

# MGE Galaxy 300i

3:3-phase: 10/15/20/30/40 kVA, 3:1-phase 10/15/20/30 kVA

Ruggedized and reliable three-phase power protection designed to prevent downtime and data loss for applications in industry and infrastructure



## MGE Galaxy 300i – reliability you can trust.

The MGE Galaxy™ 300i unit is a reliable solution aimed at protecting a wide variety of industry and infrastructure applications. Its online double-conversion topology supplies isolation between input and output with zero transfer time. The built-in transformer provides true galvanic isolation and can be configured either in bypass or output position. This UPS is suitable for use with external batteries and includes a powerful charger, internal mechanical bypass, and simplified parallel capability for higher levels of availability. Achieve remote and local monitoring/management capability through a built-in communication card with a simple Web/SNMP or Modbus interface and a user-friendly display, which is available in 18 languages. Both 3:3- and 3:1-phase configurations are available for convenient power distribution. Front access greatly enhances serviceability for ease-of-maintenance in confined spaces. The Galaxy 300i unit is ruggedized with conformance-coated boards, an IP21 kit, and a dust filter to withstand harsh environments. All of these features, along with the included start-up and on-site warranty, allow for easy installation, management and maintenance, making the MGE Galaxy 300i unit the easiest UPS in its class.

# Features and Benefits

## MGE Galaxy 300i

### Availability

**Dual main inputs** Allow standard installation of one or two independent power sources

**Automatic internal bypass** Built-in 100% rated bypass static switch prevents interruption by allowing load transfer to utility power during heavy overloads

**Parallel 1+1 for redundancy** Connected equipment can be powered with two UPS units in parallel to increase system redundancy

**Ruggedized design** With conformance-coated boards and IP21 Kit with included dust filter to better withstand harsh environments

**Integrated transformer** Can be configured onsite as either bypass or output transformer for full galvanic isolation and increased load protection

**A powerful charger** Provides all-in-one solution for the most common runtime requirements

**Designed for industry** Provides 100% non-linear/unbalanced loads and genset compatibility

### Serviceability

**Manual maintenance bypass** Easily accessible maintenance bypass allows complete isolation of each part of the system, facilitating maintenance operations without power interruption

**Front-access servicing** Push-open door and slide-out boards simplify installation and maintenance while minimizing space requirements

**World-class service organization** With worldwide support and multiple levels of after-sales services, our package or individual on-site service options are structured for you to choose what APC™ by Schneider Electric™ can do for you

### Economy

**Power factor corrected input** Prevents the need for oversizing cables, circuit breakers, and generator

**Temperature-compensated battery charging** Sensors monitor battery temperature and adjust charger voltage to prevent premature aging and extend battery lifetime

**Reduced footprint** Compact wide or narrow tower makes best use of available space

### Simplified Installation

**Easy to install** Wheeled unit rolls into place, and all wiring connections are easily identifiable for time-saving installation

**Start-up wizard** Step-by-step guidance and intuitive menu screens for easy set-up and system navigation

### Manageability

**Flexible communication options** Remote and local monitoring and management capabilities with dry contact, modbus, and SNMP interface

**User-friendly graphical interface** Easy-to-read LCD provides mimic diagrams, audible alarms, and multi-language display, simplifying operation

## Typical Applications

- Industry processes (semi conductor, automotive, etc.)
- Transportation (metro, railways, etc.)
- Infrastructure
- Healthcare/Hospital
- Water facilities
- Mining facilities



