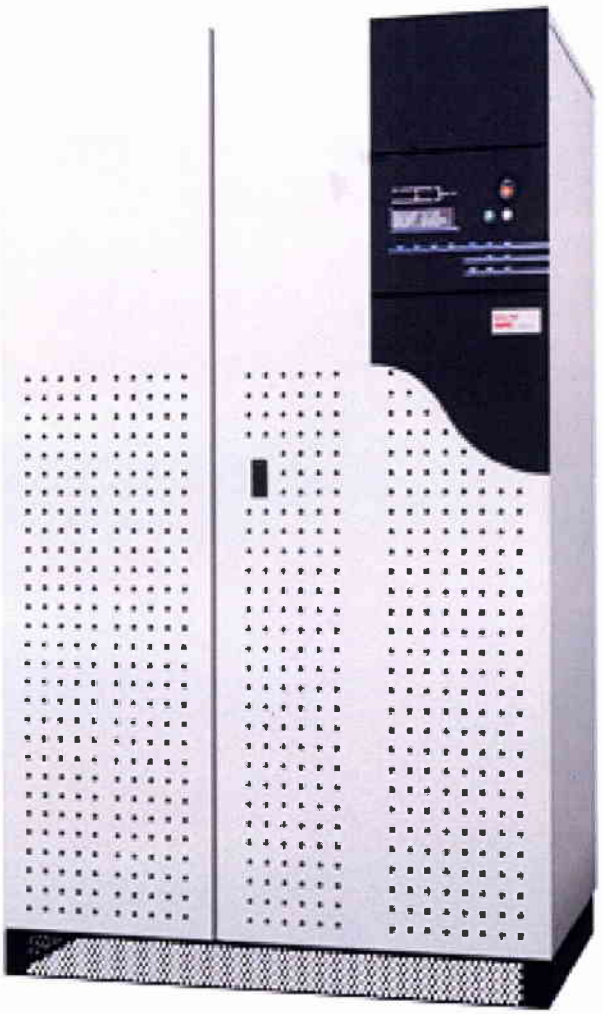
MGE Galaxy PW

Three Phase UPS

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

Centralised protection with high energy quality



Performance 3 Phase Power Protection with Adaptability to Meet the Unique Requirements of Small to Medium Datacenters, Building and Facilities, Enterprise Networks, Process & Infrastructures, Telecom.

> Flexible and adaptable
> Strong electrical features
> Intuitive monitoring
> Parallel Capable
> Output Synchronization to External Source
> Galvanic isolation on output
> High availability architectures

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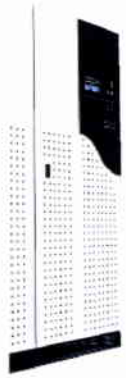
MGE Galaxy PW Benefits



Anti-pollution and economic operation

An active THM filter integrated into the UPS reduces energy costs and installation size:

> Upstream power factor > 0.95
> Reduced THDI < 4%
> 20% reduction in r.m.s. current

High power quality

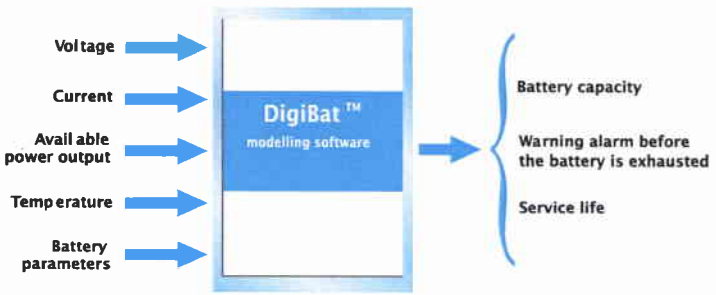
The protected equipment operates at maximum efficiency. The MGE Galaxy PW delivers optimum power quality:

> Double conversion technology
> Exceptional resistance to peak currents and short-circuits
> Output voltage stability

An upgradeable solution to keep pace with increasing requirements

Up to 4 UPSs can be connected in parallel for:

> Increased power capacity
> Redundancy of power sources
> Redundancy of distribution with the Upsilon STS and synchronisation module



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.

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Guaranteed solutions

Network administration and remote monitoring

The Galaxy PW range offers a number of standard communication solutions and accessories to adapt UPS operation to the network environment:
> Standard communications port (Media contact 11 / 6 dry contacts, 250 V, 5 A)
> Three expansion slots for other communication protocols
> MultiSlot expansion module

DigiBat™ for optimised availability

DigiBat™ optimizes battery service life and reinforces an already high degree of availability through the following functions:
> Measurements of true battery backup time, taking into account the age of the battery and the ambient temperature
> Estimation of battery service life
> Protection against deep discharges
> Regulation of battery charging voltage depending on the temperature
> Limitation of battery current

Management software

Solution-Pac is used for remote installation management. It offers all the functions listed below:
> Remote alerts via e-mail, fax, GSM or pager
> Remote restart or reset of a faulty device, without interrupting other protected equipment
> Supervision of UPS environment data and bay status
> Automatic shutdown of network operating systems before the end of the battery backup time

Optimum voltage quality

To handle the vast increase in non-linear loads, MGE Galaxy PW incorporates the most innovative solutions:
> Free-frequency IGBT technology to keep distortion below 3%
> Voltage variations less than 5% for a 100% load step change
> Capacity to supply loads with a crest factor of up to 6.6

Enhanced user interface

Communication and supervision capabilities have been optimised. Every effort has been made to increase the self-diagnostics systems:
> Multilingual graphical interface
> Analysis of 150 different system parameters
> Logging and time stamping of the last 500 events
> Indication of battery backup time

Generator operation

MGE Galaxy PW was designed precisely for optimum operation with a generator set
> Elimination of upstream harmonics
> Sequential start-up of UPSs, to limit inrush current
> Current limiting during generator operation
> Progressive start-up of UPSs when AC power returns

Oil & Gas Industry application, etc.,

Telecom equipment:
MSC, communication centres, etc.

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

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Technical characteristics

Nominal power output (kVA at PF = 0.8)	20	30	40	50	60	80	100	120
Active power output (kW)	16	24	32	40	48	64	80	96
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
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
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	TÜV, CE							
Dimensions and weights of the UPS (depth = 825 mm)								
Nominal power output	20	30	40	50	60	80	100	120
Width (mm)	715	715	715	715	715	1015	1015	1015
Height (mm)	1400 ou 1900					1900	1900	1900
Weight (kg)	490	490	490	540	540	800	800	800
Battery compartment (depth = 825 mm and height = 1400 mm)								
10-minute autonomy Width (mm)	715	715	715	715	1015	-	-	-
Weight (kg)	480	500	640	6 70	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	715	1015	1015	1430
Weight (kg)	500	530	675	690	845	1100	1370	1730
30-minute autonomy Width (mm)	715	715	1430	1430	1730	2030	2030	2745
Weight (kg)	695	945	1390	1685	1930	2475	2765	3820

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.
* Standard Configuration – Back-up time at 70-75% load depending upon the available battery capacity.

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