Three Phase UPS
Galaxy 6000

250/300/400/500/600/800 kVA

A new vision of efficiency

High power quality

The Galaxy 6000 range supplies clean stable power to sensitive loads to ensure

- Optimum operation
- Extended life.
- On-line double conversion providing clean output waveform whether the mains is present or not
- Stable output voltage: load variations have minimal effect
- Output voltage total harmonic distortion (THDU) less than 3%.

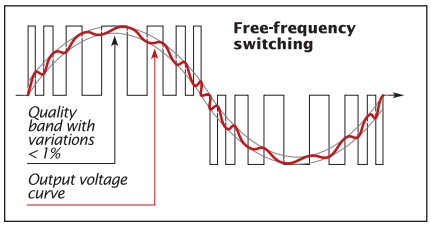
Architectures for all requirements

- Paralleling for Redundant or power uplift
- Paralleling of six modules with external static by-pass switch or up to 4 without static by-pass.
- Redundant distribution with Upsilon STS.

Very high efficiency – minimised total cost of ownership

The efficiency of UPSs delivering several hundred kVA is critical.

The Galaxy 6000 range has variable frequency DSP PWM control to maximise efficiency.



Difference of efficiency	2%		3%		4%	
Charge (kW)	1 an	5 ans	1 an	5 ans	1 an	5 ans
500	8883	51081	13324	76623	17765	102164
1500	26648	153245	39972	229868	66620	383113
	SAVINGS (Euros)					

Cost of one kwh : 0.06 euros

Energy savings

Computer controlled battery management for assured backup time

24/7 non-stop operation with Digibat B2000 and Cellwatch battery management systems.

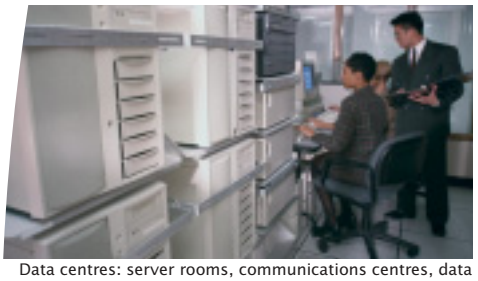
Vision for easy and effective operation

- High definition tactile colour display (32cm, 800x600 SVGA)

- Animated mimic display
- Event log
- Metering
- Statistics
- Remote viewing using a Web browser
- Display on each module of a parallel configuration or on only one UPS to supervise all the modules.

THE UNINTERRUPTIBLE POWER PROVIDER

Ideal for high power data centres and industrial applications



Data centres: server rooms, communications centres, data storage units, network equipment.

Clean room equipment photolithography, air purification, pumps etc.

Industrial: critical continuous processes (motors, speed controllers), clean rooms, paint booths, instrumentation, monitoring, controls, safety systems.

MGE UPS SYSTEMS

Three Phase UPS - **Galaxy 6000**

Communications

The Galaxy 6000 range can be connected to all type of networks

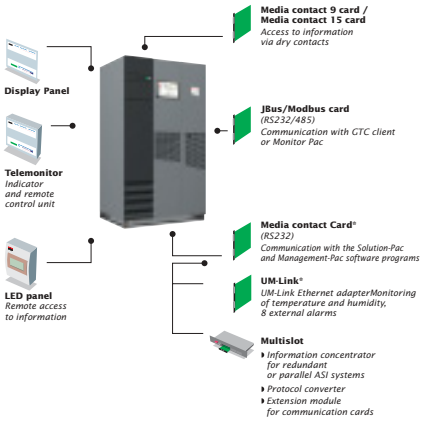
- To communicate the UPS status
- To shut down the operating systems of the servers connected, automatically in a controlled manner.
- To be supervised as part of a group of UPSs.

Solution Pac software suite supplied on CD with every UPS
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.

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

Communication cards



* included cards in the "Network Management Link"

- Data concentrator for redundant and parallel UPS systems
- Protocol converter
- Extension module for communication cards.

MGE PowerServices™

1 year guarantee, including batteries.

- Commissioning: commissioning your installation in accordance with the OEM's recommendations
- Teleservice: remote monitoring via the modem.
- Maintenance contracts: a selection of contracts that suit your specific needs
- Battery replacement: optimum match of UPS and batteries
- Battery monitoring: monitoring and continuous analysis of every cell.
- Site audit: analysis and recommendations based on the technical environment.

