MGE™ Galaxy EPS™ 8000

Three phase UPS

1000/1100 kVA

Advanced Features

The MGE™ Galaxy EPS™ 8000 specifications read like a list of ideal answers to today's critical power user requirements.

- 0.9 output Power Factor
- Low kVAR Filter Design
- True Front Access
- Integrated isolation transformer
- 12 Pulse Rectifier
- Ground Fault Detection*
- Space saving footprint
- Highest kW per square foot
- Advanced graphical user interface*
- Fault tolerant circuitry
- Precision output voltage regulation
- Single or Parallel Ready
- Critical Bus Synchronization*
- Low installation costs and cable sizing

*Optional

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MGE™ Galaxy EPS™ 8000 Features

Integrated Input Isolation Transformer

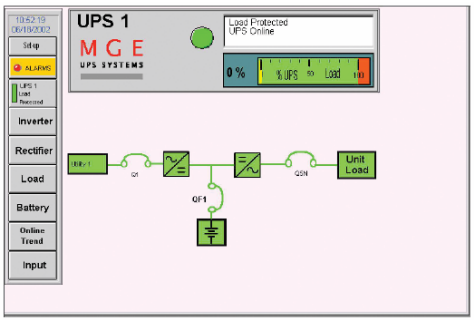
Every MGE™ Galaxy EPS™ 8000 1000kVA is equipped with an integrated copper input isolation transformer. Integrating the transformer directly into the module saves footprint and provides all the benefits of galvanic isolation including providing a very robust buffer between the utility and the critical load.

12 Pulse Rectifier

By using a 12 pulse rectifier the MGE™ Galaxy EPS™ 8000 greatly reduces nominal harmonics reflected onto the utility bus. This means that the input filter required to reduce harmonics down approximately 5% is only a fraction of the size of a traditional six pulse UPS module.

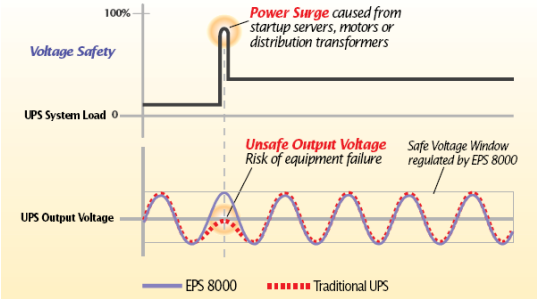
Graphical User Interface:

The Advanced Graphical Interface for the MGE™ EPS™ 8000 UPS system features a 12" high contrast TFT LCD touch screen. Delivering features including animated mimic diagrams, alarm event logs, trending, component level status and more, the interface presents UPS status information in an easy to read graphical format. Guided by a clear menu, users can navigate through all screens to explore system level information on multi-module systems drilling right down to module and component level information. Operator procedures simplify the use of the UPS, contributing to an overall increase in reliability by mitigating user errors.



100% step load response– The Essential Performance Characteristic

Another feature of MGE's Digital Power Quality Management technology is the inverters super dynamic response. Even in the event of a 100% step load (0% load to 100% load instantly placed on the output of the UPS) the output voltage will still remain in tolerance for all three phases.
Even when facing step load changes as high 100% of the nominal load, the MGE™ EPS™ 8000 inverter maintains output voltage regulation to within 5% or better on all phases.



Solid State Static Transfer Switch

When a UPS system experiences an overload condition that the inverter can not handle, it immediately transfers to utility power via the static transfer switch, allowing the utility to maintain the overload. Ideally the static transfer switch should be a 100% solid state assembly (consisting of two reverse biases SCRs). Some manufacturers have opted to use mechanical contractors in parallel with fast acting SCR static transfer switches. This hybrid technology allows the use of smaller, lower current, lower cost, partial duty static transfer switches to perform the fast switching from inverter to utility in the event of an overload condition, while the mechanical contactor activates to sustain the current in the long term.

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MGE™ Galaxy EPS™ 8000 Features

