

Enterprise Networks



Telecom



Data centres



Process & Infrastructures



Three-phase UPS Galaxy PW

20/30/40/50/60/80/100/120/160/200 kVA

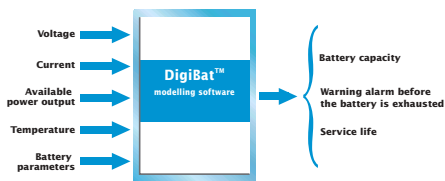
Centralised protection
with high energy quality

High energy quality: the protected equipment operates at maximum efficiency

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

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 will fail.

Anti-pollution and economy of operation

The combination of an active THM filter with the UPS means that savings can be made on energy bills and enables the size of the installation and the generating sets to be reduced:

- ▶ upstream power factor > 0.95,
- ▶ increase in the cos φ,
- ▶ Reduction of the THDI: < 4 %,
- ▶ 20 % reduction of the r.m.s. current.

Ease of operation

The display panel is intuitive, remote monitoring is easy to initiate, with secure key operations.



An upgradeable solution to keep pace with increasing requirements

Up to 4 UPS can be connected in parallel in modular form for:

- ▶ extended power capacities,
- ▶ redundancy of power sources,
- ▶ redundancy of distribution with the Upsilon STS (Static Transfer System) and synchronisation module.

Protection for 30 to
300 workstations



Servers and data storage, active network devices, etc.



Telecom equipment: MSC, communication centres, etc.



Industrial processes; programmable logic controllers, speed control processors, etc.

THE UNINTERRUPTIBLE POWER PROVIDER

M G E
UPS SYSTEMS



Standard functions

- ▶ Double conversion topology (EMC conforming to technical standard EN50091) with static switch and manual maintenance bypass,
- ▶ input current limitation and starting ramp for perfect compatibility with the generating sets,
- ▶ DigiBat™ battery/monitoring with automatic and manual test,
- ▶ Battery startup (cold start),
- ▶ long battery discharge times (up to 8 hours),
- ▶ galvanic isolation of the normal AC system,
- ▶ ECO mode for energy saving,
- ▶ media 11 dry contacts + 3 slots available for communication cards,
- ▶ multi-language display panel (15 languages),
- ▶ 500 storable events, etc.

Available options

- ▶ Anti-harmonic filters - active THM or passive (non-compensated, with contactor or compensated),
- ▶ system 2 isolation transformer, integral or external,
- ▶ up to 4 UPS can be connected in parallel,
- ▶ external manual bypass (150, 360, 600 kVA),
- ▶ remote LED indicator unit,
- ▶ kit of battery connecting cables,
- ▶ battery Monitoring (monitoring of every component of the battery),
- ▶ battery circuit-breaker kit,
- ▶ synchronisation module,
- ▶ backfeed protection,
- ▶ top cable entry.

Associated communication

Solution-Pac software suite on CD

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.

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.

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.

Status information card

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

MGE PowerServices™

1-year warranty, including batteries.

Associated services ⁽¹⁾

- ▶ Commissioning: startup of your installation in accordance with the manufacturer's specifications.
- ▶ 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.

Technical characteristics

Nominal power output (kVA at PF = 0.8)	20	30	40	50	60	80	100	120	160	200
Active power output (kW)	16	24	32	40	48	64	80	96	128	160
Normal AC supply input										
Nominal voltages	380-400-415 V +/- 10 % - three-phase (adjustable to +/- 15 %)									
Frequency	50 or 60 Hz +/- 10 %									
Current distortions (THDI)	< 4 % with THM filter									
Power factor	up to 0.96 with THM filter									
Bypass supply input										
Voltages	380-400-415 V +/- 10 % - three-phase + neutral									
Frequency	50 or 60 Hz +/- 10 %									
Output										
Configured Ph/Ph voltages	380-400-415 V +/- 1 % - three-phase + neutral									
Frequency	50 or 60 Hz +/- 0.05 %, adjustable									
Permissible overloads	150 % 1 minute, 125 % 10 minutes									
Voltage distortion	THDU < 1.5 % Ph/Ph, < 2 % Ph/N with linear load ⁽¹⁾ THDU < 3 % Ph-Ph and Ph-N with non-linear load ⁽¹⁾									
Crest factor	3:1									
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										
Double conversion mode	up to 93 %									
ECO mode	up to 97 %									
Environment										
Losses to be dissipated ⁽²⁾ (in kW)	1,5	2,2	3	3,2	4,1	5,4	7,1	8,9	10,7	14,3
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)	58	58	58	60	60	62	64	65	67	68
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 level B									
Certifications and identification marking	TUV, CE									
Dimensions and weights of the UPS (depth = 825 mm)										
Nominal power output	20	30	40	50	60	80	100	120	160	200
Width (mm)	715	715	715	715	715	1015	1015	1015	1215	1215
Height (mm)	1400 ou 1900									
Weight (kg)	490	490	490	540	540	800	800	800	1200	1200
Battery compartment (depth = 825 mm and height = 1400 mm)										
10-minute autonomy	Width (mm)	715	715	715	715	1015	-	-	-	-
	Weight (kg)	480	500	640	670	820	-	-	-	-
30-minute autonomy	Width (mm)	715	1015	1730	1730	2445	-	-	-	-
	Weight (kg)	660	945	1340	1650	2030	-	-	-	-
Battery compartment (depth = 825 mm and height = 1900 mm)										
10-minute autonomy	Width (mm)	715	715	715	715	1015	1015	1430	1430	2030
	Weight (kg)	500	530	675	690	845	1100	1370	1730	2110
30-minute autonomy	Width (mm)	715	715	1430	1430	1730	2030	2030	2745	3045
	Weight (kg)	695	945	1390	1685	1930	2475	2765	3820	4295

1: Conforming to technical standards EN50091-3 / IEC 62040-3. 2: The indicated losses are produced by the UPS at nominal load with the battery in floating mode.

MGE UPS SYSTEMS

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