



MASTERYS BC

from 15 to 40 kVA

solutions for your business critical applications

Single-phase and three-phase UPS



The solution for

- > Small data centres
- > Telecommunications
- > Service Sector

Certifications



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

A complete, cost-effective solution

- True online double conversion mode for maximum availability and total protection.
- With its “clean” IGBT rectifier, **MASTERYS BC** significantly optimize the upstream infrastructure without over rating the supply system (i.e. generator sets, switches, cables, protection devices).
- Dual input mains allows you to manage independent power sources.
- Increased system availability placing two UPS in parallel for 1+1 redundancy.
- Internal manual bypass for easy maintenance without power interruption.
- Internal batteries providing more than 1 hour runtime.
- Multilanguage display.

Tailored to your environment

- Saves space with a reduced footprint and optimized cabinet size.
- Low noise level.
- Flexible battery solutions
- Compact, lightweight and easy to install.
- Extended battery life and performance with exclusive EBS battery charging management for increased battery life.

Standard electrical features

- Dual input mains.
- Internal manual bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

Electrical options

- External battery cabinet.
- External temperature sensor.
- Additional battery chargers.
- Galvanic isolation transformer.
- Parallel kit.
- ACS synchronization system.

Remote maintenance

- **T.SERVICE**: maintenance software for continuous 24/7 monitoring of the SOCOMEC UPS.

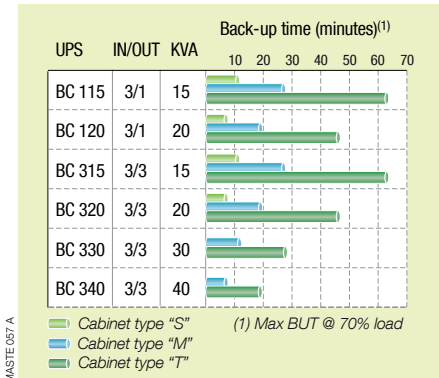
Standard communication features

- MODBUS/JBUS RTU.
- 2 slots for communication options.

Communication options

- Dry-contact interface.
- Remote mimic panel.
- MODBUS TCP.
- PROFIBUS.
- **NET VISION**: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

UPS and internal batteries



Technical data

MASTERYS BC 15-40				
Sn [kVA]	15	20	30	40
Pn [kW]	12	16	24	32
Input/output 3/1	•	•	-	-
Input/output 3/3	•	•	•	•
Parallel configuration	1+1 ⁽¹⁾			
INPUT				
Rated voltage	400 V 3ph + N			
Voltage tolerance	± 20% (up to -40% at 50% nominal load)			
Rated frequency	50/60 Hz ± 10%			
Power factor / THDI	0.99 / < 3%			
OUTPUT				
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) / 3ph + N: 400 V (can be configured 380/415 V)			
Voltage tolerance	static load ±1 % dynamic load in accordance with VFI-SS-111			
Rated frequency	50/60 Hz			
Frequency tolerance	± 2% (configurable from 1% to 8%)			
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% (configurable for Genset compatibility)			
EFFICIENCY				
Online mode @ 100% of load	up to 93.5%			
ENVIRONMENT				
Operating ambient temperature	from 0 °C up to +40° 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)	< 52 dBA		< 55 dBA	
UPS CABINET				
Dimensions W x D x H	444 x 795 x 800/1000/1400 mm			
Weight ⁽²⁾	105 kg	110 kg	135 kg	152 kg
Degree of protection	IP20			
Colours	RAL 7012			
STANDARDS				
Safety	EN 62040-1 (TÜV SÜD certified), EN 60950-1			
EMC	EN 62040-2			
Performance	EN 62040-3 (VFI-SS-111)			
Product declaration	CE			

(1) The standard model is prepared for a 1+1 redundant system. Upon request, it is possible to have connected up to 6 modules in a parallel system. (2) Without batteries.