

# 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**

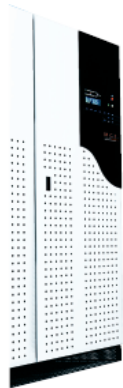
- > Flexible and adaptable
- > Strong electrical features
- > Intuitive monitoring
- > Parallel Capable
- > Output Synchronization to External Source
- > Galvanic isolation on output
- > High availability architectures

# 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

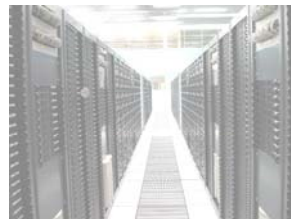
To handle the vast increase in non-linear loads, MGE Galaxy PW incorporates the most innovative solutions:

- > 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
<b>Normal AC supply input</b>		
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	
<b>Bypass supply input</b>		
voltages (V)	380-400-415 V +/- 15 % - three-phase + neutral	
Frequency (Hz)	50 or 60 Hz (+/-10%)	
<b>Output</b>		
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)	
<b>Batteries</b>		
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)	
<b>Overall efficiency</b>		
Double conversion mode	up to 93%	
ECO mode	up to 97%	
<b>Environmental</b>		
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
<b>Technical standards</b>		
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	
<b>Dimensions and weights of the UPS (depth = 825 mm)</b>		
Nominal power output	160	200
Width (mm)	1215	1215
Height (mm)	1900	1900
Weight (kg)	1200	1200
<b>Battery compartment (depth = 825 mm and height = 1900 mm)</b>		
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.