

MGE Galaxy PW

150/180/200/225 kVA

Time-tested reliability



150 – 225 kVA robust three-phase power protection designed to meet a wide range of requirements from medium data centers to industrial and facilities applications

- Parallel capability up to four units for capacity or redundancy
- Top or bottom entry
- Low kVAR input filter
- Integrated battery testing and cycle monitoring
- Extended runtimes available

Features and benefits

Robust three-phase power protection designed to meet a wide range of requirements from data centers to industrial and facilities applications

The MGE Galaxy™ PW provides the time-tested reliability of traditional three-phase power protection for small to medium data centers and industrial and facilities applications. Online double conversion technology and zero transfer time for critical loads protect against power disturbances and contribute to higher availability, while the full-featured dry contact relay card provides simplified monitoring capabilities. The Galaxy PW delivers one of the highest power densities available, parallel capability for both capacity and redundancy, and advanced battery management that ensures the reliability of the UPS. Standard features such as front-panel access, user-friendly operator interface, dual feed input, and standard on-site warranty services enhance serviceability.

Galaxy PW

Generator friendly technology

- Leading power factor limited on the input
- Need for costly generator oversizing eliminated
- Common UPS generator culpability issues eliminated
- Passive inductors/caps, no hard switching of capacitors to maintain lagging/near lagging power factor
- Low THDI, no excessive heating/de-rating of alternator

Parallel capability

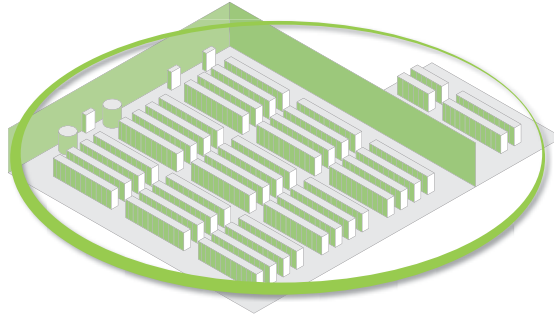
- Parallel capability for capacity and redundancy up to four UPS units
- No extra paralleling gear required, saving valuable space and cost
- Easy cable landing facilitated by a system-level wraparound maintenance bypass

Serviceability

- Front access servicing-installation and maintenance of all components can be carried out without access to the rear or sides of the cabinet.
- Multiple levels of service
- With the option of packages or individual service components, our services are structured to allow you to pick and choose what you would like APC™ by Schneider Electric™ to do for you.

User friendly interface

- A back-lit, wide-angle graphic display allows clear messages presenting detailed information on diagnostics and UPS status.
- Event log for all alarms and events including UPS and battery life cycle data
- LED mimic diagram
- Battery and UPS cycle monitor
- Self-diagnostic report



MGE Galaxy PW features



- 1 Double conversion online topology**
 - True isolation between the input and output
 - Independence of the input and output voltages and frequency
 - No-break transfer to battery or bypass power
 - Does not rely on the batteries for frequency stabilization
- 2 Fault tolerant circuitry**
 - Fast current limiting avoids overloading the inverter while the robust static bypass switch feeds enough utility power to clear the fault. The result is that the load will stay protected and the UPS will remain intact.
- 3 Input power factor correction**
 - Eliminates harmful distortion that is reflected back onto the utility from the UPS from disturbing sensitive equipment sharing the utility power
- 4 Digital power quality management**
 - Output created from hundreds of variable width pulses (pulse width modulation)
 - Control loop compares output to a references sine wave and makes adjustments or correction pulses to maintain a “power quality envelope.”
- 5 Dual mains input/output**
 - Allows for top or bottom feed connection to two separate power inputs for increased availability

