

Enterprise Networks



Telecom



Data centres



Process & Infrastructures



Three-phase UPS Galaxy

160/200/250/300/400/500/600/800 kVA

The benchmark for high-availability solutions

High energy quality: protected equipment operates at maximum efficiency

Thanks to its 'double conversion' technology, its exceptional resistance to peak currents and short-circuits, the stability of its output voltage even under very high loads, the Galaxy delivers optimum power quality.

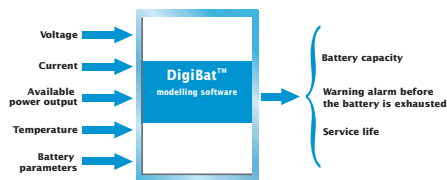
Energy savings

The efficiency of the Galaxy unit is exceptional. It is 95 % efficient, even at low loads. For example, at 400 kVA, an additional 3 % efficiency means that half the initial cost of the UPS is recovered within 5 years:

- ▶ savings in energy consumption,
- ▶ savings in the cost of air conditioning equipment.

Enhanced battery management for greater availability

Fitted as standard, the 'DigiBat™' system optimises the recharge parameters of the battery in order to increase its service life. It can also be used to calculate the available battery capacity.



By automatically checking every component of the battery, the 'battery monitoring' option can be used to predict when it may fail.



Upgradeable integration into the electrical system

- ▶ Wide range of input voltages for improved compatibility with the generating sets and reduced load on the battery.
- ▶ Progressive startup of the UPS for perfect compatibility with the generating set.
- ▶ Up to 6 units can be connected in parallel for redundancy or power extensions.
- ▶ Synchronisation with any other source in order to supply power to static transfer switches.

Protection for 200 to 1200 workstations



Data servers, storage units, backup devices, routers, etc.



Call centres, satellite communication control centres, broadcasting studios, etc.



Equipment for manufacturing in clean rooms, lithographic printing, air purification, fluid circulating pumps, etc.

THE UNINTERRUPTIBLE POWER PROVIDER

M G E
UPS SYSTEMS

Associated communication

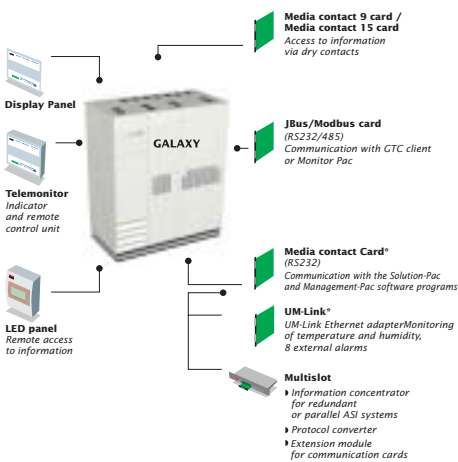
Solution-Pac software suite supplied on CD with every UPS

To control the protected servers (clean 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.

Communication cards



* The cards are provided with 'Network Management Link' package.

Simultaneous management of the UPS:

- ▶ SNMP/Web supervision,
- ▶ Optional integration of 2 cards (JBus/dry contacts).

MGE PowerServices™

1-year warranty, including batteries.

Associated services ⁽¹⁾

- ▶ Commissioning: startup of your installation in accordance with the manufacturer's instructions.
- ▶ Teleservice / E Teleservice: remote monitoring via the telephone system/Internet.
- ▶ 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: analysis and recommendations based on the technical environment.

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

Standard functions

- ▶ Double conversion topology (EMC conforming to technical standard EN 50091) with static switch and manual bypass,
- ▶ battery startup (cold start),
- ▶ DigiBat™ battery management/supervision with automatic and manual test,
- ▶ input current limitation and starting ramp for perfect compatibility with the generating sets,
- ▶ galvanic isolation of the normal AC system,
- ▶ suitable for wall mounting,
- ▶ normal standby: 500 kVA to 4.8 MVA.

