

# MASTERYS Green Power

from 60 to 120 kVA

the solution that combines high availability  
with energy efficiency

## More high quality power for latest-generation leading IT loads

The **MASTERYS Green Power** range is designed to supply latest-generation leading servers without over rating the UPS power. The 0.9 rated output leading to lagging power factor responds perfectly to computer system high power factor load requirements. 12% more active power, and without downgrading up to a power factor value of 0.9 for the latest generation of servers.

## “Clean” rectifier, for a reduced upstream installation and reduced input current

With an upstream constant power factor of 0.99 and extremely low harmonic distortion the **SOCOMEC** range of **MASTERYS Green Power** UPS systems significantly optimises the upstream infrastructure:

- optimal gen-set size,
- minimum control boards and upstream cables,
- the overall installation power is noticeably improved in terms of capacity and quality.

## Storage solutions

The flexibility typical of **MASTERYS Green Power** UPS range opens new possibilities on the energy storage aspect of your installation to get the maximum from the high quality power supply.

The following features allow minimizing the amount of battery cabinets for an equivalent back-up time:

- ultra high efficiency of 96%,
- very wide input voltage (-40%/+20%) and frequency (45 Hz to 65 Hz) rectifier acceptance without battery use,
- wide selection of battery configurations, thanks to a very flexible DC bus voltage,

## Advanced interface

### • User-friendly graphic display

Gives a clear view of the UPS subassemblies status and provides the user with a full array of controls for their management.

### • High visibility LED status bar

Gives the UPS status in 3 colours: green, yellow or red.

### • Easy procedures for start-up and shutdown of the UPS

The display gives operators a step-by-step multilingual descriptions of the operating procedures.

### • Wide range of network connections

Extensive communication possibilities are on offer, including: HTML page for remote monitoring, SNMP agent sending TRAP to network management station, email sent according to events selection, MODBUS TCP for BMS data transfer, SMS alert.

### • Shutdown agent

Allows sending a shutdown command to stand-alone or virtual servers.

96%  
TRUE ON-LINE  
DOUBLE  
CONVERSION



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

**MASTERYS Green Power** efficiency is verified by TUV SUD.



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



GAMME 202 A

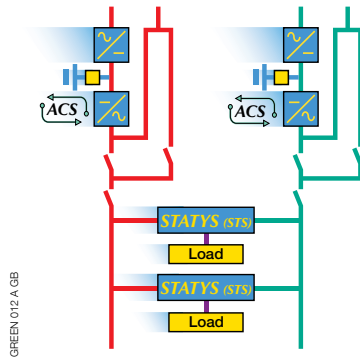
Your protection for

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



### Innovative architectures

- **Double bus architecture**, for a very high availability (TIER III or TIER IV classification).



ACS: Automatic Cross Synchronisation  
STS: Static Transfer Switch

### Technical data

Sn [kVA]	60	80	100	120
Pn [kW]	54	72	90	108
Input/output:3/3	•	•	•	•
<b>INPUT</b>				
Rectifier rated voltage	400 V 3ph + N			
Voltage tolerances	±20% without derating, -40% with 50% of Pn			
Input frequency	50/60 Hz ± 10%			
Power factor/THDI	> 0.99/< 2.5%			
Bypass rated voltage	3ph + N 400 V			
<b>OUTPUT</b>				
Voltage	400 V 3ph + N ±1%			
Voltage tolerance	static load ±1% dynamic load in accordance with VFI-SS-111			
Frequency	50/60 Hz ±0.02 Hz			
Automatic bypass	rated voltage output ±15% (configurable with generator from 10% to 20%)			
Total harmonic voltage distortion	< 1% with linear load/< 3% with non linear 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			
Short circuit current	up to 2.7 x In		up to 3.7 x In	
<b>EFFICIENCY (TÜV SÜD verified)</b>				
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%			
<b>ECO MODE</b>	up to 98%			
<b>ENVIRONMENT</b>				
Operating environment temperature	from 0 °C up to +40 °C (from 15 °C to 25 °C for maximum battery life)			
Relative humidity	0% - 95% without condensation			
Maximum altitude	1000 m without derating (max. 3000 m)			
Noise level (ISO 3746)	< 60 dB (A)		< 65 dB (A)	
Paralleling units	up to 6			
<b>UPS CABINET</b>				
Dimensions W x D x H (mm)	600 x 800 x 1400		700 x 800 x 1930	
Weight (kg)	180	200	380	460
Degree of protection	IP 20 (other IP in option)			
Colours	dark grey, silver grey frontal door			
<b>STANDARDS</b>				
Safety (TÜV SÜD certified)	EN 62040-1, EN 60950-1-1			
Performance	EN 62040-3 (VFI-SS-111)			
Electromagnetic compatibility (EMC)	EN 62040-2			
Product declaration	CE			

### Standard electrical features

- Dual input mains.
- Internal maintenance bypass.
- Backfeed protection: detection circuit.
- **EBS** (Expert Battery System) for battery management.
- External temperature sensor.

### Electrical options

- External maintenance bypass.
- Long life batteries.
- External battery cabinet.
- Additional battery chargers.
- Galvanic isolation transformer.
- Parallel kit.
- **ACS** synchronization system.

### Standard communication features

- Multilanguage graphic display.
- ADC interface (configurable voltage-free contacts).
- 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.
- JNC: shutdown client for workstations and servers for several operating systems.
- OPManger: centralized monitoring program for Windows and Linux via SNMP.

### Remote maintenance

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