Parallel For Capacity and Redundancy 3+3

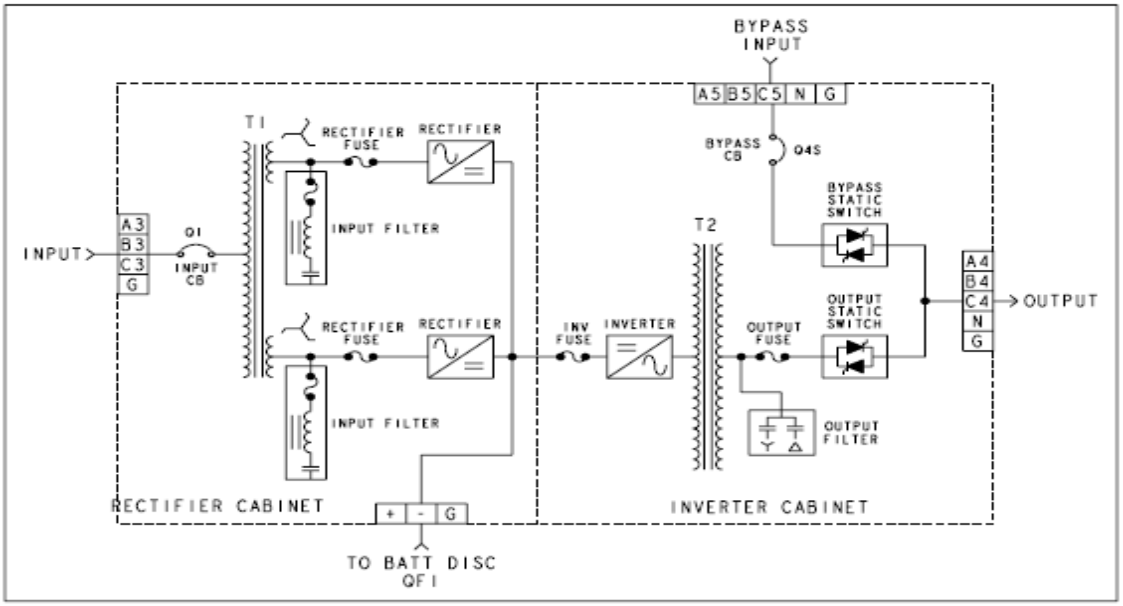
- 3 x 1100kVA (3969 Amps)
- Expandable up to 6 UPS modules
- Redundant Communication
- Parallel for Capacity/ Redundancy
- If a individual module goes offline or UPS shutdown, the critical load will be supported by the remaining modules

Space Saving Footprint With True Front Access

Fitting into a space as little as 141” wide, the MGE EPS-8000 has one of the highest power densities in a traditional general purpose UPS.

The integrated isolation transformer and input filter eliminate the need for bulky auxiliary cabinets. All EPS 8000 components are truly front accessible to meet your service requirements.

Single Module – Single Line Diagram



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Specification

Rated power (kVA)	1000	1100
Normal AC Input		
Input Voltage (V)	+10/-15 % UPS output (3ph,3/4 W + GRD)	
Frequency (Hz)	60 Hz ± 10%	
Power Factor	0.9 lagging , 0.95 with filter 4 kVAR max leading	
Distortion	5% max. THD at full load	
Nominal Input Current (A)	1300	1438
Maximum Input Current (A)	1446	1584
Bypass AC input		
Voltage (V)	+10/-15 % UPS output (3ph,3/4 W + GRD)	
Frequency (Hz)	60 Hz (+0.25 Hz up to 2 Hz)	
Input CB (kAIC)	65kAIC	
Input CB: Frame Size (A)	2000A	
Input CB : Trip (A)	2000A	
Nomal Bypass Current (A)	1203	1323
Maintenance Bypass CB² (kAIC)	65kAIC	
Maintenance Bypass CB Frame size (A)	2000A	
Maintenance Bypass CB Trip (A)	2000A	
Output		
Power Factor	0.9	
Output Voltage (V)	480 (3ph,3/4 W + GRD)	600 (3ph,3/4 W + GRD)
Frequency (Hz)	60 Hz (selectable +5%) 0.1% free running	
Voltage Regulation	+/- 0.5% steady state (+2.5% 100% step load)	
Voltage Distortion	4% max. for non-linear loads w/crest factor of 3.5 2% max. linear load	
Inverter Overload	125% for 10 minutes, 150% for 1 minute	
UPS Output isolation CB² (kAIC)	65 or 100kAIC	
UPS Output isolation CB Frame size (A)	2000A	
UPS Output isolation CB Trip (A)	2000A	
Max Output Current (A)	1203	1323
Battery		
Max DC Current (A)	2180	2390
DC Breaker Trip Size (A)	2500A	
DC Breaker Frame Size (A)	2500A	
Overall efficiency		
System efficiency	Up to 92%	
Full Load Heat rejection (BTUs)	339,000	
Environmental conditions		
Operating Temperature	0°C to 40°C (32°F to 104°F)	
Non-Operating	-20°C to +45°C (-4°F to 113°F)	
Audible Noise	75 dB 5'	
Relative Humidity	0-90% non condensing	
Dimensions and Weights		
UPS Module (W x H x D)	141.5" x 90" x 44" (17000lbs)	
Maintenance Bypass	24" x 90" x 44" (510 lbs)	
Bottom Entry	24" x 90" x 44" (510 lbs)	
Bottom Exit	24" x 90" x 44" (510 lbs)	
Critical Bus Synchronization	24" x 90" x 44" (510 lbs)	
Battery Disconnect (W x H x D)	36" x 90" x 39"	
Max. Shipping Split (W x H x D)	70" x 90" x 44"	

EPS 8000

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