# MASTERYS BC+

## Designed for easy integration and use
### from 10 to 160 kVA

GAMME_754.PSD

### The solution for

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

### Certifications

The **MASTERYS BC+** series is certified by TÜV SÜD with regard to product safety (EN 62040-1).

### Advantages

95% EFFICIENCY

PF 0.9

RoHS COMPLIANT

### e-WIRE

e-WIRE

Download on the App Store

GET IT ON Google Play

QRCODE 219 A GB

### Connected services

www.socomec.com/tool

### Expert services

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 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.

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## System features

- Dual input mains (30-40 kVA).
- Internal maintenance bypass switch.
- Input mains switch breaker.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Power walk-in ramp for full compatibility with generators.
- Internal normal-life batteries.

## Standard communication features

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

## 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.
- Top cabling kit.
- Top ventilation kit.
- High capacity battery charger.

## Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or TCP.
- PROFIBUS / PROFINET 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.

## Remote monitoring and cloud services

- LINK-UPS: 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.

## Technical data

| | MASTERYS BC+ | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sn [kVA] | 10 | 15 | 20 | 30 | 40 | 60 | 80 | 100 | 120 | 160 |
| Pn [kW] | 9 | 13.5 | 18 | 27 | 36 | 54 | 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 | 50/60 Hz ± 10% | | | | | | | | | |
| **OUTPUT** | | | | | | | | | | |
| Power factor | 0.9 (according to IEC / EN 62040-3) | | | | | | | | | |
| 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 | | | | | | | | | |
| **EFFICIENCY (TÜV SÜD VERIFIED)** | | | | | | | | | | |
| Double conversion VFI mode | up to 95% | | | | | | | | | |
| Eco Mode | up to 99% | | | | | | | | | |
| **BATTERY** | | | | | | | | | | |
| Technologies | VRLA, NiCd | | | | | | | | | |
| Battery configuration | internal | | | internal - external | | | external | | | |
| **INTERNAL BACK-UP TIME (MINUTES)** [1] | | | | | | | | | | |
| Type B3 | 22 | 13 | 9 | - | | | | | | |
| Type M3 | 36 | 22 | 15 | - | | | | | | |
| Type M4 | 111 | 72 | 45 | 28 | 20 | - | | | | |
| Type S4 | - | | | 9 | 6 | - | | | | |
| Type T6 | - | | | | | 13 | 9 | - | | |
| **ENVIRONMENT** | | | | | | | | | | |
| Operating ambient temperature | up to +40 °C [2] | | | | | | | | | |
| **UPS CABINET** | | | | | | | | | | |
| Type B3 - Dimensions W x D x H (mm) | 370 x 770 x 1170 | | | - | | | | | | |
| Type M3 - Dimensions W x D x H (mm) | 370 x 770 x 1360 | | | - | | | | | | |
| Type M4 - Dimensions W x D x H (mm) | 444 x 800 x 1400 | | | | | - | | | | |
| Type M6 - Dimensions W x D x H (mm) | - | | | | | 600 x 855 x 1400 | | - | | |
| Type T6 - Dimensions W x D x H (mm) | - | | | 600 x 855 x 1930 | | | - | | 600 x 855 x 1930 | |
| Weight | depends on the number of batteries installed - contact us | | | | | | | | | |
| Display | 3.5" | | | | | | | | | |
| Degree of protection | IP20 (IP21 on demand) | | | | | | | | | |
| Colours | metallised grey E150HVR | | | | | | | | | |
| **STANDARDS** | | | | | | | | | | |
| Safety | IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2 | | | | | | | | | |
| EMC | IEC/EN 62040-2, AS 62040.2 | | | | | | | | | |
| Performance | IEC/EN 62040-3, AS 62040.3 | | | | | | | | | |
| Environmental | full compliance with the RoHS EU directive | | | | | | | | | |
| Product declaration | CE, RCM (E2376) | | | | | | | | | |

(1) Max BUT @ 80% of the load. (2) Conditions apply.

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