

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

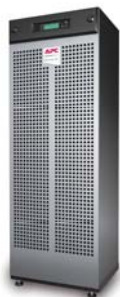
- > External Runtime Frame with Batteries
- > Empty Battery Frame for third party batteries
- > Empty Frame for third party Transformers

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

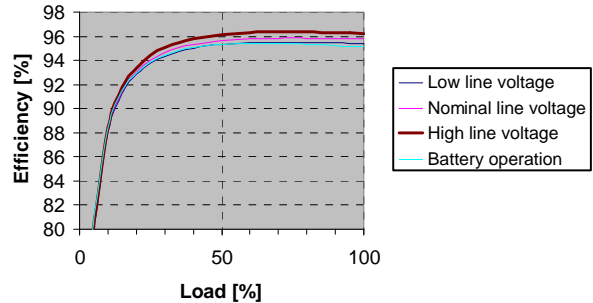
Allows for a wide range of uses in Electrical rooms and up to 60% space saving

> 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
Normal AC supply input				
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			
Output				
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			
Communication and Management				
Communication Interface	Network Management Card with Environmental Monitor			
Control Panel	Power View multi-function LCD, status and control console			
Emergency Power Off (EPO)	Yes			
Dimensions and Weight				
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)			
Protection				
Surge	IEC61000-4-5, EN50091-2			
Thermal	Yes			
Short Circuit	Yes			
Regulatory				
Safety	IEC/EN62040-1-1 and EN60950			
EMC/EMI/RFI	EN50091-2, IEC 62040-2			
Approvals	CE			
Environmental				
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			