

Single-phase  
and three-phase  
UPS

# MASTERYS Green Power

from 10 to 40 kVA

high availability with high efficiency

## For strategic applications

Data Centers, prodigious consumers of electrical energy for their operational functions and air conditioning systems, are among the economic sectors that are first and foremost concerned.

## Costs reduction and environmental care

The high efficiency of **MASTERYS Green Power** UPS reduces energy loss and requirement of air conditioning systems.

**MASTERYS Green Power** range gives the highest efficiency performance on the market: up to 96% over a wide range of uses.

## Significant cost saving

- Maximum energy saving  
The 96% output efficiency means you can save thousands of euros on your annual energy bill.
- Highly compact UPS and battery  
The reduced footprint of the UPS and its battery saves you valuable floor space.
- Extended battery life and performance  
EBS battery charging management reduces the battery aging.

## Optimised electrical network

- Smaller upstream installation, due to very low input current.  
Input power factor > 0.99 and input current harmonic distortion < 2.5%.
- 12% more active power for last generation servers.  
Due to the 0.9 output power factor, all the power can be used with the latest servers.

## High availability and flexibility

- Advanced battery monitoring and management.  
For optimum battery reliability.
- Flexible modular upgrades  
Easy to add supplementary units (up to 6).
- High availability architectures
  - Parallel redundant architecture
  - Internal Automatic Cross Synchronisation (ACS).

## User-friendly and advanced communication facilities

- User-friendly multilingual interface with graphic display.
- Flexible communication boards for every BMS (Building Management Systems).  
Dry contacts, MODBUS, PROFIBUS...
- **T.SERVICE** real-time 24/7/365 remote surveillance.
- Advanced server shutdown options for stand-alone and virtual servers.



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

**MASTERYS Green Power** efficiency is verified by TÜV SÜD.

**96%** TRUE ON-LINE DOUBLE CONVERSION



Better performance than the EU Code of Conduct on efficiency of AC UPS



GAMME 125 A

Your protection for

- > Data centers
- > Telecommunications
- > Service sector
- > IT-Networks



## Range

Model	Input/output	kVA	Back-up time std*	Max. internal back-up time
GP 110	3/1	10	16'	110'
GP 310	3/3	10	16'	110'
GP 115	3/1	15	12'	65'
GP 315	3/3	15	12'	65'
GP 120	3/1	20	7'	50'
GP 320	3/3	20	7'	50'
GP 330	3/3	30	12'	30'
GP 340	3/3	40	7'	20'

Back-up time at 70% of the load.  
\* with standard cabinet.

## Technical data

Sn [kVA]	10	15	20	30	40
Pn [kW]	9	13.5	18	27	36
Input/output: 3/1	●	●	●		
Input/output: 3/3	●	●	●	●	●
Parallel configuration	up to 6 units				
INPUT					
Rectifier rated voltage	400 V 3ph + N				
Input frequency	50/60 Hz ± 10%				
Power factor/THDI	0.99/< 2.5%				
OUTPUT					
Output voltage	if 1ph + N 230 V ± 1% (can be configured 220/240 V) if 3ph + N 400 ± 1% (380/415 V configurable)				
Voltage tolerance	static load ± 1% dynamic load in accordance with VFI-SS-111				
Output frequency	50/60 Hz ± 2% (configurable with generator from 1% to 8%)				
Automatic bypass	nominal output voltage ± 15% (configurable with generator from 10% to 20%)				
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 62040-3)				
EFFICIENCY (TÜV SÜD verified)					
Online mode @ 50% of load	up to 96%				
Online mode @ 75% of load	up to 96%				
Online mode @ 100% of load	up to 95.5%				
Efficiency in <b>ECO-MODE</b>	up to 98%				
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)	< 52 dB			< 55 dB	
UPS CABINET					
Dimensions W x D x H (with standard batteries) (mm)	444x795x800		444x795x1000		444x795x1400
Weight (with standard batteries) (kg)	190	195	195	315	320
Degree of protection	IP 20 (according to IEC 60529), IP 21 optional				
Colours	RAL 7012, plastic front panels: dark grey				
STANDARDS					
Safety	EN 62040-1 (TÜV SÜD certified), EN 60950-1				
Performance and Topology	EN 62040-3 [VFI-SS-111]				
EMC standard	EN 62040-2 (2nd Edition)				
Product certification	CE				

■ standard configuration - back-up time at 70% of the load.

## Standard electrical features

- Dual input mains.
- Internal maintenance bypass.
- 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.
- 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.
- **UNIVISION-PRO**: advanced user interface via serial link and multiple shutdown management for 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.