

MGE Galaxy 300

“Simple and reliable power protection for mission-critical applications”

10/15/20/30/40 kVA - Three Phase in, Three Phase out
10/15/20/30 kVA - Three Phase in, Single Phase out



Wide Enclosure
(30/40 kVA 3:3)
(20/30 kVA 3:1)



Narrow Enclosure
(10/15/20 kVA 3:3)
(10/15 kVA 3:1)

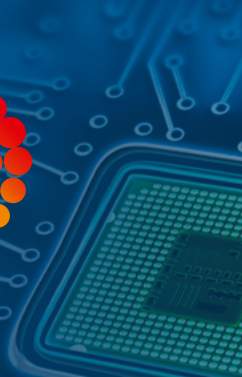
Effective three phase power protection against downtime and data loss for mission critical applications

- Double Conversion On-Line Topology
- Compact design
- Parallel Capability for Redundancy
- High serviceability
- Dual feed input
- Strong Charger option for extended runtimes
- Multi Language Display
- Communication card and start-up service supplied with the product



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MGE Galaxy 300

Features & Benefits

Economy

> Optimized features

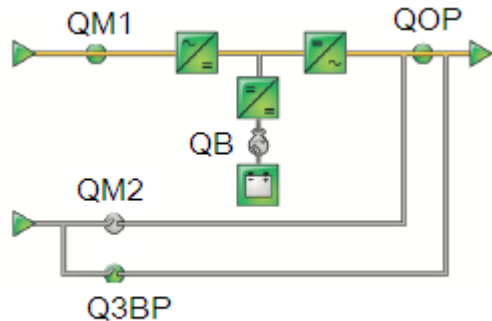
Galaxy 300 is designed to provide an optimal set of performances. The most demanded features have been carefully selected to propose the right solution for a predictable and reliable power protection, offering the benefits of a true double-conversion online architecture

> Reduced footprint

Narrow and wide tower optimizes the system footprint based on kVA power requirements

> Simplified maintenance

A full maintenance bypass with front-access permits to completely isolate each part of the system and facilitate maintenance operations without power interruption



Availability

> Wide input voltage range

For harsh electrical environments

> Double Conversion on line topology

Guarantees a consistently high level of power quality

> Parallel Capability

Power the connected equipment with two UPS's in parallel to increase system redundancy

> Dual feed input

Allows standard installation of one or two independent power sources

Options

> External Battery Cabinet

For additional runtime. Supplied with breakers and temperature sensors.

> Parallel Kit

For 1+1 parallel redundancy (G3HTPARKITS)

> Empty Cabinet for Third-party batteries or Transformers

Line up and match cabinet for third party batteries and transformers

> Communication cards

- Network Management card supplied with the product (AP9630) for Web SNMP functions
- Optional card (AP9635) for additional features such as Modbus/Jbus over RS485, Teleservice, and environmental sensors: Temperature (AP9335T), Temp and Humidity (AP9335TH), Dry contact I/O (AP9810)



MGE Galaxy 300

Features & Benefits

Effective and reliable power protection for mission critical applications.

MGE Galaxy 300 provides an effective and reliable solution for protecting small server rooms, commercial buildings and technical facilities. The on-line double conversion topology supplies true isolation between input and output with a zero transfer time. Up to 30 minutes of integrated battery back up, internal mechanical bypass and parallel capability allows for higher levels of availability. Remote and local monitoring/management capability is achieved through a built in communication card with a simple Web/SNMP interface and a user friendly display available in 18 languages. Both three to three and three to single phase configurations are available for convenient power distribution. Serviceability is greatly enhanced by front access for ease of maintenance in confined spaces. All of these features along with the included Start-up and on site warranty make the MGE Galaxy 300 the easiest UPS in its class to install, manage and maintain.