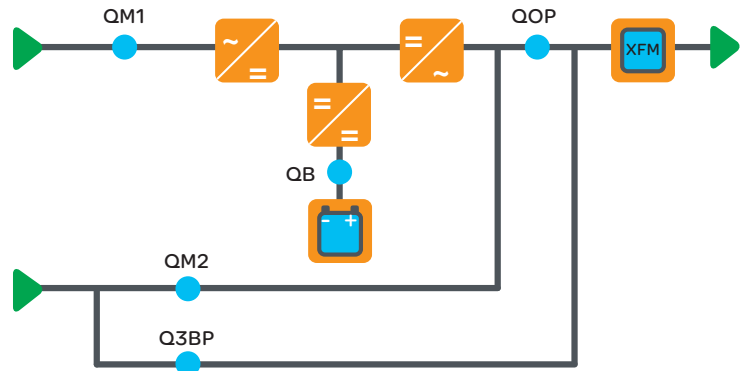
# MGE Galaxy 300i

## Economy

**Optimized features** The MGE Galaxy 300i unit is designed to provide optimal performance. The most in-demand features have been carefully selected to propose the right solution for predictable and reliable power protection, offering the benefits of a built-in transformer in a compact enclosure.

**Reduced footprint** Narrow and wide tower options optimize the system footprint based on kVA power requirements.

**Simplified maintenance** A full maintenance bypass with front access permits complete isolation of each part of the system and facilitates maintenance operations without power interruption.



In the data center environment, our Galaxy 300i 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 — a system designed for intelligent energy management.



## 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 for Web/SNMP or modbus functions
- Optional card (AP9635CH) for additional features such as Modbus/Jbus over RS485, Teleservice, and environmental sensors: Temperature (AP9335T), Temperature and Humidity (AP9335TH), Dry contact I/O (AP9810)

## 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

| Rated Power (kVA/kW)                                | 10/8  | 15/12 | 20/16               | 30/24 | 40/32  |
|---|---|-------|---------------------|-------|--------|
| <b>Normal AC supply input</b>                       |   |       |                     |       |        |
| 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           | 340 V to 477 V at full load ( -15% to +20% at 400 V)                      |       |                     |       |        |
| Dual Mains Input                                    | Yes   |       |                     |       |        |
| <b>Output</b>                                       |   |       |                     |       |        |
| 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 90.5%   |       |                     |       |        |
| Output Frequency                                    | Mains synchronized in normal operation 50 Hz or 60 Hz + 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   |       |                     |       |        |
| <b>Communication and Management</b>                 |   |       |                     |       |        |
| Communication Interface                             | Network Management Card (AP9630/AP9635)                                   |       |                     |       |        |
| Control Panel                                       | multi-function LCD, status and display console                            |       |                     |       |        |
| <b>Dimensions and Weight</b>                        |   |       |                     |       |        |
| UPS Dimensions (HxWxD) - 3:1                        | 1,300x400x950 mm  |       | 1,300x500x950 mm    |       | N/A    |
| UPS Dimensions (HxWxD) - 3:3                        | 1,300x400x950 mm  |       | 1,300x500x950 mm    |       |        |
| UPS Weight (kg) without Transformer (3:1 / 3:3)     | 150/135 kg  |       | 190/135 kg          |       | 203 kg |
| UPS Maximum Weight (kg) with integrated Transformer | 445 kg  |       |                     |       |        |
| Battery Cabinet Dimensions (HxWxD)                  | 1,300x660x850 mm  |       |                     |       |        |
| Battery Cabinet - Minimum weight                    | 105 kg  |       |                     |       |        |
| Battery Cabinet - Maximum weight                    | 610 kg  |       |                     |       |        |
| <b>Regulatory</b>                                   |   |       |                     |       |        |
| Safety  | IEC/EN62040-1-1   |       |                     |       |        |
| EMC/EMI/RFI   | IEC 62040-2   |       |                     |       |        |
| Approvals   | CE, TUV   |       |                     |       |        |
| <b>Environmental</b>                                |   |       |                     |       |        |
| Operating Temperature                               | 0°C to 40°C (load conditions apply)                                       |       |                     |       |        |
| Relative Humidity                                   | 0 to 90% non-condensing   |       |                     |       |        |
| Operating Elevation                                 | 0 to 1,000 m at 100% load   |       |                     |       |        |
| Max. Audible Noise at 1m from unit                  | 54 dBA at 100% load   |       | 53 dBA at 100% load |       |        |
| Protection Class                                    | IP21  |       |                     |       |        |