

# MGE Galaxy 5000

*Flexible Three Phase Power Protection*



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

- > Flexible and adaptable
- > Advanced electrical features
- > Intuitive monitoring
- > Parallel capable
- > High availability architecture components

# 20 kVA to 120 kVA

## High power availability

**The MGE Galaxy 5000 has been designed for continuous operation**

- > Fault tolerance with built-in 100% rated bypass static switch
- > Redundant components for greater reliability
- > High overload capacity to improve downstream discrimination
- > Extended battery backup time



## Flexible and upgradeable

**The MGE Galaxy 5000 adapts to your changing needs**

- > Expandable power ranges
- > Parallel up to 6 modules for higher capacity or redundancy
- > Easy integration with networking and monitoring systems
- > A choice of backup time from 5 minutes to 8 hours
- > Compatible with inductive and leading power factor loads
- > Field upgradeable from single to parallel



## Low total cost of ownership

**The MGE Galaxy 5000 helps to minimize your infrastructure costs**

- > Small footprint
- > Power factor corrected input prevents the need for oversizing cables, circuit breakers and generator
- > Efficiency in on-line double conversion mode up to 93.5%



## Features that make the difference

### IGBT based technology for power quality

Supplies clean, stable power to sensitive loads ensuring critical power protection, optimum performance, and extended life

### Parallel operation

Connect as many as 6 units in parallel for capacity and redundancy to grow with your power requirements



### Dual input

Allows for connection to two separate input sources for increased availability

### Redundant components

Back up for the Main Intelligence Module provides increased availability

### Built-in static and maintenance bypass

Enables the UPS to transfer the load to utility power, without interruption, in the event of heavy overload or fault

### Optional auxiliary gear

- > Input/Output transformers
  - Available in 380V/400V/415V
  - Line up and Match cabinet
  - In case of the need to change Earthing system arrangement
  - Bond Neutral to Ground
- > Wall mount battery disconnect
- > Matching battery cabinets
  - Up to four (4) enclosures can be connected to the UPS for extended run times of up to 4 hours
- > Distribution
  - panel board
- > Matching external maintenance bypass
- > Parallel system bypass cabinets
- > Communication cards
  - RS232 / RS485 / Dry Contact
  - Network Management Card
- > Bottom entry cabinets
- > 65kAIC rating
- > Remote alarm panel

# Technical characteristics

UPS Rating kVA/KW (PF = 0.8)	20/16	30/24	40/32	60/48	80/64	100/80	120/96
<b>Normal AC supply input</b>							
Input voltage range (V)	250V to 470V 3-phase						
Inputs Mains 1 and Mains 2	Separate or common						
Frequency	50Hz / 60Hz +- 8%						
Input Power Factor	> 0.99						
Input current total harmonic distortion (THDI)	< 3%						
<b>Bypass system input</b>							
Nominal input voltage	340V to 470V 3-phase + neutral						
Frequency	50Hz / 60Hz ± 8%						
<b>Output</b>							
Output Voltages (V)	380V - 400V - 415V +-3% 3-phase + neutral						
Frequency (Hz)	50Hz / 60Hz						
Voltage Regulation	+- 1%						
Overload	150% 1 minute, 125% 10 minutes						
Output voltage total harmonic distortion	THDU < 2%						
Max load crest factor	3:1						
<b>Overall efficiency</b>							
Double conversion mode	up to 94%						
Economy mode	up to 97%						
<b>Environmental</b>							
Storage temperature	-25°C to +45°C						
Operating temperature	up to 40°C (2)						
Operating altitude	1000 m						
<b>Parallel-connection</b>							
Modular	up to 6 modules						
<b>Standards and approvals</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 - 2 to 6						
EMC emissions	IEC 62040-2 C3						
Approvals	TUV - LCIE - CEM - CE Mark						
<b>Dimensions and weights (depth = 850 mm and height = 1900 mm)</b>							
	20	30	40	60	80	100	120
UPS without batteries (width in mm)	710						
Weight	400 kg			520 kg			
UPS + built-in batteries (width in mm)	1010						
From 5 minutes to 35 minutes (3)			738 kg	888 kg	1050 kg		
From 10 minutes to 50 minutes (3)	732 kg		888 kg	975 kg			
From 15 minutes to 90 minutes (3)			975 kg				
From 20 minutes to 110 minutes (3)	738 kg	888 kg					
From 30 minutes to 120 minutes (3)	888 kg	975 kg					
<b>Battery cubicles (width and weight)</b>							
From 5 minutes to 35 minutes (3) (width in mm)	710						
From 5 minutes to 35 minutes (3) (weight)	885 kg					980 kg	
From 10 minutes to 50 minutes (3) (width in mm)	710				1010		
From 10 minutes to 50 minutes (3) (weight)	885 kg					1142 kg	1307 kg
From 15 minutes to 80 minutes (3) (width in mm)	710			1010	1010	2x1010	
From 15 minutes to 80 minutes (3) (weight)	885 kg			1142 kg	1307 kg	1764 kg	
From 30 minutes to 120 minutes (3) (width in mm)	710		1010	2x710	710+1010	2x1010	
From 30 minutes to 120 minutes (3) (weight)	882 kg		1307 kg	1764 kg	2439 kg	2742 kg	
Transformer Cabinets( HeightxWidth xDepth)	1900mm x 712mm x 848mm						

1: At 70% nominal load. 2: There is a risk of premature battery ageing above 25°C. 3: From 100% to 30% nominal load.