Availability

- > Dual mains input
- > Automatic internal bypass
- > Parallel up to 2 units for redundancy
- > Up to 30min runtime with integrated battery
- > Fast battery charging capability (charger option) for 4H+ runtimes

Serviceability

- > Manual maintenance bypass
- > Front-access servicing
- > World Class Service organization

Economy

- > Input power factor correction
- > Temperature compensated Battery charging to extend Battery lifetime

Simplified Installation

- > Push to open – push to close door
- > Wheels to roll the unit into place
- > Start-up wizard with step-by-step guidance

Approvals

- > Designed and built according to CE
- > TUV reports available
- > RoHS compliant

Manageability

- > Built in management card for SNMP
- > LCD display in 18 languages
- > Audible alarms
- > Mimic diagram

Options

- > Parallel Configuration Kit for 2 UPS's
- > Empty Battery Cabinet for third party Batteries
- > External Battery cabinets for extended runtimes up to 4 hours

Typical Applications

- > Small and Medium Businesses
- > Commercial Buildings: Shop floors, Hotels, Convention Centers
- > Transportation and Infrastructures
- > Telecommunication
- > Technical facilities

Support & Service

- > 5x8 Start-Up included, 7x24 upgrade available
- > Multiple on site service offerings
- > Worldwide support and after-sales services



MGE Galaxy 300

Reducing environmental impact for sustainable development

Beyond international environmental regulations

The critical power industry commits to environmental issues. Schneider Electric systematically attempts to exceed current and future requirements imposed by standards that include:

- ISO 14001 certification of sites and R&D,
- Eco-design standards & eco-production, a true commitment to sustainable development.

• RoHS compliance

MGE Galaxy 300 takes the environmental issue into account at each stage of the product's life.

Design

Reducing the number of parts improves reliability and reduces impact on the environment.

The MGE Galaxy 300 design team used advanced digital electronics to achieve savings:

- Fewer electronic boards,
- Software updates via downloading instead of changing boards.

End of Life recycling

End of product life:

- Safety instructions,
- List of parts containing regulated substances and their position in the UPS.

Raw materials

Thanks to its compact size and low weight, the MGE Galaxy 300 requires fewer raw materials and the types used are more environmentally friendly.

- New design for a transformerless UPS:
- More silicon, less copper,
- More powerful IGBTs.

Manufacturing according to environmental standards

MGE Galaxy 300 is produced in factories that comply with the ISO 14001 standard to reduce:

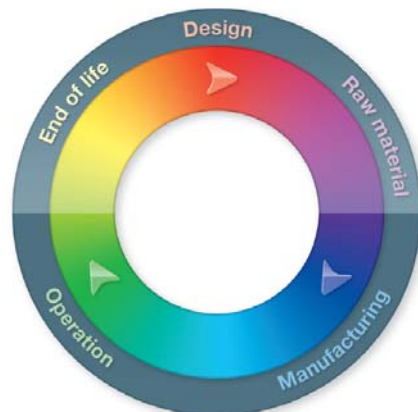
- energy consumption,
- packaging waste for supplier parts,
- amounts of materials used in the process.

Energy efficiency thanks to quality power solutions

- Reduced consumption thanks to the IGBT rectifier (low harmonics), which in turn reduces sizing of the electrical distribution system (breakers, cables, generator).
- High efficiency UPS solutions to reduce heat losses:
- up to 93% efficiency in on-line mode



The Restriction on Hazardous Substances Directive (RoHS) restricts the use of six hazardous materials in the manufacture of various types of electronics including lead, mercury, cadmium, hexavalent chromium, PBB and PBDE.



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Battery Options

MGE Galaxy 300 provides integrated batteries for runtimes up to 30 minutes. For extended runtime needs, 3 external battery cabinets can be used with a stronger charger option to increase runtime up to 4 hours. Temperature sensors come standard to monitor the battery ambient temperature and adjust the charger voltage to protect the batteries and delay premature aging. External battery function is also protected by a circuit breaker equipped in the external battery cabinet. The battery circuit breaker is equipped with an under voltage coil to avoid untimely closing and to open the circuit breaker when necessary.

UPS with integrated batteries

| kVA | 3:1 Model Number | 3:3 Model Number | Typical runtime (*) |
|-----|---------------------|---------------------|---------------------|
| 10 | G3HT10K3IB1S | G3HT10KHB1S | 13 min |
| | G3HT10K3IB2S | G3HT10KHB2S | 35 min |
| 15 | G3HT15K3IB1S | G3HT15KHB1S | 9 min |
| | G3HT15K3IB2S | G3HT15KHB2S | 33 min |
| 20 | G3HT20K3IB1S | G3HT20KHB1S | 12 min |
| | G3HT20K3IB2S | G3HT20KHB2S | 25 min |
| 30 | G3HT30K3IB1S | G3HT30KHB1S | 13 min |
| | G3HT30K3IB2S | G3HT30KHB2S | 29 min |
| 40 | N/A | G3HT40KHB1S | 10 min |
| | | G3HT40KHB2S | 20 min |

