

MASTERYS GP4

Superior reliability and performance
from 10 to 160 kVA/kW



Function

MASTERYS GP4 is the most advanced medium power monolithic UPS solution. With reliability engineered-in - to guarantee uptime, innovative features to maximise energy efficiency and intelligent capability fit for the future.

Advantages

Superior design and reliability

- Oversized design margin: reliability first.
- Certified seismic resistance.
- Superior and officially attested MTBF.
- Long product life expectancy.

Unrivalled serviceability

- UPS architecture eliminates single point of failure associated with traditional monolithic UPS.
- Fault tolerant concept provides double conversion mode redundancy to a minimum of 50% of rated power in the worst case scenario (60-160 kW).
- Self-sufficient power bricks.
- Based on our field proven medium power platform.
- Limited number of power converters - each designed to eliminate potential fault propagation for best MTBF.
- Powerful and robust static bypass.
- Innovative maintenance thanks to brick architecture.
- Rapid repairs: 5 times faster than legacy UPS.
- Totally front access maintenance.

Embedded digital technology

- IoT ready device for access to connected services.
- eWIRE mobile app for AR guided installation and reporting.
- SoLive UPS mobile app for remote control and anomaly notification.
- Easy integration in LAN/WAN and virtual environments.

Certified performance

- Full performance up to 40 °C without derating and without specific conditions.
- Energy savings - without compromise: 96.5% efficiency in VFI.
- Up to 99% efficiency in "ECO" mode.
- Performance tested and verified by TÜV SÜD.

User and environmentally friendly

- Ergonomics designed to simplify usage.
- Ready for upcoming eco-regulations.
- RoHS compliant.
- Halogen-free cables.
- 25+ languages available on the mimic panel.

Extended and flexible back-up time

- High density internal battery engineering reduces footprint significantly.
- Internal battery up to 80 kW included.
- Fast recharge - even for very long back-up time.
- Li-Ion battery technology-ready.

The solution for

- > Healthcare
- > Industry

Strong points

- > Superior design and reliability
- > Unrivalled serviceability
- > Embedded digital technology
- > Certified performance
- > User and environmentally friendly
- > Extended and flexible back-up time

Conformity to standards

- > IEC/EN 62040-1, IEC/EN 62040-2
- > EN 62040-3
- > CE
- > UKCA
- > EAC

Certifications and attestations



The MASTERYS GP4 series is certified by TÜV SÜD with regard to product safety (EN 62040-1).



Seismic resistant The MASTERYS GP4 units have successfully passed severe tests to verify their resistance to withstand Zone 4 seismic events.



Sustainability advantages

- > Up to 73% recyclability potential.
- > Manufactured in line with ISO 14001 certification.
- > Low-carbon services to reduce on-site interventions.
- > RoHS & REACH compliant.
- > PEP ecopassport® available.

MASTERYS GP4

Three-phase UPS
from 10 to 160 kVA/kW

General characteristics

- Dual input mains.
- Internal maintenance bypass switch.
- Input mains switch breaker.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Full compatibility with generators.
- Normal and long-life battery up to 80 kW.
- Distributed or shared battery for energy storage optimization on parallel systems.

Standard communication features

- User-friendly 7" touch screen with multilingual colour graphic display (60-160 kVA/kW).
- 2 slots for communication options.

Technical data

MASTERYS GP4										
Sn [kVA]	10	15	20	30	40	60	80	100	120	160
Pn [kW]	10	15	20	30	40	60	80	100	120	160
Input / output 3/1	•	•	•	-	-	-	-	-	-	-
Input / output 3/3	•	•	•	•	•	•	•	•	•	•
Parallel configuration	up to 6 units									
INPUT										
Rated voltage	400 V 3ph+N (3 wire input also available on demand)									
Voltage tolerance	240 V to 480 V									
Rated frequency	40-70 Hz									
OUTPUT										
Power factor	1 (according to IEC / EN 62040-3)									
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (can be configured 380/415 V)									
Rated frequency	50/60 Hz									
EFFICIENCY (TÜV SÜD VERIFIED)										
Double conversion VFI mode	up to 96.5%									
Eco Mode	up to 99%									
BATTERIES										
Technologies	VRLA, NiCd, Li-Ion Battery									
INTERNAL BACK-UP TIME (MINUTES)⁰										
S4	31	19	13	7	5					
M4	90	57	40	24	17					
T6						11	8			
ENVIRONMENT										
Operating ambient temperature	full performance up to +40 °C									
UPS CABINET										
Weight	depends on the number of batteries installed - contact us									
Degree of protection	IP20 (IP21 on demand)									
Colours	RAL 7016									
ADVANCED SERVICE PERFORMANCE										
Life extension	service programme to avoid end of life									
Quick repair	5 times less MTTR than legacy UPS by removable front access parts									
STANDARDS										
Safety	IEC/EN 62040-1									
EMC	IEC/EN 62040-2									
Performance	EN 62040-3									
Environmental	full compliance with the RoHS EU directive									
Seismic compliance	on demand, in accordance with the Uniform Building Code UBC-1997 Zone 4									
Product declaration	CE, EAC, UKCA									

(1) @80% of rated load PF 1.

- USB port for downloading UPS report and log file.
- Ethernet port for service purposes.

Electrical options

- 3-phase input without neutral.
- Internal backfeed isolation device.
- Common mains coupling bars.
- TN-C grounding system.
- ACS synchronization system.
- IP21 degree of protection.
- Top cabling kit.
- Top ventilation kit.
- Redundant bypass fan.
- Seismic bracing kit.

Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or TCP.

- PROFIBUS / PROFINET gateway.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.
- IoT gateway for Socomec cloud services and SoLive UPS mobile app.
- Remote touch-screen panel.
- User-friendly 7" touch screen with multilingual colour graphic display (10-40 kVA/kW).

Designed for availability

> MTBF VFI*: 350,000 hrs

* Officially attested.

UPS dimensions (WxDxH)

S4
10-40 kVA
Internal or external battery
444 x 800 x 800 mm

M4
10-40 kVA
Internal battery
444 x 800 x 1400 mm

T6
60-80 kVA
Internal battery
600 x 855 x 1930 mm

M6
60-120 kVA
External battery
600 x 855 x 1400 mm

T6
160 kVA
External battery
600 x 855 x 1930 mm

Expert services

Our services guarantee the highest level of availability to your UPS:

- > Technical advice
- > Commissioning
- > Manufacturer training
- > Maintenance contracts including digital services