

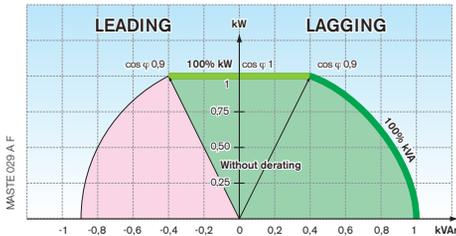
Three phase UPS

MASTERYS MC

from 100 to 120 kVA
for critical IT application

Cutting edge design

- Designed with the last available technology.
- Smart topology for reduced switching losses.
- Leading edge power technology.



High efficiency

- High efficiency (>95%), low heat dissipation.
- Sinusoidal current absorption, low conductor heat dissipation and no plant oversize.
- Environmental friendly: maximises the energy use.

Low Total Costs of Ownership

- High efficiency.
- Input power factor close to one.
- Wide input voltage range.
- High performances with "non linear" loads.
- Reduced footprint.
- Easy frontal access.
- Reduced installation costs.
- Reduced maintenance costs.
- User friendly.
- Frontal access and wall backed solution.
- Smart battery management (EBS).

Availability

- Cutting edge technology
IGBT rectifiers and inverter with multiprocessor DSP control.
- Parallel-Redundant
Masterys MC can be used in parallels of two units for increasing the supply redundancy.
- Enhanced overload capacity
The high UPS short circuit capability allows for enhanced downstream fault discrimination.
- Genset compatibility
Wide range of input voltage and frequency for full compatibility with genset operation.
Full communication compatibility between Genset and UPS via GSS interface.
- Back feed protection
Arrangement for back feed protection according to EN 62040-1-1, internal or external.

Fault tolerance and high reliability

- Modularity for 1+1 redundancy.
- Intelligent component cooling.
- Limited thermal stress and longer life of the components.
- Multiprocessor control.
- Fully suitable together with STS architectures.

Easy, user friendly operation

- Intuitive graphical LCD display.
- Embedded LAN.
- 2000 events logs.
- Built-in separate input mains.

Fully customisable

- Input and/or output transformer.
- Battery cabinets (normal life-long life).
- Batteries in rack with wall mounted protection.
- Additional battery charger.
- Internal back feed protection.
- Lighting surge arrester (high level of immunity).
- Remote mimic panel.

Robustness

- Steel frame.



Your protection for

- > Data centres
- > Industrial network
- > Telecommunication
- > Medical and laboratories



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Battery

EBS – Expert Battery System

This adaptive system manages the battery charger that responds to the working temperature to preserve the battery lifetime and reduce operating costs.

It allows:

- Real time calculation of the remaining backup time.
- Real time measurements concerning the battery (voltage, battery current and battery capacity).
- Periodical test for monitoring battery efficiency and for programming preventive or curative maintenance.

Communication

Advanced dry contact interface (ADC)

A programmable interface for information processing.

- 3 insulated inputs.
- 4 change-over contacts.

Embedded LAN interface

These UPSs adopt as standard a network connection for remote control of the UPS.

The main specifications and functions are as follows:

- 10 Mb Ethernet connection (RJ45),
- visual supervision of the UPS via a Web browser,
- operational statistics,
- notification of faults via e-mail.

Physical communication layer

- 2x RS 232 /485 serial port.
- 4 slots for interfaces.

NETVISION

Direct connection to the Ethernet

With **NETVISION** the UPS behaves exactly like a networked peripheral, it can be managed remotely and allows the shutdown of server-based workstations.

The main specifications and functions are as follows:

- 10/100 Mb Ethernet connection,
- UPS monitoring screen via a Web browser,
- remote shutdown of workstations,
- notification of faults via e-mail,
- UPS management via SNMP protocol,
- monitoring of the operating environment (optional EMD temperature and humidity sensor),
- suitable for remote maintenance service **T.SERVICE**.

GSM Modem

It allows telephone connection and SMS communication.

It is suitable for remote maintenance service **T.SERVICE**.

GSS - Communication with generator sets

Global Supply System ensures the complete communication and integration of the UPS with the generator sets.

Technical data

Sn [kVA]	100	120
Pn [kW]	90	108
INPUT		
Rated Voltage	400V 3ph+N	
Voltage tolerances	±20% without derating, -40% with 50% of Pn	
Input frequency	50/60 Hz ± 10%	
Power factor / THDI >	0.99 / < 3%	
OUTPUT		
Voltage	400V 3ph+N ±1% (380/415 configurable)	
Tolerances in dynamic load conditions	Static ±1% - Dynamic VFI-SS-111 compliant	
Frequency	50/60 Hz ± 2% (configurable from 1% to 8% with generating set)	
Voltage total harmonic distortion (on non linear load)	< 3%	
Crest factor	3:1	
EFFICIENCY		
On-line mode	95%	
ECO-MODE	98%	
ENVIRONMENT		
Operating ambient temperature	0 °C to + 40 °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)	
Sound level (ISO 3746)	<65 dB(A)	
Weight	360 kg	
FRAME		
Dimensions (W x D x H) [mm]	700x800x1930	
Degree of protection	IP 20 (IP 30 optional)	
Colour	RAL 7012, Silver grey frontal door	
STANDARDS		
Safety	EN62040-1-1, EN60950-1-1	
Performance	EN62040-3 (VFI-SS-111)	
EMC standard	EN62040-2 (2nd edizione)	
Product declaration	CE	
IP rating	IEC 60529	

HEAD OFFICE

SOCOMEK GROUP

S.A. SOCOMEK capital 11 014 300 € - R.C.S. Strasbourg B 548 500 149
B.P. 60010 - 1, rue de Westhouse - F-67235 Benfeld Cedex

SOCOMEK UPS Strasbourg

11, route de Strasbourg - B.P. 10050 - F-67235 Huttenheim Cedex- FRANCE
Tel. +33 (0)3 88 57 45 45 - Fax +33 (0)3 88 74 07 90
ups.benfeld.admin@socomec.com

SOCOMEK UPS Isola Vicentina

Via Sila, 1/3 - I - 36033 Isola Vicentina (VI) - ITALY
Tel. +39 0444 598 611 - Fax +39 0444 598 622
info.it.ups@socomec.com

www.socomec.com

SALES MARKETING AND SERVICE MANAGEMENT

SOCOMEK UPS PARIS

95, rue Pierre Grange
F-94132 Fontenay-sous-Bois Cedex - FRANCE
Tel. +33 (0)1 45 14 63 90 - Fax +33 (0)1 48 77 31 12
ups.paris.dcm@socomec.com

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