UPS with long backup charger and external battery cabinet options

| kVA | UPS (3:1) Model Number | UPS (3:3) Model Number | Battery Cabinet Model Number | Typical runtime (*) |
|--|---------------------------|---------------------------|---------------------------------|---------------------|
| 10 | G3HT10K3ILS | G3HT10KHLS | G3HTBAT1 | 113 min |
| | | | G3HTBAT2 | 203 min |
| | | | G3HTBAT3 | 267 min |
| 15 | G3HT15K3ILS | G3HT15KHLS | G3HTBAT1 | 65 min |
| | | | G3HTBAT2 | 121 min |
| | | | G3HTBAT3 | 173 min |
| 20 | G3HT20K3ILS | G3HT20KHLS | G3HTBAT2 | 86 min |
| | | | G3HTBAT3 | 120 min |
| 30 | G3HT30K3ILS | G3HT30KHLS | G3HTBAT2 | 55 min |
| | | | G3HTBAT3 | 71 min |
| 40 | N/A | G3HT40KHLS | G3HTBAT3 | 53 min |
| Battery Cabinet Dimension (HxWxD): 1300x500x850mm | | | | |
| G3HTBAT1 is composed of 1 cabinet ; G3HTBAT2 and G3HTBAT3 are composed of 2 cabinets | | | | |
| (*) Typical runtime at 70%load | | | | |

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Technical Specifications

| Rated Power (kVA/kW) | 10/8 | 15/12 | 20/16 | 30/24 | 40/32 |
|---|---|-----------------|-----------------|---------------------|-------|
| Normal AC supply input | | | | | |
| Input voltage (V) | 380/400/415 V (Three phase + Neutral) | | | | |
| Frequency (Hz) | 45 – 65 Hz | | | | |
| Input Power Factor | Up to 0.99 at >50% load | | | | |
| THDI | <7% at full load | | | | |
| Input Voltage Tolerance Utility Operation | 304V to 477V at full load (-15% to +20% at 400V) | | | | |
| Dual Mains Input | Yes | | | | |
| Output | | | | | |
| Nominal Output Voltage (V) | 3:1 - 220/230/240 V | | | | N/A |
| | 3:3 - 380/400/415 V (Three phase + Neutral) | | | | |
| Efficiency at Full Load (on-line) | Up to 93% | | | | |
| Output Frequency | Mains synchronized in normal operation 50Hz or 60Hz ± 0.1% free-running | | | | |
| Overload Capacity Utility Operation | 125% for 2 minutes, 150% for 10 seconds | | | | |
| Output Voltage Tolerance | ±2% static, ±5% at 100% load step | | | | |
| Communication and Management | | | | | |
| Communication Interface | Network Management Card (AP9630) | | | | |
| Control Panel | multi-function LCD, status and display console | | | | |
| Dimensions and Weight | | | | | |
| UPS Dimensions (HxWxD) – 3:1 | 1300x400x860 mm | 1300x500x860 mm | | | N/A |
| UPS Dimensions (HxWxD) – 3:3 | 1300x400x860 mm | | 1300x500x860 mm | | |
| UPS Weight (kg) without Batteries (3:1 / 3:3) | 145 / 130 kg | 185 / 130 kg | | 198 kg | |
| UPS Maximum Weight (kg) with integrated Batteries | 615 kg | | | | |
| Battery Cabinet Dimensions (HxWxD) | 1300x660x850 mm | | | | |
| Battery Cabinet - Minimum weight | 105 kg | | | | |
| Battery Cabinet - Maximum weight | 610 kg | | | | |
| Regulatory | | | | | |
| Safety | IEC/EN62040-1-1 | | | | |
| EMC/EMI/RFI | IEC 62040-2 | | | | |
| Approvals | CE, TUV | | | | |
| Environmental | | | | | |
| Operating Temperature | 0°C to 35°C | | | | |
| Relative Humidity | 0 to 90% non-condensing | | | | |
| Operating Elevation | 0 to 1,000m at 100% load | | | | |
| Max. Audible Noise at 1m from unit | 54 dBA at 100% load | | | 53 dBA at 100% load | |
| Protection Class | IP20 | | | | |



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