

Single-phase  
and three-phase  
UPS

# MASTERYS

from 8 to 120 kVA

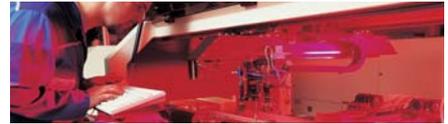
the solution you have been waiting for

Uninterruptible Power Solutions,  
for critical IT and industrial applications.



> **Business Critical applications** [\[p. 36\]](#)

**MASTERYS BC** provides ideal protection for medium-sized businesses: your company is kept safe protected by the same advanced technology seen across our range.



> **Mission Critical applications** [\[p. 38\]](#)

**MASTERYS MC** easily adapts to the protection of those critical applications which, if not running, would compromise the operation of the entire company.



> **Industrial Processes applications** [\[p. 42\]](#)

**MASTERYS IP** represents a total protection for your industrial processes. A compact solution that also integrates the isolation transformer and batteries in a single UPS cabinet.



> **e-business Applications** [\[p. 44\]](#)

**MASTERYS EB** is the solution for your constantly-evolving business: power continuity is guaranteed by an extendable, modular system, with no single point of failure.



### More security

#### An architecture with independent microprocessors

Your business will benefit from a modular system with no single point of failure.

Redundancy of its components ensures that the high quality power you require is available.

We have also introduced DSP multiprocessor architecture: one multiprocessor controls the power, a second controls the operation logic and a third manages communication (graphic display, remote access box, LAN network).

The fact that these components are independent guarantees the continuous operation of the UPS system.

### More economical

#### A low distortion rate rectifier

The IGBT rectifier has a raised power factor (PF: 0.99 lagging) and uses a sinusoidal current (THDI < 3%).

And now, with the innovative ALWAYS-ON MODE, the user can benefit from economical operation by using the network, avoiding harmonic feedback caused by non-linear loads on the network.

The investment made in terms of infrastructure (generator and distribution) will be cost-effective.

### More flexibility

#### MASTERYS EB: the UPS that grows with your company

Businesses in our current climate are expected to invest in innovative solutions if they wish to stay competitive.

SOCOMECS UPS offers its clients the total flexibility of **MASTERYS EB**, adaptable to all their various architectures and installations. It can change with your business. With its two types of power module, **MASTERYS** provides truly modular protection which you can adapt and size to your needs.

### More intelligent

#### What could be better than a system capable of communicating with you?

**MASTERYS MC**, **IP** and **EB** include a LAN network interface as standard. It makes operation of the UPS easier, delivering an overview of all data to users.

**MASTERYS** can also send diagnostic reports and alarms autonomously via SMS and e-mail.

### Expert Battery System (EBS)

The EBS allows the type of battery most adapted to the needs of each user to be chosen: sealed or open lead or nickel-cadmium batteries.

The EBS interacts directly and autonomously with the batteries. The conditions of use and environmental conditions (such as temperature) are analysed, in real time, so that the most appropriate recharging method can be chosen: (floating or intermittent).

Optimal battery management is thus assured, corrosion reduced and lifespan up to 50% longer.

Furthermore, EBS allows battery parameters and measurements monitoring on the front graphic display and via the LAN connection.

### Energy saver

In this mode only the UPS needed to supply the power required at a given time are in operation.

Redundancy of operation is nevertheless ensured by increasing the output level of the entire system.

If the load's absorption demand increases, the inverters needed for the greater supply cut in with zero response time.

This operation is perfectly adapted to applications which require frequent power variations.

It is now available in all configurations with more than two UPS in parallel.

Energy Saver enables increased efficiency of the whole system to be maintained.

### Always-on mode

This innovative operating mode, specifically designed for **MASTERYS**, represents a significant development in the UPS field.

In the Always-On mode of operation, the applications are supplied by the network, but the harmonic feedback standardly produced on the network by non-linear loads is automatically analysed and corrected by the UPS.

The Always-on mode guarantees sinusoidal current is absorbed on the network, contributing to the reduced costs of your business.

### Global Supply System (GSS)

The customary attention paid by SOCOMECS UPS to actual market needs has led to the Global Supply System: a solution that guarantees perfect compatibility between UPS and the generating set.

This solution, made possible by use of an IGBT rectifier, eliminates costly overrating of installations. The operating logic enables management of the UPS linked to the generating set.

These provide a single system that is easy for users to manage.

### Dual battery

The batteries are split into two separate, independent assemblies (separate chargers and protection). If there is a fault with one of the batteries, the back-up time provided by the other unit remains available and continues to supply power to your equipment.

