

# Three-phase UPS

## Galaxy 3000

10/15/20/30 kVA

Simple solution, optimised for computer rooms and equipment rooms

### High availability

#### Failure tolerance system

- ▶ An internal bypass overcomes faults which may occur during operation.
- ▶ An external bypass allows maintenance work to be carried out on the device without shutting down the protected equipment.

#### Redundancy system

- ▶ For highly critical applications, 2 Galaxy 3000 units installed in a redundancy configuration to ensure continuity of service.
- ▶ The ability to connect the Galaxy 3000 to 2 independent upstream power sources further increases the MTBF (mean time between failures).

#### Reliability of the battery system

The batteries fitted to the Galaxy 3000 are protected against full discharge and their temperature is monitored. In addition, the intermittent recharging technique doubles the service life of the batteries.

### Upgradeability

With its modular design, the power output from the Galaxy 3000 can be increased, without interrupting the power supply, by simply adding an identical power module.



### Highly competitive operating cost

The PFC (Power Factor Correction) system has 2 benefits:

- ▶ the electrical power factor is reduced by 20% in comparison with a standard UPS;
- ▶ a saving on installation costs by reducing the size of the generating plant and the equipment upstream of the UPS.

### Straightforward, user-friendly operation

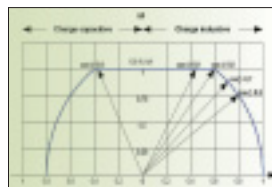
The colour graphics display ensures immediate interpretation of measurement, fault analysis and status messages.



A large communication screen with a multi-language colour graphics display.

### Protection for the most sensitive types of equipment

- ▶ Galaxy 3000 conforms to the most stringent technical standards in terms of electromagnetic compatibility.
- ▶ The quality of the output voltage from the Galaxy 3000 is consistent, regardless of the interference emitted downstream of the UPS and any variation in the load factor.
- ▶ Suitable without de-rating even for leading power factor loads up to 0,9



Protection for 50 to 150 servers, ideal for:

- ▶ computer and telecoms systems
- ▶ critical process and infrastructure systems



Compact size, sophisticated design, ease of operation, straightforward integration into NMS.

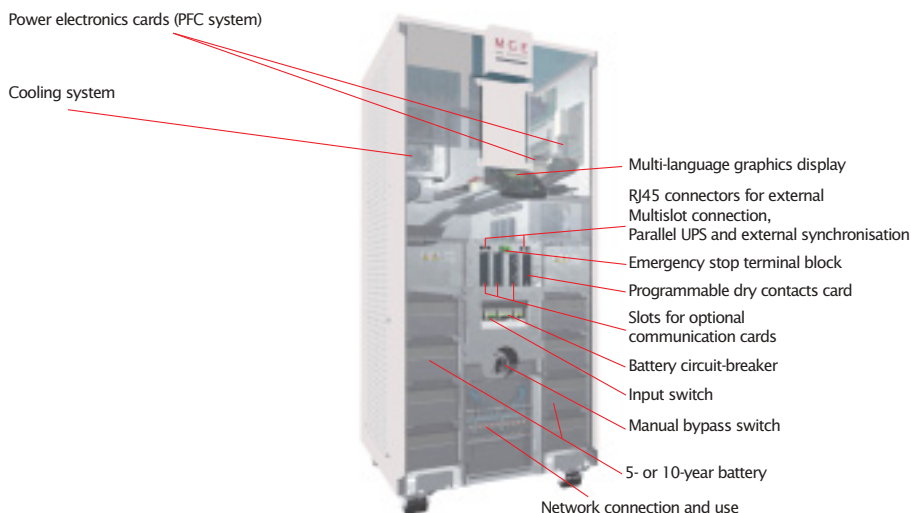


Failure tolerance system, redundancy and upgradeability, high quality power.

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**MGE**  
UPS SYSTEMS

# Three-phase UPS - Galaxy 3000



## Associated communication

### Solution-Pac software suite on CD

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

### Management-Pac 2 software suite on CD

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

### Network Management 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.

### Environment Sensor for the SNMP/Web card

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

**Supervision using Enterprise Network Manager or the NMS integration kit** for HP Openview, IBM Tivoli NetView, CA Unicenter, etc.

### JBus/ModBus card

To connect the UPS to a Building Management System.

### Status information card

To relay the status of the UPS via volt free contacts plus emergency stop.

## MGE PowerServices™

### 1-year warranty, including battery.

### Associated services <sup>(1)</sup>

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

1: Depending on the country, visit

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G300030SUK-09/06

## Technical characteristics

Galaxy 3000	10 kVA	15 kVA	20 kVA	30 kVA
Active power output (kW)	8	12	16	24
Active power output (kVA)	On-line double conversion + PFC (Power Factor Correction) system			
<b>AC power supply input/output</b>				
Input voltage range	250 V to 440 V three-phase + neutral			
Nominal input voltage	380-400-415 V, up to 480 V with auto-transformer (optional)			
Input frequency	47 to 63 Hz, frequency converter function as standard			
Output voltage/frequency	380-400-415 V +/- 1% three-phase + neutral / 50/60 Hz +/- 1%			
<b>Performance</b>				
Noise level (dBA)	< 50		< 53	
Current distortions (THDI)	< 5%		< 3%	
Dynamic performance	+/-3% on load impact			
THDU voltage distortion	< 3%			
Overload capacity	150% 1 second; 120% 1.5 minutes; 110% 5 minutes			
Permissible crest factor	3:1			
Efficiency	97% in economy mode			
Battery protection	'Battery Monitoring System' built-in as standard			
Operating temperature	40°C for 8 hours; 0°C to 35°C continuous			
<b>Battery discharge times at 70% load</b> (typical values after 3 discharge cycles)				
UPS enclosure with integral batteries				
standard	10 minutes	10 minutes	10 minutes	10 minutes
premium	20 minutes	20 minutes	20 minutes	13 minutes
LA	35 minutes		24 minutes	
UPS enclosure + battery extension enclosure				
XLA	48 minutes	32 minutes	41 minutes	24 minutes
X2LA (* sur demande)	75 minutes*	53 minutes	70 minutes*	53 minutes
<b>Communication</b>				
MGE communication slot	Integral 3-slot 1 card with dry contacts as standard			
Emergency stop	1 terminal block			
<b>Options</b>				
Isolation transformer module	Electrical isolation, 1/2 separate systems, neutral reference dimensions identical to the 30 kVA UPS with integral batteries			
Paralleling	Up to 4 units with the same power to provide redundancy and increase the power			
<b>Standards and certifications</b>				
Safety/performance	IEC 62040-1/IEC 62040-3			
EMC/harmonics	IEC 62040-2 niv. B/IEC 61000-3-2/4			
Certification	CE ; TÜV			
Design and manufacture /colour	ISO 14001 - ISO 9001/RAL 9002			
<b>Connection to terminal block (maximum cable cross-section)</b>				
Input/output cable	6 mm <sup>2</sup>	10 mm <sup>2</sup>	16 mm <sup>2</sup>	25 mm <sup>2</sup>
<b>Dimensions of the enclosures, H x L x D (mm)</b>				
UPS with integral batteries	1420 x 655 x 565		1600 x 670 x 685	
Battery extension	1600 x 850 x 685			
<b>Weights (kg) of UPS with integral batteries</b>				
Standard/premium	273/330	335/380	365/470	427/570

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