MGE Galaxy 3500

“Performance power protection for critical applications.”

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

Wide Enclosure
(10/15/20/30/40 kVA)

Narrow Enclosure
(10/15/20 kVA)

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%)
- Parallel Capability
- Network manageability
- IP51 for Industrial environments

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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
> Parallel up to 4 units for capacity and redundancy

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

> Up to 4 External Runtime Frame with Batteries
> Parallel Maintenance Bypass Panel- Wall mount
> Single-Unit Maintenance bypass-Wall Mount
> Empty Battery Frame for third party Batteries
> Empty Frame for third party Transformers

Typical Applications

> Commercial Buildings: Shop floors, Hotels, Convention Centers
> Transportation and Infrastructures
> Pharmaceutical and Chemical plants
> Semiconductor plants
> Food & beverage plants
> Other industrial facilities and process plants

Support & Service

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

4 units in parallel

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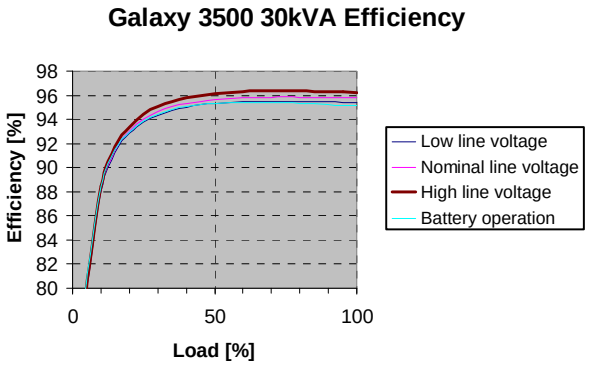
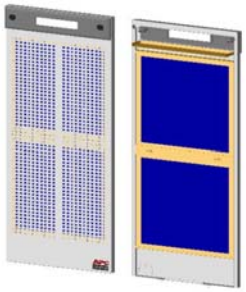
MGE Galaxy 3500 - Features & Benefits

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





User-replaceable air filters

IP51 enclosure

Rugged Industrial Environments

> Sturdy Enclosure
2mm heavy gate Steel front cover and frame design.
> Easy replacable 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

Options

> 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
> Empty Battery Frame for Third-party Batteries or Transformers
Line up and match cabinet for third party batteries and transformers
> Communication cards
SNMP card supplied with the product,
Optional cards available for additional features

Empty Battery Frame

Communication Cards

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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)	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)	380/400/415 V (Three phase + Neutral)				
Efficiency at Full Load (AC-AC)	95.7%	95.7%	95.3%	96.4%	96.0%
Efficiency at 50% Load (AC-AC)	95.2%	95.7%	95.7%	96.4%	96.5%
Efficiency DC-AC nominal Battery voltage	94.7%	94.7%	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 60 seconds				
Overload Capacity Battery 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 multi-function LCD, status and control console				
Emergency Power Off (EPO)	Yes				
Dimensions and Weight					
Dimensions (HxWxD) Narrow Tower	1490x352x838 mm				
Dimensions (HxWxD) Wide Tower	1490x523x838 mm				
Maximum Weight (kg) - Narrow Tower	214 kg	402 kg			
Maximum Weight (kg) - Wide Tower	443 kg	472 kg		656 kg	662kg
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				

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