Available options

- ▶ Anti-harmonic filters - THM or passive (non-compensated, with contactor or compensated),
- ▶ double-bridge rectifier,
- ▶ mains 2 isolation transformer,
- ▶ up to 6 UPS can be connected in parallel,
- ▶ external bypass unit (1 200 kVA),
- ▶ remote LED + Telemonitor indicator panel,
- ▶ Battery Monitoring (monitoring of every component of the battery),
- ▶ battery circuit-breaker unit,
- ▶ synchronisation module,
- ▶ top cable entry.

Technical characteristics

Nominal power output (kVA at PF = 0.8)	160	200	250	300	400	500	600	800
Active power output (kW)	128	160	200	240	320	400	480	640
Normal AC supply input								
Nominal voltage	380 V - 10 % to 415 V + 15 % - three-phase ⁽¹⁾							
Frequency	50 or 60 Hz +/- 10 %							
Current distortions (THDI)	< 4 % with THM filter							
Power factor	up to 0.95 with THM filter							
Bypass system input								
Voltages	380-400-415 Vrms +/- 10 % - three-phase + neutral ⁽¹⁾							
Frequency	50 or 60 Hz +/- 10 %							
Output								
Configured Ph/Ph voltages	380-400-415 Vrms +/- 1 % - three-phase + neutral ⁽¹⁾							
Frequency	50 or 60 Hz +/- 0.25 Hz, adjustable							
Permissible overloads	150 % 1 minute, 125 % 10 minutes							
Voltage distortion	THDU < 2 % ph/ph, < 5 % ph/n with linear load THDU < 3 % ph-ph, < 5 % ph-n with non-linear load							
Short-circuit capacity	2,33 In - 1 s ⁽²⁾							
Voltage fluctuation	+/- 5 % on load surge from 0 % to 100 % and from 100 % to 0 %							
Batteries								
Battery discharge times	8,10,15, 20, 30, 60 minutes, other values on request							
Type	Sealed lead-acid battery (service life 10 to 12 years)							
Overall efficiency								
At 100 % load	up to 94,5 %							
At 50 % load	up to 95 %							
Environment								
Losses to be dissipated ⁽³⁾ (in kW)	8,8	12,4	13,5	16,7	23	24,2	34,5	37,3
Storage	- 25°C to + 45°C (with batteries)							
Operation	0°C to 35°C (40°C for a period of 8 hours)							
Noise level (dBA)	< 68	< 68	< 69	< 69	< 72	< 72	< 72	< 75
Technical standards								
Construction and safety	IEC 62040-1, IEC 60950, EN 50091-1							
Performance and topology	IEC 62040-3, EN 50091-3							
Design and manufacture	ISO 14001, ISO 9001, IEC 60146							
EMC	IEC 62040-2 and EN 50091-2							
Certifications and identification marking	TÜV, CE							
Dimensions and weights of the UPS (depth = 840 mm, height = 1900 mm)								
Nominal power output (kVA)	160	200	250	300	400	500	600	800
Width (mm)	1600	1600	1600	1600	1600	3600	3600	4283
Weight (kg)	1500	1500	1650	1650	2030	3500	3500	4560
Battery compartment (depth = 840 mm and height = 1900 mm)								
10-minute autonomy, width (mm)	2100	2100	2500	2950	3750	(4)	(4)	(4)
Weight (kg)	2230	2740	3450	4450	5740	(4)	(4)	(4)
30-minute autonomy, width (mm)	2950	3750	4600	6700	8400	(4)	(4)	(4)
Weight (kg)	4450	5600	6840	8690	11200	(4)	(4)	(4)
Static bypass cubicle (depth = 840 mm and height = 1900 mm)								
Nominal power output (kVA)	250	500	800	1200	2000	3200	4800	
Width (mm)	800	1000	1000	1600	2500	Contact us for details		
Weight (kg)	250	350	500	1000	1200	Contact us for details		

1: Other voltages on request: 208, 220, 480 V. 2: 2.33 = 1,67 √2 (operation with current limiter for a peak value of 1.67 In). In = the assigned output current (for a PF = 0.8). 3: The indicated losses are produced by the UPS at nominal load with the battery in floating mode. 4: 'Site-type' installation recommended, contact us for details.

MGE UPS SYSTEMS

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