

MGE Galaxy PW

Three Phase UPS

160 / 200 kVA



Performance 3 Phase Power Protection with Adaptability to Meet the Unique Requirements of Small to Medium Datacenters, Building and Facilities

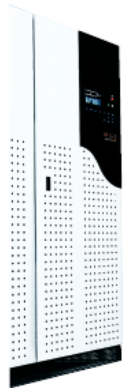
- > Flexible and adaptable
- > Strong electrical features
- > Intuitive monitoring
- > Parallel Capable
- > Output Synchronization to External Source
- > Galvanic isolation on output
- > High availability architectures

MGE Galaxy PW Benefits

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



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

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



MGE Galaxy PW 160/200 kVA

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

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

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

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

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

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



Technical characteristics

UPS Rating kVA/KW	160/128	200/160
Normal AC supply input		
Nominal voltages (V)	380-400-415 V +/- 15 % - three-phase(1)	
Frequency (Hz)	50 or 60 Hz (+/-10%)	
Current distortions (THDI)	< 4% with PFC THM filter	
Power factor	up to 0.96 with PFC THM filter	
Bypass supply input		
voltages (V)	380-400-415 V +/- 15 % - three-phase + neutral	
Frequency (Hz)	50 or 60 Hz (+/-10%)	
Output		
Configured Ph/Ph voltages	380-400-415 V +/-1% - three-phase + neutral	
Frequency (Hz)	50 or 60 Hz +/- 0.04%	
Permissible overloads	165% 1 minute, 125% 10 minutes	
Voltage distortion	THDU 2% Ph/N(2)	
Crest factor	3:1	
Short circuit current	Up to 6.7 x nominal current(3)	
Batteries		
Battery discharge times	8, 10, 15, 20, 30, 60 minutes, other times available 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%	
Environmental		
Losses to be dissipated(2) (in kW)	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)	
Audible Noise (dBA)	67	68
Technical standards		
Performance and safety	IEC/EN 62040-1, IEC/EN 60950	
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 Level 3	
Approvals	TÜV - LCIE - CEM - CE Mark	
Dimensions and weights of the UPS (depth = 825 mm)		
Nominal power output	160	200
Width (mm)	1215	1215
Height (mm)	1900	1900
Weight (kg)	1200	1200
Battery compartment (depth = 825 mm and height = 1900 mm)		
10-minute autonomy:		
Width (mm)	1430	2030
Weight (kg)	2110	2785
30- minute autonomy:		
Width (mm)	3045	4060
Weight (kg)	4265	5670

1: other voltages to order: 208 - 220 - 480 V. 2: for non linear loads. 3: for short circuit on one phase.

4: The indicated losses are produced by the nominal-usage power cells and by the battery in floating mode.