



# MASTERYS MC

from 10 to 80 kVA

solutions for your mission critical applications

Single-phase and  
three-phase UPS



## The solution for

- > Enterprise networks
- > Server rooms
- > Telecommunications
- > Medical and laboratories
- > Infrastructures

## Certifications



The **MASTERYS MC** series is certified by TUV SUD with regard to product safety (EN 62040-1).

## Complementary pages

- > Communication software
- > Architecture
- > External battery cabinet

## Tailored to your environment

- Multilanguage graphic display including Chinese language.
- Easy to install and to handle (fitted with castors).
- Scalable power or availability (using redundancy) by placing up to 6 units in parallel.
- Redundant battery strings.
- Flexible back-up times thanks to the different configurations available with internal or external batteries.
- ENERGY SAVER power management in parallel configuration.
- Separate rectifier supply and bypass mains for 3/1 models.

## For strategic applications

- Designed to protect:
  - mission critical applications,
  - production processes,
  - IT applications.

## Standard electrical features

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

## Electrical options

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

## Standard communication features

- MODBUS/JBUS RTU.
- Embedded LAN interface (web pages, email).
- 2 slots for communication options.

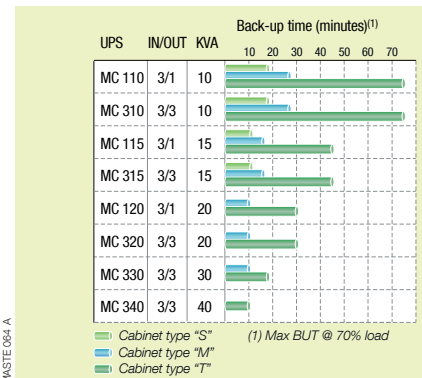
## Communication options

- 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.

## Remote maintenance

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

## UPS and internal batteries



## Technical data

MASTERYS MC 10-80							
Sn [kVA]	10	15	20	30	40	60	80
Pn [kW]	8	12	16	24	32	54 <sup>(1)</sup>	72 <sup>(1)</sup>
Input / output 3/1	•	•	•	-	-	-	-
Input / output 3/3	•	•	•	•	•	•	•
Parallel configuration	up to 6 units						
INPUT							
Rated voltage	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 / < 3%						
OUTPUT							
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) / 3ph + N: 400 V <sup>(1)</sup> (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%						
EcoMode	up to 98%						
Always On Mode	up to 96%						
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)	< 55 dBA			< 62 dBA			
UPS CABINET							
Dimensions W x D x H	444 x 795 x 800/1000/1400 mm					444 x 795 x 1400 mm	
Weight <sup>(2)</sup>	95 kg	105 kg	110 kg	135 kg	152 kg	180 kg	200 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) 0° C ÷ 35° C, conditions apply. (2) Without batteries.