

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

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 94.5 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

Integrated input isolation transformer

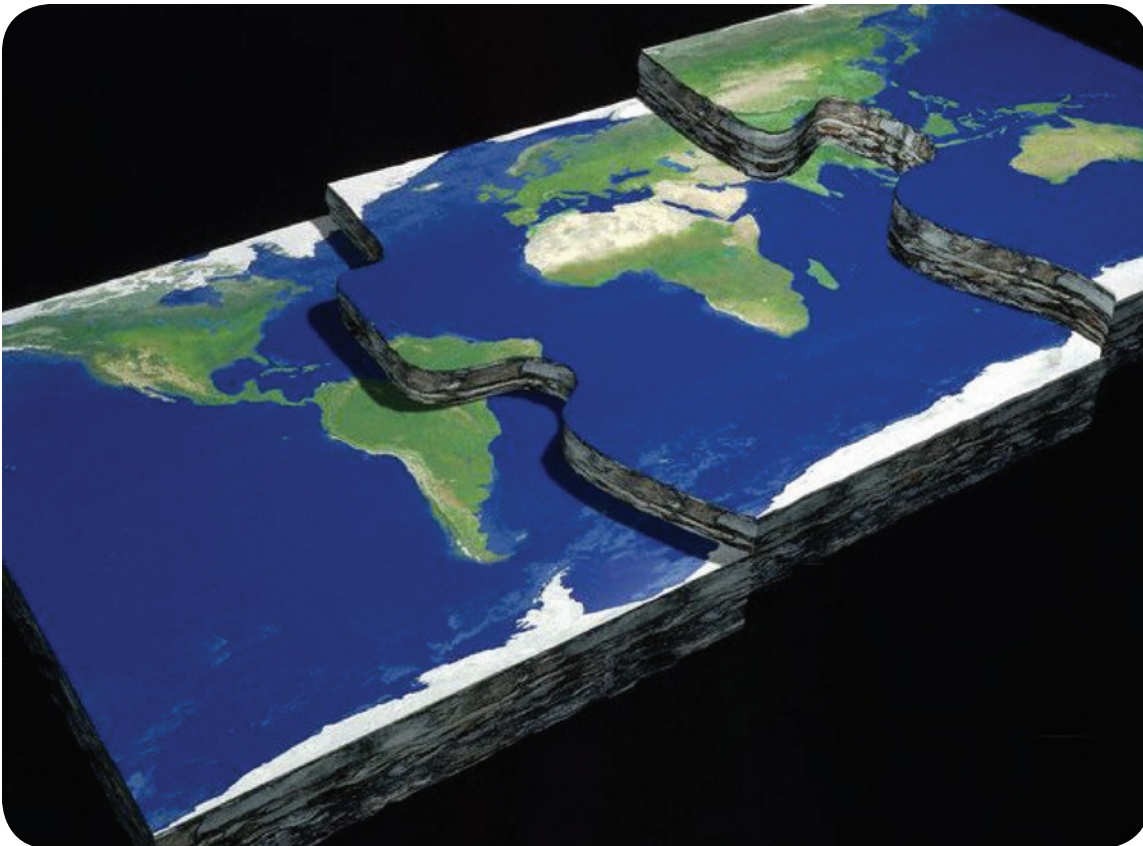
The MGE Galaxy 5000 can be equipped with an input isolation transformer fully integrated into the core module. Integrating the transformer directly into the module saves footprint and provides all the benefits of galvanic isolation including providing a very robust buffer between the utility and the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

Options

- Parallel system bypass cabinets
- 65kAIC rating
- 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
- Seismic anchors
- Top cable entry cabinet
- Communications cards
- Advanced power management software

Seismic certification

The MGE Galaxy 5000 has been certified by independent professional engineers to Seismic ZONE 4 specifications, using the brackets supplied by APC by Schneider Electric™ and fastening into the substrate as noted in the installation drawings.



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
Normal AC supply input							
Input voltage (V)	380-440 V						
Frequency (Hz)	50 or 60 Hz +/-5%						
Input power factor	>.99 at full load						
THDI	<5% at full load						
Input voltage tolerance utility operation	400 V core (342 to 470 with back-feed option)						
Dual mains input	Yes						
Input voltage tolerance bypass	+10% standard +4, 6, 8, 10% (programmable)						
Back-feed protection	Built-in back-feed contactor						
Output							
Nominal output voltage (V)	380-440 V						
Efficiency at full load (AC-AC)	87%	90%	92%			93%	
Load power factor	0.5 leading to 0.5 lagging						
Output frequency	Mains synchronized in normal operation 50Hz + 0.05% free running						
Overload capacity utility operation	125% for 10 minutes, 150% for 60 seconds						
Overload battery utility operation	150% for 60 seconds						
VTHD	<1% L-L and L-N for non-linear loads (<2% max)						
Output voltage tolerance	+1% static, +5% at 100% load step						
Communication and management							
Control panel	Multifunction LCD, status, and control console						
Dimensions and weights							
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)	951 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						
Auxillary cabinet 700 mm (H x W x D)	712 x 1900 x 848 mm, weight 135 kg min, 150 kg max						
Auxillary cabinet 1000 mm (H x W x D)	1012 x 1900 x 848 mm, weight 135 kg min, 150 kg max						
Auxillary cabinet 700 mm with Isolation transformer (H x W x D)	712 x 1900 x 848 mm, weight 118 kg min, 527 kg max						
Auxillary 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						
Regulatory							
Safety	ISO9001						
EMC/EMI/RFI	IEC 62040, IEC62040-1-2, IEC62040-3						
Approvals	CE, TUV, GOST						
Environmental							
Operating temperature	0-40 degrees C						
Storage temperature	0-40 degrees C						
Relative humidity	0-95% non-condensing						
Operating elevation	0-1000 meters						
Storage elevation	0-12,000 meters						
Max. audible noise at 1 m from unit	< 65 dBA					< 63 dBA	