

MASTERYS BC+

Designed for easy integration and use

from 10 to 40 kVA and from 100 to 160 kVA



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



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Connected services



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Expert services



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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 40 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 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 (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.
- High capacity battery charger.

Technical data

MASTERYS BC+								
Sn [kVA]	10	15	20	30	40	100	120	160
Pn [kW]	9	13.5	18	27	36	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				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	-			-			-	
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	
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.

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.