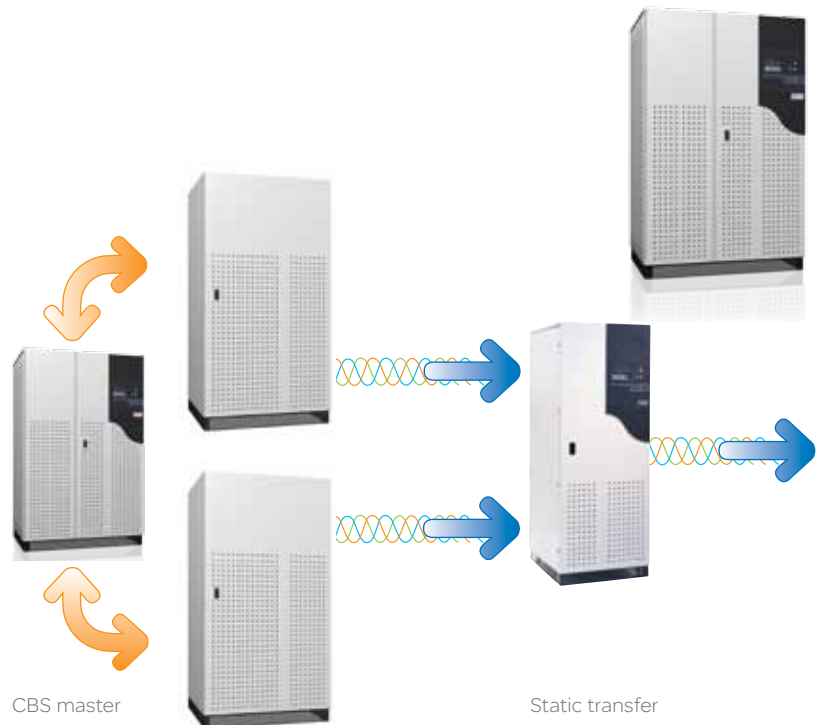
Optional auxiliaries

Critical bus synchronization

- The CBS module keeps the outputs of two UPS modules in sync with each other under all operating conditions
- The ideal solution for architecture requiring a very high degree of availability
- The CBS synchronizes the outputs of two or more independent UPS modules by monitoring the bypass and system output of both UPS power sources, automatically activating a synchronization signal when required
- Synchronized outputs allow the critical load to be transferred to any UPS at any instant, maximizing the availability of all the UPS modules
- If the UPS modules are not synchronized, transferring the critical load between UPS units may be inhibited to protect the load from damage and interruption.

Communications options

- Dry contact relay card (six dry contacts)
- Web/network management card (SNMP)
- RS485/RS232 serial communications card
- MultiSlot communications card expander



MGE Galaxy PW options

Paralleling capabilities

- Parallel capacity systems are bussed together in a system bypass cabinet (a maintenance bypass that permits landing of up to four modules)
- Parallel modules are linked via a control cable
- System bypass is equipped with system-level power monitoring
- All paralleling intelligence is native to each module
- In the event of overload all module static bypasses close at the same time.

Options

- Parallel system bypass cabinets
- 65 kAIC rating solutions
- External maintenance bypass
- Critical bus synchronization module
- UPS output distribution cabinet
- Network management card/Web SNMP
- Advanced power management software

Simple and secure paralleling technology

- Up to three modules paralleled for capacity
- Up to four modules for redundancy
- Easy cable landing facilitated by a system level wraparound maintenance bypass
- System-level maintenance bypass provided
- Internal maintenance bypass on each UPS module

No additional paralleling gear required!



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. StruxureWare 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 PW. 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.

Advantage Plans

Flexible service packages offer hassle-free system maintenance to improve uptime at a predictable cost. These packages provide your system with the care it needs to operate most efficiently while minimizing downtime. 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 before they occur and keep your system running at maximum efficiency.

On-site Warranty Extension Service

In the event of a system issue, an FSE will arrive on site by the next business day to isolate, diagnose, and correct the problem in as little time as possible, minimizing downtime. Upgrades to even faster response times are available.



Technical specifications

Rated power (kVA/KW)	150/135	180/162	200/180	225/202.5
Normal AC supply input				
Input voltage (V)	208, 480, 600 V three-phase, 3W + G			
Frequency (Hz)	60 Hz +/-10%			
Input current at 208 V (A)	485	600	692	692
THDI	<7% at full load			
Input voltage tolerance utility operation	<7.5% at full load			
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)	208, 480, 600 V three-phase, 3W + G			
Efficiency at full load (AC-AC)	93.0%	93.0%	93.5%	93.5%
Efficiency at 50% load (AC-AC)	92.0%	92.5%	92.5%	93.0%
DC-AC nominal battery voltage	480 V	480 V	480 V	480 V
Load power factor	0.5 leading to 0.5 lagging			
Output frequency	Mains synchronized in normal operation 60Hz + 0.05% free-running			
Overload capacity utility operation	125% for 10 minutes, 150% for 60 seconds			
Overload battery utility operation	150% for 60 seconds			
V THD	<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	LCD display with mimic LED display			
Dimensions and weight (UPS only)				
Dimensions (HxWxD)	75 x 48 x 33 in.			
Weight (lbs.)	3,050 lb.			
Color	Metallic gray (RAL 9023)			
Protection				
Surge	IEC61000-4-5, EN50091-2 ANSI-IEE C62-41			
Thermal	Yes			
Short circuit	Yes			
Regulatory				
Safety	UL® 1778			
EMC/EMI/RFI	EN50091-2 IEC 62040-2 FCC15A			
Approvals	CE			
Environmental				
Storage temperature (with batteries)	-4°F to 113°F			
Operating temperature	UPS (32°F to 95°F)			
Relative humidity	0 to 95% non-condensing			
Operating elevation	< /= 3,281 ft.			
Storage elevation	< /= 32,808 ft.			
Max. audible noise at 3 ft. from unit	<68 dBA			
Protection class	IP51/NEMA 12			