

MASTERYS GP

High-efficiency protection without compromise

Green Power 2.0 range from 10 to 40 kVA/kW



Energy saving + Full rated power = reduced TCO

Energy Saving: high efficiency without compromise

- Offers the highest efficiency in the market using VFI – Double Conversion Mode, the only UPS working-mode that assures total load protection against all mains quality problems.
- Ultra high efficiency output independently tested and verified by an international certification organization in a wide range of load and voltage operating conditions, to have the value in the real site conditions.
- Ultra high efficiency in VFI mode is provided by an innovative topology (3-Level technology) that has been developed for all the Green Power 2.0 UPS ranges.

Full-rated power: kW=kVA

- No power downgrading when supplying the latest generation of servers (leading or unity power factor).
- Real full power, according to IEC 62040: kW=kVA (unity power factor design) means 25% more active power available compared to legacy UPS.
- Suitable also for leading power factor loads down to 0.9 without apparent power derating.

Significant cost-saving (TCO)

- Maximum energy saving thanks to 96% efficiency in true double conversion mode: 50% saving on energy losses compared to legacy UPS gives significant savings in energy bill.
- UPS "self-paying" with energy saving.
- Energy Saver mode for global efficiency improvement on parallel systems.
- kW=kVA means maximum power available with the same UPS rating: no overdesign cost and therefore less €/kW.
- Upstream infrastructure cost optimization (sources and distribution), thanks to high performance IGBT rectifier.
- Battery configuration can be optimized, thanks to a very wide DC range.
- Extended battery life and performance:
- long life battery,
- very wide input voltage and frequency acceptance, without battery use.
- EBS (Expert Battery System) charging management improves battery service life.

The solution for

- > Data centres
- > Telecommunications
- > Healthcare sector
- > Service sector
- > Infrastructure
- > Industrial applications

Certifications



Advantages









Our dedicated Expert Services for UPS

We offer services to ensure your UPS highest availability:

- > Commissioning
- > On-site intervention
- > Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- > Maintenance packages
- > Training



www.socomec.com/services



Standard electrical features

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

Electrical options

- External maintenance bypass.
- External battery cabinet.
- Additional battery chargers.
- Galvanic isolation transformer.
- Parallel kit.
- · ACS synchronization system.

Standard communication features

- User-friendly multilingual interface with color graphic display.
- Commissioning wizard.
- 2 slots for communication options.
- MODBUS TCP.
- MODBUS RTU.
- Embedded LAN interface (web pages, email).

Communication options

- Dry-contact interface.
- PROFIBUS.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.

Remote monitoring service

 LINK-UPS, remote monitoring service that connects your UPS to your Critical Power specialist 24/7.

Technical data

		MASTERYS GP					
Sn [kVA]		10	15	20	30	40	
Pn [kW]		10	15	20	30	40	
Input/output 3/1		•	•	•	-	-	
Input/output 3/3		•	•	•	•	•	
Parallel configuration			•	up to 6 units			
INPUT				•			
Rated voltage				400 V 3ph+N			
Voltage tolerance		240 V to 480 V ⁽¹⁾					
Rated frequency		50/60 Hz ± 10%					
Power factor / THDI		> 0.99/< 2.5%					
OUTPUT				7 0.007 (2.070			
Power factor			1 (ac	cording to IEC/EN 6	2040-3)		
Rated voltage		1ph + N: 230 V (can be configured 220/240 V)					
Voltage tolerance		3ph + N: 400 V (can be configured 380/415 V) static load ±1% dynamic load in accordance with VFI-SS-111					
Rated frequency		50/60 Hz					
Frequency tolerance		± 2% (configurable for GenSet compatibility)					
Total output voltage distortion -							
linear load		<1%					
Total output voltage distortion - non-linear load		< 3%					
Overload		125% for 10 minutes, 150% for 1 minute ⁽¹⁾					
Crest factor				3:1			
BYPASS							
Rated voltage		rated output voltage					
Voltage tolerance		± 15% (configurable from 10% to 20%)					
Rated frequency		50/60 Hz					
Frequency tolerance				± 2%			
EFFICIENCY (TÜV	SÜD veri	fied)					
Online mode @ 50 % of load		up to 96%					
Online mode @ 75 % of load		up to 96%					
Online mode @ 100% of load		up to 96%					
Eco Mode		up to 98%					
ENVIRONMENT							
Operating ambient temp	erature	from (0 °C up to +40(1) °C	(from 15 °C to 25 °	°C for maximum batte	ry life)	
Relative humidity		0% - 95% without condensation					
Maximum altitude		1000 m without derating (max. 3000 m)					
Acoustic level at 1 m (ISO 3746)		< 52 dBA < 55 dBA					
UPS CABINET							
	W	444 mm					
Dimensions	D	795 mm					
	Н	800	mm	100	00 mm	1400 mm	
Weight		190 kg	19	5 kg	315 kg	320 kg	
Degree of protection				IP20			
Colours				RAL 7012			
STANDARDS							
Safety		IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2					
EMC		IEC/EN 62040-2, AS 62040.2					
Performance		IEC/EN 62040-3, AS 62040.3					
Seismic compliance		On demand according to Uniform Building Code UBC-1997 Zone 4					
		CE, RCM (E2376)					

(1) Conditions apply.

