

Enterprise Networks

Process & Infrastructures

Three-phase/single-phase UPS

Comet S 31

5/7.5/10/15/20 kVA

Efficient and cost-effective solution for industry and service sector buildings

High availability

- ▶ UPS and battery fully replaceable on-line: no interruption of the power supply to the protected equipment during replacement of the UPS or the battery.
- ▶ No demand on the batteries over a wide range of input voltages (325 to 445 Volts).
- ▶ The UPS can be connected to two independent electrical systems (1/2 common or separate systems).
- ▶ Redundancy: with its ability to operate in sequential redundancy mode, the Comet S 31 can be used to control two levels of availability.
- ▶ Enhanced protection with the Battery Monitor:
 - > recharging cycle adjusted to the temperature of the room,
 - > protection against full discharges,
 - > precise measurement of the battery capacity,
 - > periodic and automatic tests



Efficiency

Comet S 31, the efficient solution for the centralised protection of multi-user, server-based systems:

- ▶ can be integrated into any environment,
- ▶ high mobility: low weight, 4 castors, 4 locking guides,
- ▶ straightforward connection: high capacity, easily accessible terminal blocks,
- ▶ simplified operation and indicator system: just 2 ON/OFF buttons with a mimic diagram on the front panel.



Protection for equipment susceptible to interference

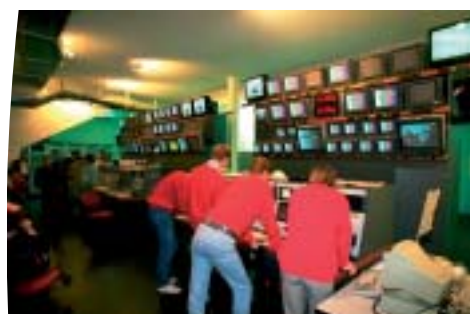
- ▶ On-line double conversion technology.
- ▶ Double filtering on input and output.
- ▶ Structure sealed for protection against radio-electrical interference.

Upgradeability

- ▶ Compatibility with multi-source environments.
- ▶ Several Comets can be monitored via the Ethernet network.
- ▶ With the Management-Pac program, the Comet can be monitored from a corporate infrastructure.
- ▶ Wide choice of discharge times, from 10 to 50 minutes.

Protection for 25 to 100 servers, ideal for:

- ▶ mini-market
- ▶ bank branches
- ▶ departmental information systems, etc.



Robust and efficient, the Comet S 31 can be installed in any environment.



Highly mobile and easy to connect, the Comet S 31 can be easily adapted to new changes in the office layout.

THE UNINTERRUPTIBLE POWER PROVIDER

M G E
UPS SYSTEMS

Associated communication

Solution-Pac software suite supplied on CD

To control the protected servers (clean shutdown) and for local or remote supervision of the UPS.

Management-Pac 2 software suite supplied on CD

NMS integration kit: HP Openview, IBM Tivoli Netview, CA Unicenter, etc.

Multislot

The Multislot 1 U interface is a protocol converter which ensures compatibility with any transverse communication product supplied by MGE UPS Systems (refer to the details below).

With this interface, the U-Talk link originating from the Comet S 31 is converted into ASCII/HID protocol, serial or USB, SNMP, JBus.

Environment Sensor for the SNMP/Web card

SNMP and Web monitoring of Temperature & Humidity & the status of 2 contacts.

JBus/ModBus card

To connect the UPS to a building management system.

SNMP/Web network card

To connect the UPS to the Ethernet 10/100 network, to relay SNMP warnings and to supervise the UPS via a single Web interface.

Status information card

To relay the status of the UPS in the form of free potential contacts plus emergency stop.

