

Life Is On

Schneider
Electric

MGE Galaxy 3500

10/15/20/30 kVA

Performance power protection for
critical applications



Features and benefits

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

The MGE Galaxy™ 3500 further enhances the performance and reliability by introducing UL 924 listed battery systems for every lighting application. All systems were UL witness tested for compliance with UL 924 criteria for a minimum of 90 minutes and CSA 22.2 criteria for a minimum of 120 minutes of battery operation with full load on the UPS. Recharge criteria was met with both normal and reduced input voltage conditions.

10 – 30 kVA compact three-phase power protection with excellent efficiency and optimized footprint, particularly adapted for demanding industrial environments:

- Double conversion online topology
- Compact and robust design
- Best-in-class efficiency (94 percent)
- Parallel capability
- Network manageability
- IP51/NEMA 12 for industrial environments
- UL 924 and CSA 22.2 approved for emergency lighting applications

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Availability

- Dual mains input
- Automatic internal bypass
- Batteries
- Modular power module
- Generator compatible
- Parallel up to four 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 94 percent

Simplified installation

- Wiring connections
- Busbar connections
- Wheels

Approvals

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

Manageability

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

Options

- High-performance battery module – SYBTH4
- Up to four external runtime frames with batteries
- Parallel maintenance bypass panel – floor mount
- Wall mount and floor mount to single-unit maintenance bypass
- Transformer cabinets

Typical applications

- Emergency lighting applications
- Commercial buildings: shop floors, hotels, and convention centers
- Transportation and infrastructures
- Pharmaceutical and chemical plants
- Semiconductor plants
- Food and beverage plants
- Other industrial facilities and process plants

Support and service

- Start-up service included
- Worldwide support and after-sales services

Four units in parallel



Features that make the difference

Reduced total cost of ownership

- **Up to 94 percent 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 percent space saving
- **Reduced electrical infrastructure rating**
Reduces cost for wiring, transformers, and generators
- **Input power factor correction**
Reduces installation costs

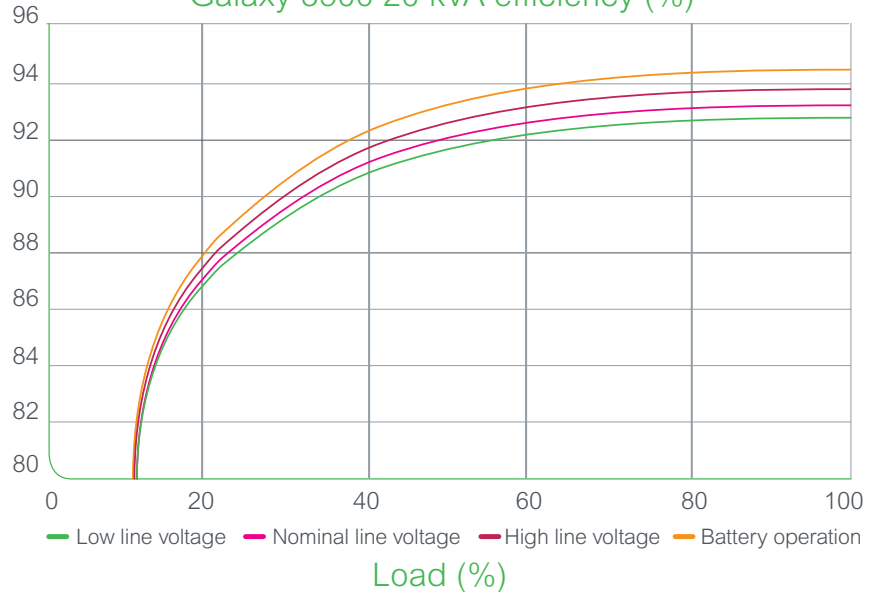
Rugged industrial environments

- **Sturdy enclosure**
2 mm heavy-gate-steel front cover and frame design
- **Easily replaceable air filters**
Prevent dust and debris from affecting UPS performance (arrestance value of 80 percent as per ASHRAE 52.1)
- **IP51**
Ruggedized enclosure with drip shield and dust protection that prevents liquids and dirt particles from entering the UPS
- **Floor anchoring**
Prevents the UPS from tilting
- **Wheels**
Allows the UPS to be easily rolled into place
- **Flame-retardant batteries**
Come standard
- **Fast runtimes**
Meet or exceed 90 minutes to 1.75 VPC per UL 924 requirements.

Optional auxiliaries

- **External runtime frame with batteries**
Adds additional runtime configuration with or without breaker
- **Single- or parallel-unit bypass panel, wall mounted and floor mounted**
Provides space savings and turnkey solution for parallel configurations
- **Communication cards**
Network management card supplied with the product; optional cards available for additional features
- **Cabinets**
480 V, 600 V transformer cabinets and bypass cabinets available

Galaxy 3500 20 kVA efficiency (%)



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StruxureWare for Data Centers software suite

In the data center environment, our Galaxy 3500 UPS is fully managed through StruxureWare™ for Data Centers software, an integrated suite of data center infrastructure management 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.

A comprehensive portfolio of services

Schneider Electric Critical Power & Cooling Services 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
Normal AC supply input				
Input voltage (V)	208 V (three-phase + neutral)			
Frequency (Hz)	40 – 70 Hz			
Input power factor	> 0.98 at load > 50%			
THDI	< 5% at full load			
Input voltage tolerance utility operation	166 V to 240 V (at full load 100 V to 240 V at half load) 208 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)	208 V three-phase			
Efficiency at full load (AC-AC)	93.5%	93.0%	94.1%	93.3%
Efficiency at 50% load (AC-AC)	92.5%	93.5%	93.8%	94.3%
DC-AC nominal battery voltage	93.8%	93.8%	93.8%	93.8%
Load power factor	0.5 leading to 0.5 lagging			
Output frequency	Mains synchronized in normal operation 60 Hz + 0.05% free-running			
Overload capacity utility operation	125% for 10 minutes, 150% for 60 seconds			
Overload battery utility operation	150% for 60 seconds			
V THD	< 2% from 0 to 100% linear load, < 5% full nonlinear 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			
Dimensions and weights				
Dimensions (H x W x D) narrow tower	58.7 x 14 x 33 in.			
Dimensions (H x W x D) wide tower			58.7 x 20.6 x 33 in.	
UL 924 battery cabinet dimensions (H x W x D)	58.66 x 21.56 x 33.58	58.66 x 45.06 x 33.58	58.66 x 45.06 x 33.58	58.66 x 90.12 x 33.58
Weight (lb.) — narrow tower (with one battery module)	671	873		
Weight (lb.) — wide tower (with two battery modules)	913	913	979	1,181
Weight (lb.)	1801	2450	3090	4900
Control	Metallic Gray (RAL 9023)			
Protection				
Surge	IEC61000-4-5, EN50091-2 ANSI-IEE C62-41			
Thermal	Yes			
Short circuit	Yes			
Regulatory				
Safety	UL 1778			
EMC/EMI/RFI	EN50091-2 IEC 62040-2 FCC15A			
Approvals	CE UL 924, CSA 22.2			
Environmental				
Operation temperature	32 – 104 °F			
Storage temperature	5 – 113 °F			
Relative humidity	0 to 95% noncondensing			
Operating elevation	0 – 3,333 ft.			
Storage elevation	0 – 50,000 ft.			
Maximum audible noise at 1 m from unit	< 43.3 dBA at < 70% load		< 46.2 dBA at < 70% load	
Protection class	IP51/NEMA 12			