Single-phase and three-phase UPS

Green Power

from 10 to 40 kVA
high availability with high efficiency

For strategic applications

Data Centres, 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 the ***Green Power*** UPS reduces energy loss and requirement of air conditioning systems.

The ***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 improves the battery lifespan.

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, DEVICENET…
- ***T.SERVICE*** real-time 24/7/365 remote surveillance.
- Advanced server shutdown options for stand-alone and virtual servers.

TÜV SÜD Production monitored Safety tested

The ***MASTERYS GP*** series is certified by TÜV SÜD with regard to product safety (EN 62040-1) and efficiency values (EN 62040-3)

UP TO **96 %**

The highest efficiency performance on the market

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

GREEN 015 B - GREEN 016 B - GREEN 017 B

Your protection for

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



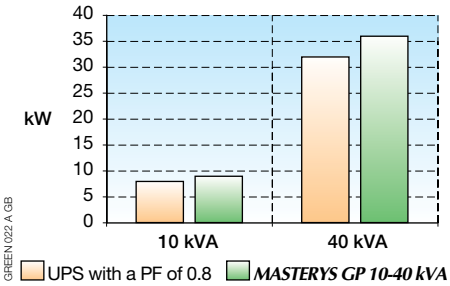
socomec Innovative Power Solutions UPS

Range

Model	Input/output	kVA	Back-up time std*	Max. internal back-up time
GP 110	3/1	10	25'	150'
GP 310	3/3	10	25'	150'
GP 115	3/1	15	15'	80'
GP 315	3/3	15	15'	80'
GP 120	3/1	20	10'	55'
GP 320	3/3	20	10'	55'
GP 330	3/3	30	15'	30'
GP 340	3/3	40	10'	25'

Back-up time at 75 % of the load.
** with standard cabinet.*

12 % more active power



GREEN 022 A GB

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					
Nominal voltage	(3ph + N) 400 V ± 20 % (up to -40 % at 50 % Pn)				
Input frequency	50/60 Hz ± 10 %				
Power factor/THDI	0.99/< 2.5 %(1)				
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 for 10 minutes [kW]	10	15	20	30	40
Overload for 5 minutes [kW]	11	16.5	22.5	33.5	45
Overload for 1 minute [kW]	12	18	24	36	48
Overload for 30 seconds [kW]	13.5	20.2	27	40.5	54
Crest factor	3:1 (in accordance with EN 62040-3)				
EFFICIENCY (TÜV SÜD certified)					
Online mode @ 50 % of load	96 %				
Online mode @ 75 % of load	96 %				
Online mode @ 100 % of load	95.5 %				
Efficiency in *ECO-MODE*	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	
WEIGHT (kg)					
Weight (with standard batteries)	190	195	240	315	400
DIMENSIONS W x D x H [mm]					
Cabinet (with standard batteries)	444x795x800		444x795x1000		444x795x1400
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				
IP rating	IP 20 (according to IEC 60529), IP 21 optional				

standard configuration - back-up time at 75 % load.
(1) for source THDV < 2 % and nominal load.

Standard communication equipment

- RS 232/485 serial port.
- RS 232 serial port for modem.
- Embedded LAN interface.
- 2 auxiliary interface slots.

Standard electrical equipment

- Integrated maintenance bypass.
- Double input network.
- External backfeed control.

Electrical options

- External maintenance bypass.
- External backfeed protection.
- External battery cabinet.
- Additional battery charger.
- Long back up time models (up to 15 A recharging current).
- Isolation transformer.
- ***ACS*** synchronisation system.

Communication options

- Remote panel.
- ADC interface (configurable voltage free contacts).
- ***GSS*** interface (generator management).
- ***UNI VISION PRO*** software to manage connected applications and control automatic shutdown. Serial cable included.
- ***NET VISION*** interface WEB/SNMP manager for connecting the UPS system to the LAN/WAN network.
- PROFIBUS and DEVICENET.

Remote maintenance

- ***T.SERVICE*** for continuous monitoring of ***Green Power*** via the SOCOMEC UPS maintenance software.