

MASTERYS MC

from 100 to 120 kVA
for critical IT application

Low Total Costs of Ownership

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

Cutting edge design

- Designed to work with latest-generation servers.
- Smart topology for reduced switching losses.
- Precise, interference-free load supply (Online double conversion with DSP digital control).

Availability

- Uptime maximisation.
- Redundant parallel.
- Enhanced overload capacity.
- The high UPS short circuit capability allows for enhanced downstream fault discrimination.
- Genset compatibility:
Wide range of input voltage and frequency and full communication with Genset via GSS interface.
- Intelligent component cooling.
- Limited thermal stress and longer life of the components.
- Multiprocessor control.
- Fully suitable together with STS architectures.

Easy, user friendly operation

- User friendly.
- 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).
- Additional battery charger.
- Internal or external back feed protection.
- Remote mimic panel.
- Temperature control of the external battery cabinet.

Robustness

- Steel frame.
- High overload capacity in all operating conditions.



MASTE 060 A



The MASTERYS MC 100-120 kVA series is certified by TUV SUD with regard to product safety (EN 62040-1).

MASTERYS MC efficiency is verified by TUV SUD.

Your protection for > Data centers
> Telecommunications
> Service Sector

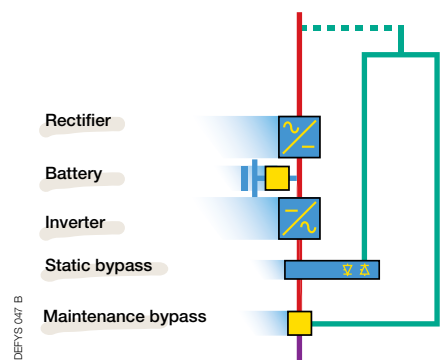


UPS and batteries

Model	Input/output	KVA	Back-up time std	Battery cabinet	
				Size (mm)	Weight (kg)
MC+100	3/3	100	15'	800 x 830 x 1930	1150
MC+120	3/3	120	11'	800 x 830 x 1930	1150

Back-up time at 70% of the load.

Common or separate input



Technical data

Sn (kVA)	100	120
Pn (kW)	90	108
INPUT		
Rated voltage	400V 3ph + N	
Voltage tolerances	±20% without declassing, -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)	
Voltage tolerance	static load ±1% dynamic load in accordance with VFI-SS-111	
Frequency	50/60 Hz ±2% (configurable with generator from 1% to 8%)	
Automatic bypass	rated voltage output ±15% (configurable with generator from 10% to 20%)	
Total harmonic voltage distortion	< 1% with linear load/< 3% with nonlinear load	
Overload @ p.f. 0.8	125% for 10' / 150% for 60"	
Overload @ p.f. 0.9	125% for 5' / 150% for 30"	
Crest factor	3:1 (in accordance with (EN) IEC 62040-3)	
EFFICIENCY		
Online mode (TÜV SÜD verified)	95.8% @ 50% of load 95.5% @ full load	95.9% @ 50% of load 95.2% @ full load
ECO MODE	98%	
ENVIRONMENT		
Operating ambient temperature	0 °C to + 40 °C (from 15 °C to 25 °C for maximum battery life)	
Relative humidity	0% - 95% without condensation	
Maximum altitude	1000 m without declassing (max. 3000 m)	
Noise level (ISO 3746)	< 65 dB (A)	
UPS CABINET		
Dimensions W x D x H (mm)	700 x 800 x 1930	
Weight (kg)	400	
Degree of protection	IP 20	
Colour	RAL 7012, silver grey frontal door	
STANDARDS		
Safety	EN 62040-1 (TÜV SÜD certified), EN 60950-1-1	
Performance	EN62040-3 (VFI-SS-111)	
EMC standard	EN62040-2	
Product certification	CE	

Standard electrical features

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

Electrical options

- 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.
- 4 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 shut-down management of several operating systems.
- JNC: shutdown client for workstations and servers for several operating systems.
- OPManager: centralized monitoring program for Windows and Linux via SNMP.

Remote maintenance

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