

MGE Galaxy 3500

10/15/20/30/40 kVA

Performance power protection for critical applications



10/15/20/30/40 kVA compact, three-phase power protection with excellent efficiency and optimized footprint particularly adapted for demanding industrial environments

- Double conversion online topology
- Compact and robust design
- Best-in-class efficiency (96 percent)
- Parallel capability
- Network manageability
- IP51 for industrial environments
- Available in 3:3 and 3:1 versions

Features and benefits

Performance power protection with best-in-class efficiency for technical facilities and industrial applications

The MGE Galaxy™ from APC™ by Schneider Electric™ 3500 offers a new way for electrical contractors and facility managers to achieve reliable and cost-effective protection for mission-critical applications. A modular design with factory-installed, hot-swappable batteries and electronics reduces installation time – making the MGE Galaxy 3500 easy to deploy and maintain. The product features an excellent 96 percent (TUV certified) efficiency, resulting in reduced total cost of ownership and annual customer savings. The MGE Galaxy 3500 ships with dual mains input and a built-in maintenance bypass switch, increasing system availability. The Environmental Monitoring Card is supplied with the product, as well as a start-up service to ensure the right configuration from the start. And for demanding industrial environments, reliability features include IP51 protection, standard 2-millimeter-thick steel plate enclosure, and user-replaceable air filters.

MGE Galaxy 3500

Availability

- Dual mains input
- Automatic internal bypass
- Hot-swappable batteries
- Modular power module
- Generator compatible
- Parallel capability: up to four units for capacity and redundancy on the 3:3 version; up to two units for redundancy on the 3:1 version

Serviceability

- Manual maintenance bypass
- User-replaceable air filters
- Battery replacement without tools
- Front-access servicing

Economy

- Input power factor correction
- Temperature-compensated battery charging
- Efficiency: up to 96 percent

Simplified installation

- Wiring connections
- Busbar connections
- Wheels

Approvals

- Designed and built according to ANSI and IEEE® standards
- TUV approved

Manageability

- Built-in Web/SNMP management and environmental monitoring
- LCD display
- Audible alarms

Options

- High performance battery module – SYBTH4 (for use with the zero-minute UPS configuration)
- Up to four external runtime frames with batteries
- Parallel maintenance bypass panel – wall mount
- Single-unit maintenance bypass – wall mount
- Empty frame for third-party transformers
- Empty battery frame for batteries – floor mount
- Baying kits for wide and narrow form factors to XR frames

Typical applications

- Commercial buildings: shop floors, hotels, and convention centers
- Transportation and infrastructures
- Pharmaceutical and chemical plants
- Semiconductor plants
- Food and beverage plants
- Other industrial facilities and process plants

Support and service

- Start-up services included
- Worldwide support and after-sales services

Four units in parallel (3:3 version)



Features that make the difference

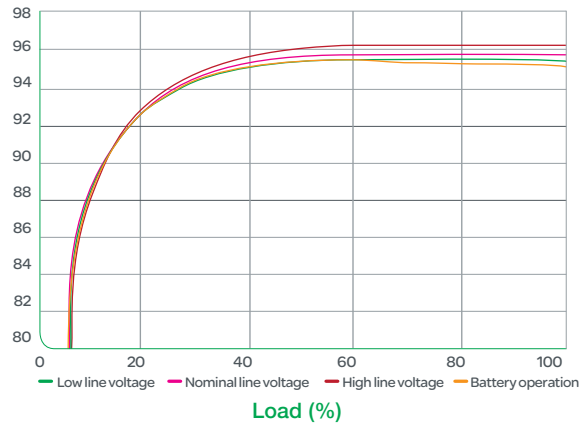
Reduced total cost of ownership

- **Up to 96 percent efficiency**
Minimizes energy loss and operating costs over time.
- **Optimized footprint**
Allows for a wide range of uses in electrical rooms and up to 60 percent space saving.
- **Reduced electrical infrastructure rating**
Reduces cost for wiring, transformers, and generators.
- **Input power factor correction**
Reduces installation costs.

Rugged industrial environments

- **Sturdy enclosure**
2 mm heavy-gate-steel front cover and frame design.
- **Easily replaceable air filters**
Prevent dust and debris from affecting UPS performance (arrestance value of 80 percent as per ASHRAE™ 52.1).
- **IP51**
Ruggedized enclosure with drip shield and dust protection that prevents liquids and dirt particles from entering the UPS.
- **Floor anchoring**
Prevents the UPS from tilting.
- **Wheels**
Allows the UPS to be easily rolled into place.

