

MASTERYS BC+

Designed for easy integration and use
from 10 to 160 kVA

Prime



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.

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



e-WIRE



Connected services



www.socomec.com/tool

Expert services



www.socomec.com/services

System features

- Dual input mains (above 30 kVA).
- Internal maintenance bypass switch.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Power walk-in ramp for full compatibility with generators (except 10-20 kVA compact).
- 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.
- Long life internal batteries up to 40 kVA.
- High capacity battery charger.

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) 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 compact	22	14	10								-
Type M3 compact	38	24	17								-
Type M4	106	70	46	29	21					-	
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 910 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										
EMC	IEC/EN 62040-2										
Performance	EN 62040-3										
Environmental	full compliance with the RoHS EU directive										
Product declaration	CE, EAC										

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

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.