



# APC

## MGE Galaxy 5000

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

The recommended power protection for all critical applications



20-120 kVA state-of-the-art three-phase power protection designed to meet a wide range of requirements from medium data centers to industrial and facilities applications

- Upgradable power ranges
- Internal maintenance bypass
- Intuitive monitoring
- Parallel capable
- Front access servicing
- High power availability



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## Features and benefits

### Flexible three-phase power protection designed to meet a wide range of requirements, from medium data centers to industrial and facilities applications.

The MGE Galaxy™ 5000 offers state-of-the-art technology that increases performance and reliability, protecting against all power quality disturbances while allowing you to customize a solution to meet your unique specifications. The space-saving reduced footprint, power factor corrected input to prevent oversizing cables, circuit breakers, and generator result in lower total cost of ownership and overall customer savings. Upstream harmonics management allows a generator-friendly installation and flexible configurations for even the most demanding designs. Features such as parallel capability for both capacity and redundancy, full front access for ease of serviceability, user-friendly graphical display with multiple language options, and SNMP with network-based power management options make the Galaxy 5000 one of the easiest UPS units in its class to manage and maintain.

### Galaxy 5000

#### High-power availability

**Fault tolerance** Built-in 100 percent rated static bypass switch prevents interruption by allowing load transfer to utility power during heavy overloads

**Redundant components** Provides increased backup for greater reliability and ensures continuous operation

**High overload capacity** Improves downstream circuit discrimination

#### Installation and serviceability

**Easy to install** All connections are made through the front, eliminating the need for rear or side access

**Front access servicing** Simplifies installation and maintenance while minimizing space requirements

**Multiple levels of service** With package or individual service component options, our services are structured for you to choose what APC™ can do for you

#### Flexible and upgradeable

**Expandable power ranges** Scalable power levels to accommodate varying power requirements

**Higher capacity or redundancy** Parallel up to six modules to adapt to increasing power needs

**Simple integration** Easily works with networking and monitoring systems

**Extended backup options** Choice of backup times from five minutes to eight hours to meet varying requirements

**Compatible** Operates with inductive and leading power factor loads

**Field upgradeable** Change from single to parallel capability, increasing total power capacity, by simultaneously using multiple UPS units

#### Low total cost of ownership

**Power factor corrected input** Prevents the need for oversizing cables, circuit breakers, and generators

**Efficient** Up to 93 percent in online double conversion mode



## MGE Galaxy 5000 features

- 1 IGBT based technology for power quality**  
Supplies clean, stable power to sensitive loads, ensuring critical power protection, optimum performance, and extended life
- 2 Dual input**  
Allows for connection to two separate input sources for increased availability
- 3 Parallel operation**  
Connect as many as six units in parallel for capacity and redundancy to grow with your power requirements
- 4 Redundant components**  
Provides increased backup for greater reliability and ensures continuous operation
- 5 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



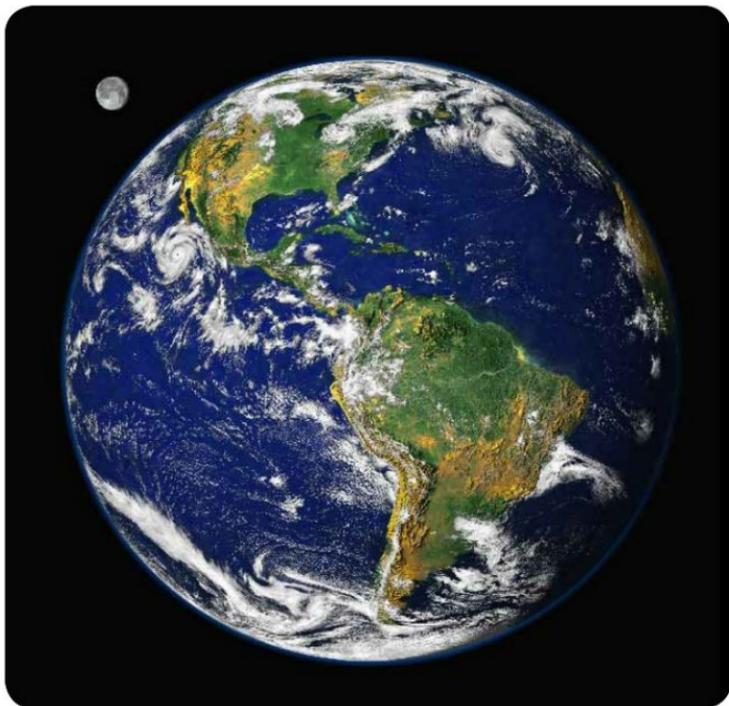
## MGE Galaxy 5000 options

### Integrating input isolation transformer

The MGE Galaxy 5000 can be equipped with an input isolation transformer fully integrating into the core module. Integrating the transformer directly into the module saves footprint and provides all the benefits of galvanic isolation including providing a very robust buffer between the utility and the critical load.

