



# MASTERYS BC

from 8 to 12 kVA

for critical IT and light industrial applications

Single-phase UPS



MASTE 049 C

## The solution for

- > Light industrial applications
- > Servers
- > Telecommunications
- > Medical and laboratories

## Technology

- > VFI "online double conversion"

### The ideal protection

- Simple and reliable power protection.
- Tailored for medium-sized businesses.
- Advantages of advanced technology.

### An excellent size/power/backup time ratio

- Ideal for sensitive professional applications.
- Suitable for protection in IT environments thanks to the internal back-up time and the possibility of installation in 19" rack cabinets.

### Tailored to your environment

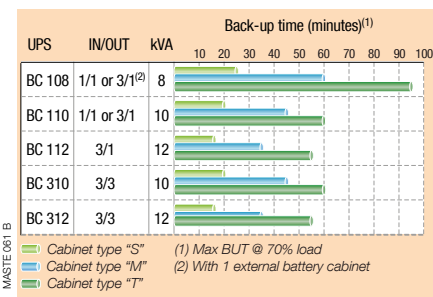
- Easy to install.
- Unique to the market with its highly compact size.
- Flexible back-up times: different back-up time configurations are available either within the UPS standard cabinet or by using taller UPS cabinets, without changing the floor space (W = 444, D = 795 mm).
- Increased system availability placing two UPS in parallel.
- Combi Concept: BC108 and BC110 models are compatible with single or three-phase inputs, which can be configured during installation.
- Fitted with a multilanguage LCD display.
- Separate rectifier supply and bypass networks.

## Technical data

MASTERYS BC 8-12			
Sn [kVA]	8	10	12
Pn [kW]	5.6	7	8.4
Input/output 1/1	● <sup>(1)</sup>	● <sup>(1)</sup>	-
Input/output 3/1	● <sup>(1)</sup>	● <sup>(1)</sup>	●
Input/output 3/3	-	●	●
Parallel configuration	up to 2 units		
<b>INPUT</b>			
Rated voltage	230 V (1ph + N), 400 V (3ph + N)		
Voltage tolerance	± 20 % (up to -35 % at 70 % nominal load)		
Rated frequency	50/60 Hz ± 10 %		
Power factor / THDI	0.99 / < 6 % <sup>(2)</sup>		
<b>OUTPUT</b>			
Rated voltage	230 V (1ph + N), 400 V (3ph + N)		
Voltage tolerance	± 1 % 1ph + N can be configured 208 <sup>(3)</sup> /220/230/240 V 3ph + N can be configured 360 <sup>(3)</sup> /380/400/415 V		
Rated frequency	50/60 Hz		
Frequency tolerance	± 2 % (configurable from 1 % to 8 % with generating set)		
Overload	125 % for 2 minutes, 150 % for 10 seconds		
Crest factor	3:1 (complying with IEC 62040-3)		
Power factor without derating	up to 0.9 leading (up to 0.7 leading for 10 minutes)		
<b>BYPASS</b>			
Voltage tolerance	230 V (1ph + N), 400 V (3ph + N) ± 15 % (configurable from 10 % to 20 %)		
Frequency tolerance	50/60 Hz ± 2 % (configurable from 1 % to 8 %)		
<b>EFFICIENCY</b>			
Online mode	up to 92 %		
Eco Mode	up to 98 %		
<b>ENVIRONMENT</b>			
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)	< 50 dBA		< 52 dBA
<b>UPS CABINET</b>			
Dimensions type S (short) W x D x H	444 x 795 x 800 mm		
Dimensions type M (medium) W x D x H	444 x 795 x 1000 mm		
Dimensions type T (tall) W x D x H	444 x 795 x 1400 mm		
Weight with standard batteries	155 kg	160 kg	175 kg
Degree of protection	IP20 (according to IEC 60529)		
Colours	RAL 7012, plastic front panels: dark grey		
<b>STANDARDS</b>			
Safety	EN 62040-1, EN 60950-1-1		
EMC	EN 62040-2		
Performance	EN 62040-3 [VFI-SS-111]		
Product declaration	CE		

(1) Combi: single or three-phase input configurations. - (2) 1/1 configuration, THDI < 25% for 3/1 configuration.  
(3) @ Pout = 90% Pnom.

## UPS and batteries



## Standard electrical features

- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

## Electrical options

- Dual input mains.
- Internal maintenance bypass.
- External maintenance bypass.
- External battery cabinet.
- Galvanic isolation transformer.
- Parallel kit.

## Standard communication features

- 2 slots for communication options.
- MODBUS/JBUS RTU (RS232/RS485).

## Communication options

- Dry-contact interface.
- Remote mimic panel.
- PROFIBUS.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management.