 kVA  
External battery

*MASTERYS BC+*  
60-80 kVA  
External battery

▶ Flexible and cost-effective solution

▶ Easy to personalise

▶ Fast and professional installation

▶ Embedded digital technology

▶ Long autonomy engineered-in



**MASTERYS BC+**  
10-40 kVA  
Internal battery



**MASTERYS BC+**  
10-20 kVA  
Internal battery



**MASTERYS BC+**  
30-40 kVA  
Internal battery



**MASTERYS BC+**  
10-40 kVA  
External battery



**PF 1**  
available  
from 10 to 60 kW/kVA



**130,000+**  
units operating  
in the field



**500,000**  
tonnes of CO<sub>2</sub> emissions  
avoided



**Installation  
tutoring AR**  
application



## Expert services

Manufacturer's maintenance for trouble-free UPS operation

Online platforms

### *UPS selector*

Make the right UPS choice

Mobile apps

### *eWIRE*

Tutored UPS installation

The UPS Selector is the ideal interface to choose the UPS best suited to your specific applications.

Enter just a few pieces of information:

- Load value.
- Input and output voltage.
- Back-up time.
- Spare power capacity.

By entering just a few parameters, a comparative file is generated that presents three proposals to meet your needs. The Socomec Team will then respond with a quote within 24 hours.

Using Augmented Reality technology, eWIRE recognises the UPS to be installed by simply focusing it with the installer's smartphone camera.

eWIRE provides step-by-step instructions to correctly position the UPS, verify electrical protection and guide the cabling of both the UPS and battery.

Once the installation is complete, eWIRE sends a detailed report to the Socomec Services Centre to validate the installation report and authorise the commissioning to be performed by the Socomec Services team.



Selection

Installation

Our service contracts are tailored to customer needs, taking into account individual operational constraints, business processes and the unique level of criticality associated with specific applications. Whatever the issue, our internal escalation process gives us access to different levels of expertise to respond as quickly as possible. Our service teams are fully trained and provided with certified equipment in order to deliver the highest levels of expertise.

## How does it work?

### SILVER

The ideal plan for **preventive maintenance**: inspection visits, access to the Socomec office hours hotline (8x5) and response times within 24 hours.

### GOLD

Prevent and cure: this package includes everything from the Silver plan, and also covers the cost of responding to breakdowns.

### PLATINUM

The PLATINIUM plan includes spare parts.

For the most critical applications, the PLATINIUM+ plan comes with a 6 hour response time and 24/7 hotline.

## Mobile apps

### *SoLive UPS*

UPS status always in hand

## Cloud service

### *SoLink*

Socomec experts 24/7 UPS remote monitoring

- SoLive UPS enables the customer to monitor the system - in real-time, via smartphone - by connecting the UPS to the Socomec cloud platform.
- The mobile app automatically reports the latest status of the installed UPS, displays alarms and provides instant notifications of any unexpected events.
- Data provided:
  - Current status of the UPS.
  - Battery level.
  - Battery back-up time minutes.
  - UPS operating temperature.
- Contact your local agent to learn more about the availability of this service.

- Remote service availability by connecting your UPS to Socomec's cloud platform.
- Periodic UPS health-check and customer recommendations report.
- In the event of an anomaly, the system provides instant notification to the nearest Socomec Service Centre.
- A specialist Service Centre engineer will carry out a proactive diagnostic check by remotely accessing the working parameters.
- Troubleshooting and corrective actions can be taken immediately according to the Service Level Agreement.

## *Remote troubleshooting*

- Quick intervention via remote access.
- Immediate diagnosis and root cause analysis.
- Only one on-site visit is required.

