

# MASTERYS BC+

Designed for easy integration and use  
from 10 to 160 kVA

Prime



## The solution for

- > SME IT networking / computer rooms
- > Control rooms
- > Emergency service
- > Payment systems
- > Public sector
- > Security control

## Certifications and attestations



La serie MASTERYS BC+ dispone de la certificación TÜV SÜD en lo que respecta a la seguridad de los productos (EN 62040-1).

## Advantages



## e-WIRE



ORCODE 219 A GB

## SoLive UPS



## Expert services



[www.socomec.com/services](http://www.socomec.com/services)

## A flexible and cost-effective solution

- A compact range of standard product references with a variety of add-on options to adapt to every customer's site.
- Easy to configure for retrofit in existing installations.
- Equipped with manual bypass breaker in standard mode.

## Long back-up time engineered-in

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

## Embedded digital technology

- Digital Native UPS generation.
- IoT ready device for access to connected services.
- Easy integration in LAN/WAN and virtual environments.

## Fast and easy installation

- A wide range of UPS from 10 to 160 kVA with the same performance and functionality.
- Free eRULER online sizing tool to get dimensions and electrical information in advance before installation.
- Tutored UPS installation with eWIRE mobile app.
- Quickly get online product documentation by simply inputting the Serial Number.

## Fast delivery

- "Fast track manufacturing" option available for urgent projects or last-minute requirements.
- Fast delivery even for highly customised configurations thanks to easily combined options.

## User and environmentally friendly

- 25+ languages available in the mimic panel.
- Ergonomics designed to simplify usage.
- Anticipates eco-regulations and is RoHS compliant.
- Units provided with wheels for easy positioning.

## System features

- Dual input mains (above 30 kVA).
- Internal maintenance bypass switch.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Full compatibility with generators.
- Internal normal-life batteries up to 80 kVA.

## Remote monitoring and cloud services

- SoLink: Socomec 24/7 remote monitoring service connecting your installation to the nearest Socomec Service Centre.
- SoLive UPS: mobile app enabling the monitoring of the UPS systems from a smartphone.

## Standard communication features

- 3.5" multilanguage graphic display.
- 2 slots for communication options.
- USB port for downloading log file.
- Ethernet port for service purposes.

## Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or TCP.
- PROFIBUS gateway.
- BACnet/IP interface.
- NET VISION: professional WEB/ SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.
- IoT Gateway for Socomec cloud services and SoLive UPS mobile app.
- Remote touch-screen panel.

## System options

- 3-phase input without neutral.
- Internal backfeed isolation device.
- Common mains coupling bars.
- TN-C grounding system.
- ACS synchronisation system.
- IP21 degree of protection.
- Long life internal batteries up to 80 kVA.
- High capacity battery charger.

## Technical data

| MASTERYS BC+   |  |                   |                   |    |    |    |    |     |     |     |  |
|--|--|-------------------|-------------------|----|----|----|----|-----|-----|-----|--|
| Sn [kVA]   | 10   | 15                | 20                | 30 | 40 | 60 | 80 | 100 | 120 | 160 |  |
| Pn [kW]  | 10 <sup>(1)</sup>  | 15 <sup>(1)</sup> | 20 <sup>(1)</sup> | 27 | 36 | 54 | 72 | 90  | 108 | 144 |  |
| Input / output 3/1                                   | •  | •                 | •                 | -  | -  | -  | -  | -   | -   | -   |  |
| Input / output 3/3                                   | •  | •                 | •                 | •  | •  | •  | •  | •   | •   | •   |  |
| Parallel configuration                               | up to 6 units  |                   |                   |    |    |    |    |     |     |     |  |
| <b>INPUT</b>   |  |                   |                   |    |    |    |    |     |     |     |  |
| Rated voltage  | 400 V 3ph+N (3 wire input also available on demand)  |                   |                   |    |    |    |    |     |     |     |  |
| Voltage tolerance                                    | 240 V to 480 V   |                   |                   |    |    |    |    |     |     |     |  |
| Rated frequency                                      | 50/60 Hz ± 10%   |                   |                   |    |    |    |    |     |     |     |  |
| <b>OUTPUT</b>  |  |                   |                   |    |    |    |    |     |     |     |  |
| Rated voltage  | 1ph + N: 230 V (can be configured 220/240 V)<br>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>(2)</sup></b> |  |                   |                   |    |    |    |    |     |     |     |  |
| COMPACT B3   | 22   | 13                | 9                 |    |    |    |    |     |     |     |  |
| COMPACT M3   | 35   | 22                | 15                |    |    |    |    |     |     |     |  |
| M4   | 101  | 66                | 46                | 28 | 20 |    |    |     |     |     |  |
| S4   |  |                   |                   | 9  | 6  |    |    |     |     |     |  |
| T6   |  |                   |                   |    |    | 13 | 9  |     |     |     |  |
| <b>ENVIRONMENT</b>                                   |  |                   |                   |    |    |    |    |     |     |     |  |
| Operating ambient temperature                        | up to +35 °C   |                   |                   |    |    |    |    |     |     |     |  |
| <b>UPS CABINET</b>                                   |  |                   |                   |    |    |    |    |     |     |     |  |
| 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) PF 0.9 for long autonomy models S4 and M4.

(2) @80% of rated power with load PF 0.9.

## UPS dimensions (WxDxH)

