

# MGE Galaxy 3500

“Performance power protection for critical applications.”

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



**A performance UPS with excellent efficiency and optimized footprint - for commercial and technical facilities up to industrial environments**

- Double Conversion On-Line Topology
- Compact and robust design
- Best-in-class efficiency (96%)
- Network manageability
- IP51 for Industrial environments

# MGE Galaxy 3500 - Features & Benefits

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

The MGE Galaxy 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 reduce installation time and make the MGE Galaxy 3500 easy to deploy and maintain. The product features an excellent 96% efficiency (TUV certified) which means reduced Total Cost of Ownership and customer savings every year. MGE Galaxy 3500 ships with dual mains input and a built-in maintenance bypass switch increasing the system availability. The environment monitoring card is supplied with the product, as well as a start-up service to ensure the right configuration from start. And for demanding industrial environments, reliability features include IP 51 protection, standard 2 millimeter thick steel plate enclosure, and user-replaceable air filters.

### Availability

- > Dual mains input
- > Automatic internal bypass
- > Hot-swappable batteries
- > Modular Power Module
- > Generator compatible

### 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%

### Simplified Installation

- > Wiring connections
- > Busbar Connections
- > Wheels

### Approvals

- > Designed and built according to UL, IP, ANSI, IEEE

### Manageability

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

### Options

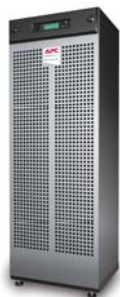
- > External Runtime Frame with Batteries
- > Empty Battery Frame for third party batteries
- > Empty Frame for third party Transformers

### Typical Applications

- > Transportation
- > Pharmaceutical plants
- > Chemical plants
- > Semiconductor plants
- > Food & beverage plants
- > Other industrial facilities and process plants

### Support & Service

- > Start-Up Included
- > Worldwide support and after-sales services



Wide Enclosure  
(15/20/30/40 kVA)



Narrow Enclosure  
(15/20 kVA)

# MGE Galaxy 3500 - Features & Benefits

## Reduced Total Cost of Ownership

### > Up to 96% Efficiency

Minimizes energy loss and operating costs over time

### > Optimized footprint

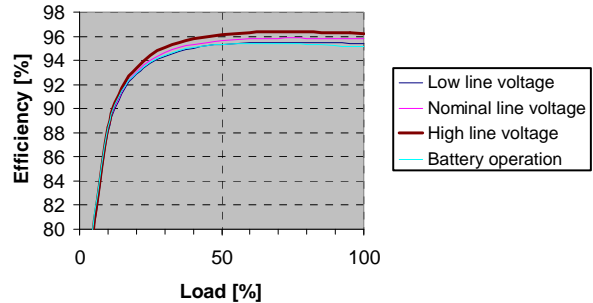
Allows for a wide range of uses in Electrical rooms and up to 60% space saving

### > Reduced Electrical infrastructure rating requirements

Reduced cost for wiring, transformers, generators

### > Input power factor correction

Reduces installation costs



## Rugged Industrial Environments

### > Sturdy Enclosure

2mm heavy gate Steel front cover and frame design.

### > Easy replaceable air filters

Prevent dust and debris from affecting UPS performance (arrestance value of 80% as per Ashrae 52.1)

### > IP 51

Drip shield that prevents falling dirt and dripping liquids from entering the UPS

### > Floor anchoring

Prevent the UPS from tilting

### > Wheels

Allow the UPS easily to be rolled into place



User-replaceable air filters

IP51 enclosure

## Options

### > External Runtime Frame with Batteries

Adds additional runtime configuration with or without Breaker

### > Single Bypass Panel - wall-mounted

### > Empty Frame for Third-party Batteries or Transformers

Line up and match cabinets for third party batteries and transformers

### > Communication cards

Web/SNMP card supplied with the product, Optional cards available for additional features



Maintenance Bypass



Communication Cards

# Technical Specifications

Rated power (kVA/kW)	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)	40 – 70 Hz			
Input Power Factor	>0.99 at load>50%			
THDI	<5% at full load			
Input Voltage Tolerance Utility Operation	304V to 477V at full load, 200V to 477V 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			
<b>Output</b>				
Nominal Output Voltage (V)	220/230/240 V			
Efficiency at Full Load (AC-AC)	95.7%	95.3%	96.4%	96.0%
Efficiency at 50% Load (AC-AC)	95.7%	95.7%	96.4%	96.5%
DC-AC at nominal battery voltage	95.1%	94.8%	94.8%	94.8%
Load Power Factor	0.5 leading to 0.5 lagging			
Output Frequency	Mains synchronized in normal operation 50Hz ± 0.05% free-running			
Overload Capacity Utility Operation	125% for 10 minutes, 150% for 1 minute			
Overload Capacity Battery Operation	150% for 1 minute			
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			
<b>Communication and Management</b>				
Communication Interface	Network Management Card with Environmental Monitor			
Control Panel	Power View multi-function LCD, status and control console			
Emergency Power Off (EPO)	Yes			
<b>Dimensions and Weight</b>				
Dimensions (HxWxD) Narrow Tower	1490x352x838 mm ( Narrow Tower)			
Dimensions (HxWxD) Wide Tower	1490x523x838 mm ( Wide Tower)			
Weight (kg) - Narrow Tower	402 kg			
Weight (kg) - Wide Tower	472 kg		656 kg	
Color	Metallic Gray (RAL 9023)			
<b>Protection</b>				
Surge	IEC61000-4-5, EN50091-2			
Thermal	Yes			
Short Circuit	Yes			
<b>Regulatory</b>				
Safety	IEC/EN62040-1-1 and EN60950			
EMC/EMI/RFI	EN50091-2, IEC 62040-2			
Approvals	CE			
<b>Environmental</b>				
Operating Temperature	0°C to 40°C			
Storage Temperature	-15°C to 45°C			
Relative Humidity	0 to 95% non-condensing			
Operating Elevation	0 to 1,000m			
Storage Elevation	0 to 15,000m			
Max. Audible Noise at 1m from unit	<43.3 dBA at <70% load		<46.2 dBA at <70% load	
Protection Class	IP51			