

# Galaxy 3000

10 to 30 kVA

MGE  
UPS SYSTEMS



**Innovative protection  
and high availability  
for your computer and  
telecom applications**

**Galaxy 3000 three-phase double-conversion UPSs from 10 to 30 kVA. The first UPS range with an absolute sense of protection.**

▶ **An innate sense of power perfection**

An IGBT rectifier for energy savings and total control of harmonics.

▶ **An ear tuned to your needs**

A wide choice of backup times and redundancy solutions.

▶ **A comprehensive view of communication**

A multi-language colour display.

▶ **Tasteful design**

A choice of four colours.

▶ **Tangible quality**

ISO 9001 certification.

[www.mgeups.com](http://www.mgeups.com)

**M G E**  
UPS SYSTEMS

THE MERLIN GERIN KNOW-HOW

*Nothing will stop you now*

## Maximum flexibility to meet all your needs

▶ backup times from 7 minutes to 8 hours provided by batteries with 5-year or 10-year service lives.

▶ modular design for easy upgrading to more power or redundancy:

- parallel connection of up to four units,
- hot standby configurations,
- source redundancy with the Upsilon STS (Static Transfer Switch).

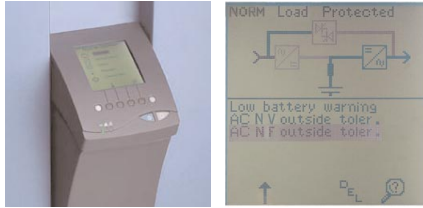
▶ wide input-voltage window extending down to -37% of the rated voltage for greater system compatibility and fewer transfers to battery power.



Galaxy 3000 15 kVA and 30 kVA versions with their battery cabinets.

## A comprehensive view of communication

▶ the colour graphical display in 15 languages ensures immediate comprehension of all measurement data, diagnostics, alarms and mimic diagrams,



- ▶ programmable relay card (standard),
- ▶ 3 slots for additional communications cards: XML-Web card, SNMP, JBus/Modbus U-Talk (RS 232-ASCII), USB or relay (AS400),
- ▶ terminal block for emergency power off ,
- ▶ Multislot communications expansion module.



Insertion of an SNMP communications card.

## MGE UPS SYSTEMS

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## Power Factor Correction (PFC) system

This system implements a highly innovative IGBT rectifier offering a number of advantages:

- ▶ no electrical disturbances on the upstream system (THDI < 3% and PF > 0.99),
- ▶ 100% compatibility with engine generator sets,
- ▶ up to a 20% reduction in the energy consumption of the installation,
- ▶ compliance with IEC 61000-3-4 standard



## General characteristics

Rated power (kVA)	10	15	20	30
Active power (kW)	8	12	16	24
<b>Normal AC input</b>				
Rated voltage	380-400-415 - 3-ph. + neutral (up to 480V with Autotransfo)			
Voltage range (4)	250 V min. to 440 V max. (1)			
Frequency	50/60 Hz			
Frequency window	47 to 63 Hz			
Power factor	> 0.99 (cos phi = 1)			
Current distortion (THDI)	< 5% (2)		< 3% (2)	
<b>Output</b>				
Voltage under steady-state condition (5)	380-400-415 V +/- 1% - 3-phase + neutral			
Frequency (settable from +/- 8% to +/- 0.5%)	50 or 60 Hz +/- 1%			
Voltage transients	+/- 3% for 0% to 100% and 100% to 0% load step changes			
Voltage distortion	THDU < 2% ph-ph and ph-n for linear loads			
Permissible overload	THDU < 3% ph-ph and ph-n for non-linear loads 120% for 90 seconds, 150% for 1 second			
<b>Overall efficiency</b>				
	Up to 97% in ECO mode			
<b>Batteries</b>				
Backup time	10 minutes to 8 hours, 5 or 10-year service life			
Standard backup time (5-year batteries) (6)	10/12 min (3)	10/12 min (3)	10/12 min (3)	9/10.5 min (3)
Standard backup time (10-year batteries) (6)	12/14 min (3)	7/8.5 min (3)	12/14 min (3)	7/8.5 min (3)
<b>Environment</b>				
Colour	RAL 9002 or metallised grey, blue or green			
Ambient temperature	20° to 25° C recommended, 0° to 35° C continuous, 0° to 40° C (8h)			
Noise level (dBA)	<50	<50	<53	<53
<b>Standards</b>				
Construction and safety	IEC 62040-1, IEC 60950, EN 50091-1			
Performance and topology	IEC 62040-3, EN 50091-3			
Design and manufacturing	ISO 14001 - ISO 9001			
EMC (7)	Level B according: IEC 62040-2 / EN 50091-2 / EN 55011 / EN 55022			
Harmonics	IEC 61000-3-2/4			
Certification and marking	TÜV, CE			
<b>Galaxy 3000 UPS dimensions and weights</b>				
Rated power (kVA)	10	15	20	30
Width (mm)	655		670	
Height (mm)	1420		1600	
Depth (mm)	565		685	
Weight (kg)	330	380	470	570
<b>Galaxy 3000 battery cabinet dimensions</b>				
Rated power (kVA)	10	15	20	30
Width (mm)	650		850	
Height (mm)	1420		1600	
Depth (mm)	565		685	

(1) 323 to 440 V at Pn.

(2) for a source THDU < 2%.

(3) linear load PF = 0.8 / standardised non-linear load.

(4) power derating for voltage range < 323V

(5) line voltage drop compensated up to 5%

(6) typical values after 3 discharge cycles

(7) Level A for parallel and battery extension configurations

## Main functions

- ▶ double-conversion (on-line) topology with IGBT-based PFC rectifier,
- ▶ complete battery monitoring,
- ▶ intermittent charging to extend battery life,
- ▶ ECO mode,
- ▶ cold start,
- ▶ maximum EMC compliance (level B),
- ▶ choice of four colours.

## Options

- ▶ communications cards (SNMP, JBus/Modbus, U-Talk, USB or relay) and the Multislot communications expansion module, XML-Web card
- ▶ backfeed protection,
- ▶ CLA charger for long backup times,
- ▶ Solution-Pac and Management-Pac software packages.

