

MASTERYS BC+

4th generation digital native general purpose UPS

from 100 to 160 kVA



The best protection with a cost-effective approach

- Online double conversion mode with an output power factor of 0.9.
- Best-in-class online efficiency.
- Versatile to operate in different electrical environments.
- Standard design with dual input mains to manage independent power sources.
- Standard design equipped with input, output and auxiliary mains switches.
- Internal manual bypass for easy maintenance with no power interruption.

Easy to integrate and user-friendly

- Compact, lightweight and easy to install.
- Low acoustic noise level.
- Modern aesthetics combined with ergonomics
- User-friendly multilingual interface with a graphic LCD display.

Extremely reliable, robust and durable

- Completely designed and manufactured in Europe.
- Certified seismic resistance.

Tailor-made - as standard

- Easy configurable for retrofit in existing installations.
- Catalogue base flexibility to meet specific needs.
- Fast delivery time for a fully personalized solution.

Native digital solution

- Ready for integration in LAN and Industry 4.0 ecosystem.
- IoT ready and remote cloud services.
- Multiprocessor intelligent product architecture.
- Product identification and configuration using standard QR codes.

The solution for

Commercial buildings

- Security control
- Payment systems
- > Emergency services
- > IT networking
- > Building automation

Smart manufacturing

- > Process control systems
- > Cloud service access

Certifications





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

Seismic resistent The MASTERYS BC+ units have successfully passed severe tests to verify resistance to withstand Zone 4 seismic events.

Advantages



A tutoring app for a simplified installation

- Augmented Reality technology
- OWRE
- Guided workflow on your smartphone
- Verification and validation by the Socomec Service Center



MASTERYS BC+ Three-phase UPS from 100 to 160 kVA

System features

- Dual input mains.
- Internal maintenance bypass switch.
- Input mains switch breaker.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Power walk-in ramp for excellent compliance with generators.

Standard communication features

- Graphical LCD multilingual display.
- 2 slots for communication options.
- USB port to download log file.
- Ethernet port for service purposes.

Technical data

			MASTERYS BC+	
Sn [kVA]		100	120	160
Pn [kW]		90	120	144
Input/output		3/3		
Parallel configuration		up to 6 units		
INPUT			up to o units	
Rated voltage		400 V 2nh	N /2 wire input also available o	n domand)
Voltage tolerance		400 V 3ph+N (3 wire input also available on demand) 240 V to 480 V		
Rated frequency		50/60 Hz + 10%		
OUTPUT			30/00 HZ ± 10%	
Power factor		0	0 (apporting to JEC/EN 62040	0)
		0.9 (according to IEC/EN 62040-3) 3ph + N: 400 V (can be configured 380/415 V)		
Rated voltage		50/60 Hz		
Rated frequency		± 2% (configurable for GenSet compatibility)		
Frequency tolerance Total output voltage distortion		± 2% (comparable for Gensel comparability)		
Overload Crest factor		125% for 10 minutes, 150% for 1 minute 3:1		
BYPASS			3:1	
			rated output voltage	
Rated voltage		rated output voltage		
Voltage tolerance		± 15% (configurable with from 10% to 20%) 50/60 Hz		
Rated frequency		± 2%		
Frequency tolerance EFFICIENCY			± 2%	
			up to OEN/	
Double conversion mode		up to 95%		
Always on mode			up to 99%	
ENVIRONMENT		from 0.90 to 0E	90 (from 1E 90 to 0E 90 for mo	(mum botton, life)
Operating ambient temperature		from 0 °C to +35 °C (from 15 °C to 25 °C for maximum battery life)		
Relative humidity		0% - 95% without condensation		
Maximum altitude		1000 m without derating (max. 3000 m) < 60 dBA < 65 dBA		
Acoustic level at 1 m (ISO 374 UPS CABINET	0)	< 60	uва	< 65 dBA
UPS CABINET	W		600 mm	
Dimensions		600 mm		
	D H	1400	855 mm	1000 mm
	н) mm	1930 mm
Weight		220 kg	232 kg	340 kg
Degree of protection Colours		IP20 Metallised Grey E150HVR		
STANDARDS			Wetailiseu drey ETSURIAN	
Safety EMC		IEC/EN	62040-1 AS 62040 1 1 AS 62	0/0 1 2
Performance		IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2 IEC/EN 62040-3, AS 62040.3		
Environmental		full compliance with the RoHS EU directive		
Seismic compliance		on demand, in accordance with the Uniform Building Code UBC-1997 Zone 4		
Product declaration		CE, RCM (E2376)		
		UE, RUW (E2370)		

System options

- External battery cabinet with normal or long-life VRLA batteries.
- High capacity battery charger.
- Alternative backup power technologies:
 NiCd batteries
 - Li-lon batteries
 - LI-ION Datteries
 - Li-Ion capacitors
- 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.
- Bypass redundant cooling.
- Seismic fixing kit.

Communication options

- Dry-contact, RS232/485 interfaces.
- MODBUS RTU.
- MODBUS TCP.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP, ethernet interface for UPS monitoring and remote automatic shutdown.
- Ethernet gateway for clould sevices.

Remote monitoring service

 LINK-UPS, remote monitoring service which connects your UPS to your Critical Power specialist 24/7.

Our dedicated Expert Services for UPS

We offer services to ensure your UPS highest availability:

- > Commissioning
- > On-site intervention
- Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- Maintenance packages
- Training



www.socomec.com/services