Operation

Maintenance

# MASTERYS BC+

Trustworthy power



**Prime**

Trustworthy power

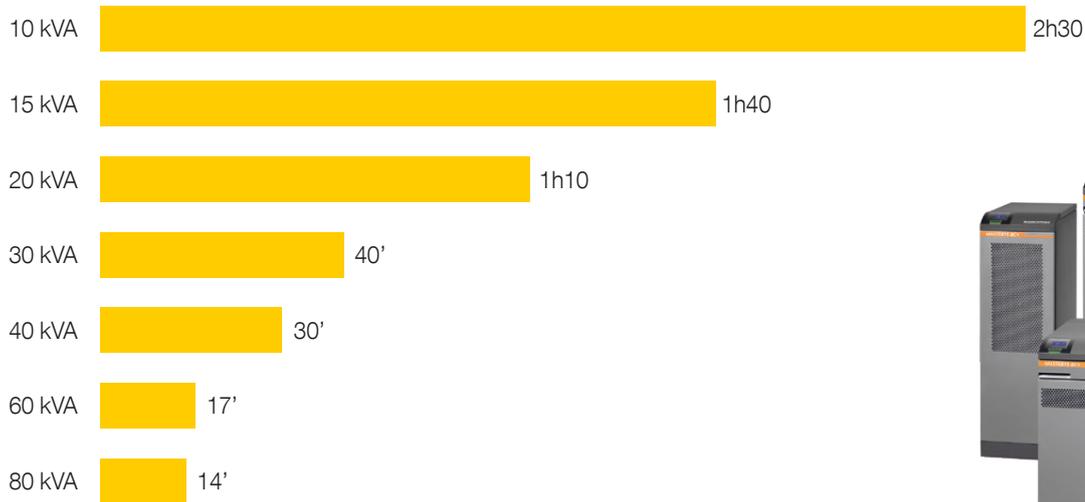
Reliable and cost effective protection to assure operational continuity.



## MASTERYS BC+: for all your applications

- SME IT networking / computer rooms.
- Public sector.
- Emergency services.
- Payment systems.
- Security controls.

## Long autonomy engineered-in



- Several optimised choices for standard internal battery configuration.
- Increased internal battery density for reduced footprint and simplified installation.
- Internal basic autonomy available up to 80 kVA - without additional external battery cabinets.
- High recharging current option for very long autonomy.

# MASTERYS BC+ Flex

## A system that fits every space

Socomec has designed an extremely flexible solution that can be placed and positioned in 3 different ways for maximum versatility: free-standing, wall-mounted and top mounted.

Choose the perfect configuration while on site, or at the last minute, with MASTERYS BC+Flex, the first device that adapts to the environment rather than requiring the environment to adapt to the device.



### Front access

Everything is accessible via the front of the system for quick and easy handling: switches, mimic panel and communication board.



### Rotation of the mimic panel

Positioned vertically or horizontally, the mimic panel can be rotated to enable the information displayed to be read easily.



### Self-adaptive according to size

With the UPS mounted on top of the battery cabinet, the unit adapts itself to the available width with the addition of side brackets.



MASTE 105

### Free-standing

Adaptable to the available space



MASTE 104

### Wall-mounted

Zero floor space



MASTE 106

### Top mounted

Easy built-in solution

# MASTERYS BC+

Easy to choose - Easy to customise

Customise your own solution using web-based tools, thanks to more than 20 options options to choose from, you can maintain compatibility with existing installations or introduce the flexibility that you need.

## Compatibility

to retrofit within existing installations

- Reduced footprint.
- Separate / common mains.
- Compatible with all grounding.
- Battery compatibility.

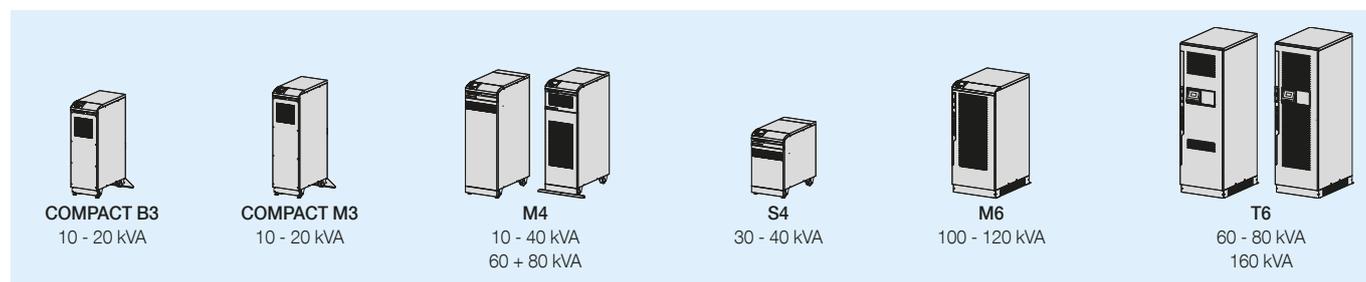
## Flexibility

to satisfy specific needs

- Additional charger.
- Internal backfeed.
- Remote panel.
- IP21.
- External manual bypass.