Extensive list of standard features

- On-line double conversion architecture (EN50091 Voltage and Frequency Independent UPS) with built in static switch and manual by-pass or with system by-pass static switch.
- Soft start, walk-in charger and inrush current limit for compatibility with generator sets
- Can start without mains (cold start)
- Circuit breaker for deep discharge protection
- Modular paralleling (up to 6)
- Paralleling up to 6 UPSs with centralised external static switch
- Sequential start-up for UPSs (in parallel configuration) to reduce impact on Genset
- True front access, can be installed against a wall
- Centralised static switch: 500 kVA to 4.8 MVA
- Emergency stop (EPO).

All the options you need

- Total Harmonic Management active harmonic filters and choice of passive harmonic filters
- 12 Pulse rectifier
- External by-pass cubicle (1200 kVA)
- "Vision" interface : large, color, tactile display
- Isolation transformers
- Remote LED indicator panel + Telemonitor
- Battery monitoring (monitoring each battery block)
- Battery circuit breaker unit
- Synchronisation module
- Top cable entry
- Common normal and bypass AC inputs.

Technical characteristics

Nominal rating (kVA) PF = 0.8	**250**	**300**	**400**	**500**	**600**	**800**
Normal AC supply input						
Input voltage range	320V to 470V three phase					
Inputs Mains 1 and Mains 2	Separate or common					
Frequency	50Hz / 60Hz ± 10%					
Input current total harmonic distortion (THDI)	< 4% with harmonic filter					
Input power factor (with Active Harmonic Filter)	> 0.95 with harmonic filter					
Bypass system input						
Nominal input voltage	320V to 470V three phase + neutral					
Frequency	50Hz / 60Hz ± 10%					
Output						
Output voltages	380V* - 400V - 415V ± 3% three phase + neutral					
Voltage regulation	± 1%					
Frequency	50Hz / 60Hz					
Over load	165%(0) 1 minute, 125% 10 minutes.					
Output voltage total harmonic distortion	THDU < 3%					
Max load crest factor	3:1					
Variation of voltage with 100% load step	± 5%					
Batteries						
Backup time	8-10-15-20-30-60 minutes, others on request					
Type	sealed lead acid, open lead acid, nickel cadmium					
Overall efficiency						
Double conversion	up to 95%					
Environmental conditions and noise						
Storage temperature	-25°C to +45°C					
Operating temperature	up to 40°C (1)					
Noise level (dBA)	68	69		72		
Operating altitude	1000 m					
Paralleling						
Standards and approvals						
Performance and safety	IEC/EN 62040-1, IEC/EN60950					
Performance and design	IEC/EN 62040-3					
Design and manufacturing	ISO 14001, ISO 9001, IEC 60146					
EMC immunity	IEC 61000-4					
EMC emissions	IEC 62040-2 C3					
Approvals	TÜV - LCIE - CEM - CE Mark					
Dimensions and weight (height:1900 mm(2) depth: 850 mm)						
	250	**300**	**400**	**500**	**600**	**800**
UPS without batteries						
Width	1600				3600	4200
Weight	1650	1650	2030	2070	3500	4560
Battery cubicle (depth = 840 mm and height = 1900 mm)						
10-minute autonomy, width (mm)	2500	2950	3750	(3)	(3)	(3)
Weight (kg)	3450	4450	5740	(3)	(3)	(3)
30-minute autonomy, width (mm)	4600	6700	8400	(3)	(3)	(3)
Weight (kg)	6840	8690	11200	(3)	(3)	(3)
Static bypass cubicle (depth = 840 mm and height = 1900 mm)						
Nominal power output (kVA)	800	1200	2000	3200	4800	
Width (mm)	1000	1600	2500	Contact us for details		
Weight (kg)	500	1000	1200	Contact us for details		

0: 150% from 400 kVA. **1:** For 8 hours. 35°C continuous. N.B. There is a risk of premature battery ageing above 25°C. **2:** 2000 mm for 500 kVA.
3: Site type installation recommanded, contact us for details. * Contact us for rating 500 kVA.

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