MGE PowerServices™

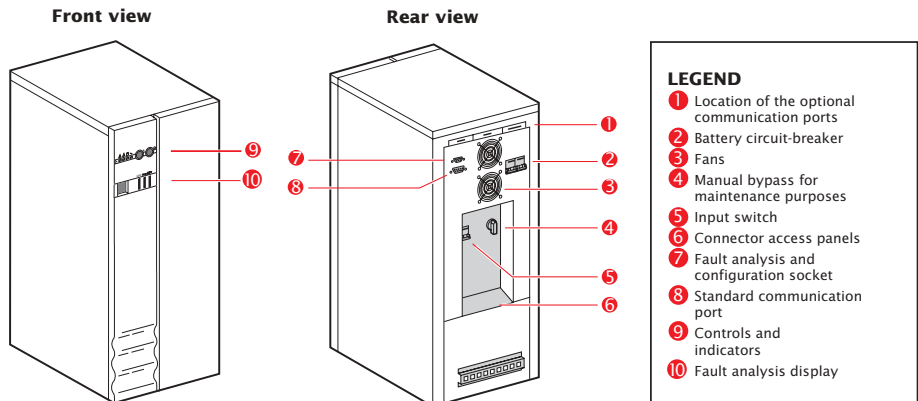
1-year warranty, including batteries.

Associated services ⁽¹⁾

- ▶ Commissioning: startup of your installation conforming to the manufacturer's specifications.
- ▶ Teleservice: remote monitoring of the UPS via the telephone system.
- ▶ Maintenance contracts: a selection of suitable maintenance programmes.
- ▶ Battery replacement: the optimum match of UPS and batteries.
- ▶ Battery monitoring: monitoring and continuous analysis of every component.
- ▶ Site audit: analysis and recommendations based on the technical environment.

1: Depending on the country, visit www.mgeups.com/services.

Diagram of the S31 7.5/10 kVA



LEGEND

- 1 Location of the optional communication ports
- 2 Battery circuit-breaker
- 3 Fans
- 4 Manual bypass for maintenance purposes
- 5 Input switch
- 6 Connector access panels
- 7 Fault analysis and configuration socket
- 8 Standard communication port
- 9 Controls and indicators
- 10 Fault analysis display

Technical characteristics

Comet S 31	5 kVA	7,5 kVA	10 kVA	15 kVA	20 kVA
Active power output (kW)	4	6	8	12	16
Technology	On-line double conversion				
AC power supply input/output					
Input voltage range	325-445 Volts; input 3-phase + neutral, power supply 1 and power supply 2 common or separate				
Input frequency range	47-63 Hz, frequency converter as standard function				
Output voltage/frequency	200/208/230/240/250 Volts/50/60 Hz				
Performance					
Efficiency	91/89	92/89	91/89	93/92	93/92
mains mode / battery mode					
Overload capacity	1.3 to 1.5 In for 10 seconds				
	1.1 to 1.3 In for 1 minute				
	1.05 to 1.1 In for 10 minutes				
Permissible crest factor	5:1				
Distortion factor	4 %				
Operating temperature	40°C for 8 hours; 35°C for 24 hours; 0°C to 30°C continuous				
Noise level (dBA)	45		46		50
Battery discharge times ⁽¹⁾					
Standard discharge time at 100 % load, integrated UPS and batteries ⁽²⁾	8 minutes		10 minutes		
Communication					
Port	Sub-D 15 port for LAN communication				
Slot	3 slots for the S 31 communications interface: RS232/U-Talk card, GTC card (JBUS, Monitor Plus terminal)				
Options					
Enhanced filtering	Filtering option ⁽³⁾				
Electrical insulation	Optional isolation transformer ⁽³⁾				
Standards and certifications					
Performance and topology	EN 50091-3				
EMC	EN 55011/022 level A				
Certification	CE ; TÜV				
Design and manufacture	ISO 9001				
Connection to input/output terminal block (optional PDU terminal strip)					
Flexible cables	4 mm ²		10 mm ²		35 mm ²
Rigid cables	6 mm ²		16 mm ²		35 mm ²
Dimensions of the modules, H x L x D (mm)					
UPS with integral batteries	730 x 360 x 420	910 x 400 x 550		1085 x 560 x 680	
Weight (kg) of UPS with integral batteries					
Without packaging	81	176	206	370	450
With packaging	94	191	221	418	478

1: Typical values after 3 discharge cycles, batteries 3 to 5 years. Please contact us for details of 10-year battery.
2: Higher battery discharge times of 30 and 50 minutes are available, please contact us for details.
3: Please contact us for details.

MGE UPS SYSTEMS

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