

# MGE™ Galaxy™ 5000

*Flexible Three Phase Power Protection*



**Performance Three Phase  
Power Protection with  
Adaptability to Meet the  
Unique requirements of  
Small to Medium  
Datacenters, Buildings and  
Facilities**

- > Upgradeable power ranges
- > Internal maintenance bypass
- > Intuitive monitoring
- > Parallel Capable
- > Front access servicing

# 40 kVA to 130 kVA

## High Power Availability

The MGE Galaxy 5000 has been designed for continuous operation

- > Fault tolerance with built-in 100% rated bypass static switch
- > Redundant components for greater reliability
- > High overload capacity to improve downstream discrimination
- > Extended Battery backup times available



## Flexible and Upgradeable

The MGE Galaxy 5000 adapts to your changing needs

- > Expandable Power ranges
- > Parallel up to 6 modules for higher capacity or redundancy
- > Easy integration with networking and monitoring systems
- > A choice of backup times from 5 minutes to 8 hours
- > Compatible with inductive and leading power factor loads
- > Field Upgradeable from Single to Parallel



## Low total cost of ownership

The MGE Galaxy 5000 helps to minimize your infrastructure costs

- > Small footprint
- > Power factor corrected input prevents the need for oversizing cables, circuit breakers and generator
- > Efficiency in on-line double conversion mode up to 93.5%



# Features that make the difference

## IGBT based technology for Power Quality

Supplies clean, stable power to sensitive loads ensuring critical power protection, optimum performance, and extended life

## Parallel Operation

Connect as many as 6 units in parallel for capacity and redundancy to grow with your power requirements



## Dual Input

Allows for connection to two separate input sources for increased availability

## Redundant components

Back up for the Main Intelligence Module provides increased availability

## Built-In Static and maintenance Bypass

Enables the UPS to transfer the load to utility power, without interruption, in the event of heavy overload or fault

## Optional Auxiliary Gear

- > Input/Output transformers
  - 208V/220V/480V/600V
- > Wall Mount Battery Disconnect
- > Matching Battery Cabinets
  - Up to four (4) enclosures can be connected to the UPS for extended run times of up to 4 hours
- > Distribution
  - Panel board
  - Sub Feed Breakers
- > Matching External Maintenance Bypass
- > Parallel System Bypass Cabinets
- > Communication cards
  - RS232 / RS485 / Dry Contact
  - Network Management Card
- > Top Entry Cabinets
- > 65kAIC rating
- > Seismic Brackets
- > Remote Alarm Panel

# Technical characteristics

Rated power ( kVA/KW )	40/36	50/45	60/54	80/72	100/90	130/117
Normal AC Input						
Input Voltage (V)	480V Core, 3 Wire + G (220V, 208V, 600V w/ Aux Transformer 4 Wire + G)					
Frequency	60Hz +/- 5%					
Power Factor	< 0.99					
Current Distortion (THDI)	< 5%					
Bypass AC input						
Bypass Overload	10x nominal current for 1 cycle					
Load Output						
Output Voltage	480V Core, 3 Wire + G (220V, 208V, 600V w/ Aux Transformer 4 Wire + G)					
Frequency	60Hz					
Voltage Regulation	+/- 1.0% balance load , +/- 2.5% unbalanced load					
Voltage Transient Response	+/- 5% for 100% step load, +/-1% for loss or return of AC input					
Voltage Recovery Time	Within 1% of nominal within 1 cycle					
Voltage Distortion	<1% L-L and L-N for non-linear loads (<2% max)					
Inverter Overload	150% for 1 min, 125% for 10min					
Heat Rejection (BTU) @480V	9248	11560	13872	18496	19607	25489
Overall efficiency						
Double conversion mode	Up to 94%					
Environmental						
Storage temperature	-20C to +45C ( -4F to 113F)					
Operating temperature	UPS 0-40C (32F to 104F), Battery 25C(77F)					
Operating altitude	1000 m					
Dimensions and Weights						
Dimensions and weights	28" W x 33.42" D x 75" H (882 lbs)				28" W x 33.42" D x 75" H (1146 lbs)	
Matching Maintenance Bypass	28" W x 33.42" D x 75" H					
Transformer Cabinet	28" W x 33.42" D x 75" H					
Distribution Cabinet	42" W x 33.42" D x 75" H					
Top Entry Cabinet	14" W x 33.42" D x 75" H					
Battery Cabinet	26" W x 33.42" D x 75" H					
Battery Cabinet	32" W x 33.42" D x 75" H					
Battery Cabinet	48" W x 33.42" D x 75" H					
Parallel System Bypass Cabinet (480V Only)	28" or 42" W x 33.42" D x 75" H					

MGE Galaxy 5000 Single Line Diagram