### Options

- Parallel system bypass cabinets
- IP 32 rated cabinets
- External maintenance bypass
- Wall mounted or stand alone
- Remote alarm status panel (RASP)
- Remote summary alarm panel (RSAP)
- 42 pole distribution in a matching cabinet
- Top cable entry cabinet
- Communications cards
- Advanced power management software



## Comprehensive service offering

### Warranty

- One-year parts, labor, and travel included
- Next business day response time
- Eight-hour and four-hour response upgrade available in many locations

### Start-up

Start-up service with 5x8 scheduling is available with each MGE Galaxy 5000 to ensure optimal performance; start-up service is required for full coverage under the factory warranty. Optionally, you can upgrade to 7x24 scheduling.

### Preventive maintenance service

An examination of your system designed to ensure optimal performance; 5x8 scheduling is standard, with an option to upgrade to 7x24 scheduling.

### Assembly service

APC authorized service personnel will be dispatched to your site to ensure proper assembly of the MGE Galaxy 5000.

### On-site services

Four-hour, next day, or next business day response-time options. A factory trained technician will arrive on site to diagnose or repair your system.

### Project management

Complete your data center project on time and within budget.





## Technical specifications

Rated power (kVA/kW)	20/18	30/27	40/36	60/54	80/72	100/90	120/108	
<b>Normal AC supply input</b>								
Input voltage (V)	250V <sup>1</sup> to 470V, three phase							
Normal and bypass AC inputs	Separate							
Frequency (Hz)	45 -66Hz							
Input power factor	>99							
THDI	<5% full load						<3% full load	
<b>Bypass AC Input</b>								
Input voltage range	(380V, 400V , 415V) +/- 10%							
Frequency	50hz/60hz +/- 10%							
<b>Output</b>								
Phase to phase output voltage (V)	380/400/415V, three phase + neutral							
Load power factor	0.9							
Output frequency	50 or 60 Hz +/- 0.1%							
Overload capacity utility operation	125% for 10 minutes; 150% for 60 seconds							
Output voltage regulation	+/- 1%							
Voltage distortion(THD)	<2% Phase to phase and Phase to Neutral for non-linear loads							
Output voltage tolerance	+1% static, +/- 2% at 100% load step							
<b>Overall efficiency</b>								
Efficiency at full load (AC-AC)	87%	90%	92%			>93%		
ECO mode	up to 97% <sup>2</sup>							
<b>Communication and management</b>								
Control panel	Multifunction LCD, status, and control console							
<b>Dimensions and weights</b>								
UPS without battery (H x W x D)	1900 x 712 x 850 mm							
UPS with internal battery (H x W x D)	1900 x 1112 x 850 mm							
Weight in kg (UPS without battery or with built-in battery)	400 kg min. 2748 kg max.							
Battery cabinet 700 mm (H x W x D)	1900 x 712 x 850 mm, weight 135 kg							
Battery cabinet 1000 mm (H x W x D)	1900 x 1012 x 850 mm, weight 150 kg							
Auxiliary cabinet 700 mm (H x W x D)	712 x 1900 x 848 mm, weight 135 kg min. 150 kg max.							
Auxiliary cabinet 1000 mm (H x W x D)	1012 x 1900 x 848 mm, weight 135 kg min. 150 kg max.							
Auxiliary cabinet 700 mm with isolation transformer (H x W x D)	712 x 1900 x 848 mm, weight 118 kg min. 527 kg max.							
Auxiliary cabinet 1000 mm with isolation transformer (H x W x D)	1012 x 1900 x 848 mm, weight 118 kg min. 527 kg max.							
Parallel system bypass cabinet (H x W x D)	1000 x 800 x 303 mm min. 1900 x 1010 x 850 mm max. weight 71 kg min. 280 kg max.							
<b>Regulatory</b>								
Safety	ISO9001							
EMC/EMI/RFI	IEC 62040, IEC62040-1-2, IEC62040-3							
Approvals	CE, TUV, GOST							
<b>Environmental</b>								
Operating temperature	0-40 degrees C							
Storage temperature	0-40 degrees C							
Relative humidity	0-95% non-condensing							
Operating elevation	0-1000 metres							
Storage elevation	0-12,000 metres							
Max. audible noise at 1m from unit	< 66 dBA					< 63 dBA		

<sup>1</sup> Depending on load level; <sup>2</sup> Only available in unitary products

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