

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 is 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



- > Guided workflow on your smartphone
- Verification and validation by the Socomec Service Center











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.

System options

- External battery cabinet with normal or long-life VRLA batteries.
- · High capacity battery charger.
- Alternative backup power technologies:
 - NiCd batteries
 - Li-Ion batteries
 - Li-lon 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.

Technical data

			MASTERYS BC+		
Sn [kVA]		100	120	160	
Pn [kW]		90	108	144	
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		3ph + N: 400 V (can be configured 380/415 V)			
Rated frequency		50/60 Hz			
Frequency tolerance		± 2% (configurable for GenSet compatibility)			
Total output voltage distortion		<1%			
Overload		125% for 10 minutes, 150% for 1 minute			
Crest factor		3:1			
BYPASS					
Rated voltage		rated output voltage			
Voltage tolerance		± 15% (configurable with from 10% to 20%)			
Rated frequency		50/60 Hz			
Frequency tolerance		± 2%			
EFFICIENCY					
Double conversion mode		up to 95%			
Always on mode		up to 99%			
ENVIRONMENT					
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)			
Acoustic level at 1 m (ISO 3746)		< 60 dBA < 65 dBA		< 65 dBA	
UPS CABINET					
	W		600 mm		
Dimensions	D	855 mm			
	Н	1400) mm	1930 mm	
Weight		220 kg	232 kg	340 kg	
Degree of protection			IP20		
Colours		Metallised Grey E150HVR			
STANDARDS		'	-		
Safety EMC		IEC/EN	62040-1, AS 62040.1.1, AS 620	040.1.2	
Performance		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)			
		OL, HOW (LZOTO)			