# Technical data



## MASTERY BC+

Sn [kVA]	10	15	20	30	40	60	80	100	120	160
Pn [kW]	10	15	20	30	40	60	72	90	108	144
Input / output 3/1	•	•	•	-	-	-	-	-	-	-
Input / output 3/3	•	•	•	•	•	•	•	•	•	•
Parallel configuration	up to 6 units									

### Input

Rated voltage	400 V 3ph+N (3 wire input also available on demand)
Voltage tolerance	240 V to 480 V
Rated frequency	40-70 Hz

### Output

Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (can be configured 380/415 V)
Rated frequency	50/60 Hz

### Efficiency

Double conversion VFI mode	up to 95%
Eco Mode	up to 99%

### Battery

Technologies	VRLA, NiCd
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### Internal back-up time (minutes)<sup>(1)</sup>

M4	101	66	46	28	20	-
S4	-	-	-	6	9	-
T6	-	-	-	-	-	13, 9, -

### Environment

Operating ambient temperature	up to +35 °C <sup>(2)</sup>
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### UPS CABINET

Dimensions W x D x H (mm)	M4	444 x 800 x 1400	-
	S4	444 x 800 x 800	-
	M6	-	600 x 855 x 1400
	T6	-	600 x 855 x 1930
Weight	depends on the number of batteries installed - contact us		
Degree of protection	IP20 (IP21 on demand)		
Colours	metallised grey E150HVR		
Standards			
Safety	IEC/EN 62040-1		
EMC	IEC/EN 62040-2		
Performance	EN 62040-3		
Environmental	full compliance with the RoHS EU directive		
Product declaration	CE, EAC, UKCA		

(1) @ 80% of rated power with load PF 0.9. (2) Max +50 °C conditions applied.

# Technical data

<i>MASTERYS BC+ Flex</i>					
Sn [kVA]	10	15	20	30	40
Pn [kW]	10	15	20	30	40
Input / output 3/1	•	•	•	-	-
Input / output 3/3	•	•	•	•	•
Parallel configuration	up to 6 units				
<b>Input</b>					
Rated voltage	3ph + N: 400 V (can be configured 380/415 V)				
Voltage tolerance	240 V to 480 V				
Rated frequency	40-70 Hz				
<b>Output</b>					
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (can be configured 380/415 V)				
Rated frequency	50/60 Hz				
<b>Efficiency</b>					
Double conversion VFI mode	up to 95%				
Eco Mode	up to 99%				
<b>Battery</b>					
Technologies	VRLA, NiCd				
Battery type	normal life				
Configuration	external batteries				
<b>Environment</b>					
Operating ambient temperature	up to +40 °C <sup>(2)</sup>				
<b>UPS CABINET</b>					
Dimensions W x D x H (mm)	442 x 830 x 305				
Weight	79 kg max <sup>(1)</sup>				
Display	3.5"				
Degree of protection	IP20 (IP21 on demand)				
Colours	metallised grey E150HVR				
<b>Standards</b>					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	EN 62040-3				
Environmental	full compliance with the RoHS EU directive				
Product declaration	CE, EAC, UKCA				

(1) According to the model. (2) Conditions apply.

# Technical data

<i>MASTERYS BC+ compact</i>			
Sn [kVA]	10	15	20
Pn [kW]	10	15	20
Input / output 3/1	•	•	•
Input / output 3/3	•	•	•
Parallel configuration	up to 40 units		
<b>Input</b>			
Rated voltage	400 V 3 ph+N (3 wire input also available on demand)		
Voltage tolerance	240 V to 480 V		
Rated frequency	40-70 Hz		
<b>Output</b>			
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (can be configured 380/415 V)		
Rated frequency	50/60 Hz		
<b>Efficiency</b>			
Double conversion VFI mode	up to 95%		
Eco Mode	up to 99%		
<b>Battery</b>			
Technologies	VRLA, NiCd		
<b>Internal back-up time (minutes)<sup>(1)</sup></b>			
B3	22	13	9
M3	35	22	15
<b>Environment</b>			
Operating ambient temperature	up to +35 °C <sup>(2)</sup>		
<b>UPS CABINET</b>			
Dimensions W x D x H	B3	370 x 770 x 1190	
	M3	370 x 770 x 1375 mm	
Weight	depends on the number of batteries installed - contact us		
Degree of protection	IP20 (IP21 on demand)		
Colours	metallised grey E150HVR		
<b>Standards</b>			
Safety	IEC/EN 62040-1		
EMC	IEC/EN 62040-2		
Performance	EN 62040-3		
Environmental	full compliance with the RoHS EU directive		
Product declaration	CE, EAC, UKCA		

(1) @80% of rated power with load PF 0.9. (2) Max +50 °C conditions applied.

# 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
- Optimisation
- Consultancy, commissioning and training

## A worldwide presence

**12** production sites

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

**30** subsidiaries and commercial locations

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

**80** countries

where our brand is distributed

### HEAD OFFICE

#### SOCOMECC GROUP

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**100** years  
OF SHARED ENERGY

**socomecc**  
Innovative Power Solutions