Galaxy 3500 30 kVA efficiency (%)



Optional auxillaries

- **External runtime frame with batteries**
Adds additional runtime configuration with or without breaker.
- **Single- or parallel-unit bypass panel, wall mounted**
Provides space savings and turnkey solution for parallel configurations.
- **Communication cards**
Network management card supplied with the product; optional cards available for additional features.

StruxureWare for Data Centers suite

In the data center environment, our Galaxy 3500 is fully managed through StruxureWare™ for Data Centers software, an integrated suite of data center infrastructure management (DCIM) applications. It enables businesses to prosper by managing their data centers across multiple domains, providing actionable intelligence for an ideal balance of high availability and peak efficiency throughout the entire data center life cycle. StruxureWare software applications and suites are a key element of Schneider Electric EcoStruxure™ integrated hardware and software system architecture – designed for intelligent energy management.



Comprehensive portfolio of services

Schneider Electric Critical Power & Cooling Services (CPCS) provides the expertise, services, and support you need for your building, industry, power, or data center infrastructure. Our world-class life cycle services offer a smart way to install and maintain your critical applications, ensuring your systems are always running at peak performance.



Technical specifications: 3:1 and 3:3

| Rated power (kVA/kW) | 10/8 (3:3 only) | 15/12 | 20/16 | 30/24 | 40/32 |
|--|--|-------|-------|---|-------|
| Normal AC supply input | | | | | |
| Input voltage (V) | 380/400/415 V (three-phase + neutral) | | | | |
| Frequency (Hz) | Synchronized to mains | | | | |
| Input power factor | >0.98 at load >50% | | | | |
| THDI | <5% at full load | | | | |
| Input voltage tolerance utility operation | 304 V to 477 V at full load, 200 V to 477 V at half load (for 400 V) | | | | |
| Dual mains input | Yes | | | | |
| Input voltage tolerance bypass | ±10% standard ±4, 6, 8, 10% (programmable) | | | | |
| Backfeed protection | Built-in backfeed contactor | | | | |
| Output | | | | | |
| Nominal output voltage (V) | 3:1 (220/230/240 V) | | | | |
| | 3:3 (380/400/415 V) three-phase + neutral | | | | |
| Efficiency at full load (AC-AC at nominal mains) | 94.5% | 95.8% | 95.5% | 95.8% | 96.0% |
| Efficiency at 50% load (AC-AC at nominal mains) | 94.7% | 95.3% | 95.7% | 95.5% | 95.5% |
| DC-AC nominal battery voltage | 94.1% | 95.1% | 94.9% | 95.2% | 95.0% |
| Load power factor | 0.5 leading to 0.5 lagging | | | | |
| Output frequency | Mains synchronized in normal operation 50 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 | | | | |
| V THD | <2% from 0 to 100% linear load, <3.5% full non-linear load | | | | |
| Output voltage tolerance | +/-1% static, +/-5% at 100% load step | | | | |
| Communication and management | | | | | |
| Communication interface | Network management card with environmental monitor | | | | |
| Control panel | Power view multifunction LCD, status, and control console | | | | |
| Emergency power off (EPO) | Yes | | | | |
| Dimensions and weights | | | | | |
| Dimensions (H x W x D) narrow tower | 1,490 x 352 x 838 mm | | | N/A | |
| Dimensions (H x W x D) wide tower | 1,490 x 523 x 838 mm | | | | |
| Weight (kg) – narrow tower | 214 (3:3 only) | 402 | | N/A | |
| Weight (kg) – wide tower | 443 (3:3 only) | 472 | | 656 | 662 |
| Protection | | | | | |
| Surge | IEC61000-4-5 | | | | |
| Thermal, short circuit | Yes | | | | |
| Regulatory | | | | | |
| Safety | IEC/ EN62040 1-1 | | | | |
| EMC/EMI/RFI | EN50091-2, IEC 62040-2 | | | | |
| Approvals | ANSI, IEEE | | | | |
| Environmental | | | | | |
| Operating temperature | 0 to 40 °C | | | | |
| Storage temperature | -15 to 45 °C | | | | |
| Relative humidity | 0 to 95% non-condensing | | | | |
| Operating elevation | 0 to 1,000 m | | | | |
| Storage elevation | 0 to 15,000 m | | | | |
| Maximum audible noise at 1 m from unit | <43.3 dBA at <70% load, <51.3dBA at 100% load | | | <46.2 dBA at <70% load, < 55.0dBA at 100% load | |
| Protection class | IP51 | | | | |