for critical IT and industrial applications

For strategic applications

- Designed to protect production processes and IT applications.
- Intelligent: LAN network interface, integrated as standard, for improved UPS supervision [Info. p. 105].

Tailored to your environment

- Easy to install.
- Easy to handle (fitted with castors).
- Unique to the market with its highly compact size.
- · Can even be installed in existing 19" rack cabinets (up to 30 kVA).
- Flexible back-up times: different configurations are available either within the standard UPS cabinet or by using taller UPS cabinets, without increasing floor space.
- · Scalable power or availability (using redundancy) by placing up to 6 units in
- Harmonic distortion reduced (THDI < 3%) via use of an IGBT rectifier [Info. p. 98].

- 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 [Info. p. 106].
- ALWAYS ON MODE energy saving operation without upstream harmonic feedback [Info. p. 99].
- ENERGY SAVER power management in parallel configuration [Info. p. 99].
- · GLOBAL SUPPLY SYSTEM generating set management [Info. p. 104].
- · Protection against backfeed on the upstream network (internal or external)
- · Separate rectifier supply and bypass networks for 3/1 models.
- Internal maintenance manual bypass.



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



Your protection > Industrial networks

> Servers

> Telecommunications

> Medical and laboratories





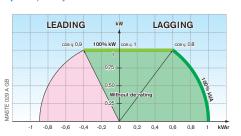
Range

Model	Input/output	kVA	Back-up time std
MC 110	3/1	10	18'
MC 310	3/3	10	18'
MC 115	3/1	15	11'
MC 315	3/3	15	11'
MC 120	3/1	20	10'
MC 320	3/3	20	10'
MC 330	3/3	30	10'
MC 340	3/3	40	10'
MC 360	3/3	60	12'*
MC 380	3/3	80	8'*

Back-up time at 75% of the load *using an external battery cabinet type W

Supply of lagging and leading loads

[Info. p. 97]



Technical data

kVA	10	15	20	30	40	60	80
kW	8	12	16	24	32	48	64
Input/output: 3/1	•	•	•				
Input/output: 3/3	•	•	•	•	•	•	•
Parallel configuration	up to 6 units						

INPUT

Nominal voltage	(3ph + N) 400 V \pm 20 % (1) (up to -35 % at 70 % nominal load)
Input frequency	50/60 Hz ± 10 %
Power factor/THDI	$0.99/<3\%^{(2)}$

OUTPUT

Output voltage	if 1ph + N 230 V \pm 1% (can be configured 220/240 V)
	if 3ph + N 400 $\pm 1\%^{(1)}$ (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 minutes/150 % for 60 seconds
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	1 000 m without de-rating (maximum 3 000 m)						
Noise level (ISO 3746)	< 55 dB < 62 dB						
WEIGHT (kg)							
Weight (with standard batteries)	190	195	240	315	415	200(3)	210(3)

DIMENSIONS W x D x H (mm) and BACK-UP TIMES in min.

Cabinet type S (Short) (444 x 795 x 800 mm)	18'	11'					
Cabinet type M (Medium) (444 x 795 x 1 000 mm)	27' 45'	16' 25'	10' 18'	10'			
Cabinet type T (Tall) (444 x 795 x 1 400 mm)	75' 100'	45' 65'	30' 45'	18' 28'	10'	UF (without	
Max. B.U.T. ⁽⁴⁾	up to	up to	up to	up to		12'	8'

STANDARDS

Safety	IEC 62040-1-1 (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
IP rating	IP 20 (according to IEC 60529), IP 21 optional

500' 300' 200' 130' up to 90' up to 130' up to 85'

- standard configuration back-up time at 75 % load.
- (1) three-phase 220-230-240 V with 40-60-80 kVA on demand.
- (2) for source THDV < 2 % and nominal load.
- (3) batteries fitted in an external cabinet.
- (4) Back-up time.

Standard equipment

- RS 232/485 serial port.
- Additional RS 232 interface.
- Embedded LAN interface.
- 2 slots for interfaces.

Accessories

- Parallel kit.
- Power share (load shedding output).
- External maintenance bypass.
- Extended back-up time.
- Additional battery charger.
- Isolation transformer.
- ACS synchronisation system on 3/3 version [Info. p. 70 and 74].

Communication options

- Remote access panel.
- ADC interface (configurable dry contacts).
- GSS interface (generating set management).
- UNI VISION PRO software to manage connected applications and control automatic shutdowns. Serial cable included [Info. p. 93].
- **NET VISION** interface WEB/SNMP manager for connecting the UPS to the Ethernet network [Info. p. 93].

Remote maintenance

• T.SERVICE for continuous monitoring of MASTERYS via the SOCOMEC UPS maintenance service [Info. p. 110].

