

MASTERYS MC

from 60 to 80 kVA

for critical IT and light industrial applications

For strategic applications

- Designed to protect production processes and IT applications.
- Intelligent: LAN network interface, integrated as standard, for improved UPS supervision.

Tailored to your environment

- Easy to install.
- Easy to handle (fitted with castors).
- Flexible back-up times: wide range of configurations are available by using external battery cabinet (from 10' to 130').
- Scalable power or availability (using redundancy) by placing up to 6 units in parallel.
- Harmonic distortion reduced (THDI < 3%) via use of an IGBT rectifier.

- Graphic display.
- Redundant batteries: the battery packs are connected to each other in two distinct strings. If one battery pack in a string is not functioning, back-up time is still available from the remaining string.
- EXPERT BATTERY SYSTEM for battery management.
- ALWAYS ON MODE energy saving operation without upstream harmonic feedback.
- ENERGY SAVER power management in parallel configuration.
- GLOBAL SUPPLY SYSTEM generating set management.
- Protection against backfeed on the upstream network (internal or external)
- Separate rectifier supply and bypass networks.
- Internal maintenance manual bypass.
- Temperature control of the external battery cabinet.



MASTE 003 B 1 CAT

Your protection for

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



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



Range

Model	Input/output	kVA	Back-up time std
MC 360	3/3	60	16*
MC 380	3/3	80	10*

Back-up time at 70% of the load.
* using an external battery cabinet.

Technical data

kVA	60	80
kW	48	64
Input/output: 3/3	•	•
Parallel configuration	up to 6 units	
INPUT		
Nominal voltage	(3ph + N) 400 V ± 20% ⁽¹⁾ (up to -35% at 70% nominal load)	
Input frequency	50/60 Hz ± 10%	
Power factor/THDI	0.99/< 3%	
OUTPUT		
Output voltage	if 1ph + N 230 V ± 1% (can be configured 220/240 V) if 3ph + N 400 ± 1% ⁽¹⁾ (380/415 V configurable)	
Output frequency	50/60 Hz ± 2% (can be configured from 1% to 8% with generating set)	
Automatic bypass	nominal output voltage ± 15% (configurable from 10% to 20% with generating set)	
Overload	125% for 10', 150% for 60"	
Crest factor	3:1 (complying with IEC 62040-3)	
PF acceptable without de-rating	up to 0.9 lead. (up to 0.7 lead for 10 minutes)	
EFFICIENCY		
Global efficiency (On-line)	up to 93%	
Efficiency in ECO-MODE	up to 98%	
Efficiency in ALWAYS-ON MODE	up to 96%	
ENVIRONMENT		
Operating ambient temperature	0 °C to + 40 °C (15 °C to 25 °C for best battery life)	
Storage temperature range	- 5 to + 45 °C (15 °C to 25 °C for best battery life)	
Relative humidity	0% - 95% without condensation	
Maximum altitude	1000 m without de-rating (maximum 3000 m)	
Noise level (ISO 3746)	< 62 dB	
UPS CABINET		
Cabinet type T (Tall)	UPS (without battery)	
Dimesnions W x D x H (mm): 444 x 795 x 1400		
Max. B.U.T. ⁽²⁾	16'	10'
	up to 130'	up to 100'
Weight (kg)	200	210
Degree of protection	IP 20 (according to IEC 60529)	
STANDARDS		
Safety	IEC 62040-1 (TÜV SÜD certified), IEC 60950-1-1	
Performance and Topology	(EN) IEC 62040-3 [VFI-SS-111]	
EMC standard	IEC 62040-2 (2nd Edition) EN 50091-2	
Product certification	CE	

■ standard configuration - back-up time at 70% of the load.
(1) three-phase 220-230-240 V with 40-60-80 kVA on demand.
(2) Back-up time at 70% of the load.

Standard electrical features

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

Electrical options

- Dual input mains.
- External maintenance bypass.
- Long life batteries.
- External battery cabinet.
- External temperature sensor.
- Additional battery chargers.
- Galvanic isolation transformer.
- Parallel kit.
- **ACS** synchronization system.

Standard communication features

- Multilanguage graphic display.
- MODBUS/JBUS interface.
- Modem/SMS interface.
- Embedded LAN interface.
- 2 slots for communication options.

Communication options

- Remote panel.
- ADC interface (configurable voltage-free contacts).
- Profibus interface.
- **NET VISION**: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.
- JNC: shutdown client for workstations and servers for several operating systems.
- OPManger: centralized monitoring program for Windows and Linux via SNMP.

Remote maintenance

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