

MGE Galaxy 5000

40/50/60/80/100/130 kVA

The recommended power protection for all critical applications



40 – 130 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
- UL® 924 rated battery cabinets (40 kVa and 50 kVA)

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™ by Schneider Electric™ can do for you

Flexible and upgradable

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 upgradable 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.

Seismic certification

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

Options

- Parallel system bypass cabinets
- 65 kAIC rating
- IP32 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
- UL 924 rated battery cabinets for 90-minute runtimes. (40 and 50 kVA models)



StruxureWare for Data Centers Software Suite

APC by Schneider Electric UPS units and secure power systems are a core component of any architecture designed for highly critical applications, such as data centers, industry environments, infrastructure, and buildings.

Intelligent energy management of these systems is enabled by Schneider Electric EcoStruxure™ integrated hardware and software system architecture. StruxureWare™ software applications and suites are a key element of the EcoStruxure architecture. The software helps maximize system reliability and optimize operational efficiency.

StruxureWare for Data Centers software collects and manages real-time information about assets, resource use, and operation status throughout the data center life cycle. This data center infrastructure management (DCIM) software fully integrates the Galaxy 5000 UPS. With full system visibility, managers can monitor and apply this information in order to optimize data center performance to meet IT, business, and service-oriented goals.



A Comprehensive Portfolio of Services

Schneider Electric Critical Power & Cooling Services (CPCS) provides the highest quality services and solutions by trained and trusted professionals. Our world-class services offer a smart way to build, operate, and maintain your critical applications, ensuring the right people, in the right place, at the right time.

Assembly and Start-Up Service

Assembly and Start-Up Service by a certified Field Service Engineer (FSE) ensures full factory warranty coverage. A Schneider Electric-certified installation ensures your equipment is properly and safely configured for optimal performance. This service features a standard eight-hour, five-day response time, with upgrades available for off-business hours.

On-site Warranty Extension Service

In the event of a system issue, an FSE will arrive by the next business day (or faster with upgrades) to isolate, diagnose, and correct the problem in as little time as possible, minimizing downtime.

Advantage Plans

Flexible service packages offer hassle-free system maintenance to improve uptime at a predictable cost. The Advantage Plus, Prime, Ultra, and Max are full-service packages that include technical support, preventive maintenance, quick on-site response, and remote monitoring. Response time upgrades are available.

Remote Monitoring Service (RMS)

RMS is an economical and easy-to-use Web-based service that lets you quickly respond to environmental or system changes. Trained technicians provide secure 24-hour monitoring of your physical infrastructure to diagnose and resolve problems before they become critical.

Preventive Maintenance

Preventive Maintenance on-site examinations of your critical systems are designed to prevent problems and keep your system running at maximum efficiency.



Technical specifications

Rated power (kVA/kW)	40/36	50/45	60/54	80/72	100/90	130/117
Normal AC supply input						
Input voltage (V)	480 V core, 3 wire + G (220 V, 208 V, 600 V w/ aux transformer 4 wire + G)					
Frequency (Hz)	60 Hz +/-5%					
Input power factor	>.99 at full load					
THDI	<5% at full load					
Input voltage tolerance utility operation	480 V core (166 – 600 V with aux transformer)					
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)	480 V core, 3 wire + G (220 V, 208 V, 600 V w/ aux transformer 4 wire + G)					
Efficiency at full load (AC-AC)	93%	93.5%	94.5%			
Load power factor	0.5 leading to 0.5 lagging					
Output frequency	Mains synchronized in normal operation 60 Hz + 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	Multi-function LCD, status, and control console					
Dimensions and weights						
UPS	76" H x 28" W x 33" D all kVA ranges Weights minimum: 20 – 60 kVA 881 lb., 80 – 130 kVA 1,147 lb. Weights maximum: 20 – 60 kVA 2,149 lb., 80 – 130 kVA 2,314 lb.					
Top entry cabinet	75" H x 14" W x 33.42" D					
Battery cabinet	75" H x 26" W x 33.42" D					
Battery cabinet	75" H x 32" W x 33.42" D					
Battery cabinet	75" H x 48" W x 33.42" D					
Matching maintenance bypass	75" H x 28" W x 33.42" D					
Transformer cabinet	75" H x 28" W x 33.42" D					
Distribution cabinet	75" H x 42" W x 33.42" D					
Parallel system bypass cabinet	(480 V Only) 28" or 75" H x 42" W x 33.42" D					
Regulatory						
Safety	UL 1778, ISO9001, FCC class A					
EMC/EMI/RFI	EN50091-2 IEC 62040-2 FCC15A					
Approvals	CE, UL 924 for 40 – 50 kVA battery cabinets					
Environmental						
Storage temperature	-13 °F to 113 °F					
Operating temperature	UPS (32 °F to 104 °F), bat. (66 °F to 77 °F)					
Relative humidity	0 – 95% non-condensing					
Operating elevation	< or = 3,333 feet					
Storage elevation	< or = 40,000 feet					
Max. audible noise at 1 m from unit	65 dBA			63 dBA		