

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

