

# MGE Galaxy 3000

“Scalable and ready to grow with your future power demands”

10 / 15 / 20 / 30 kVA



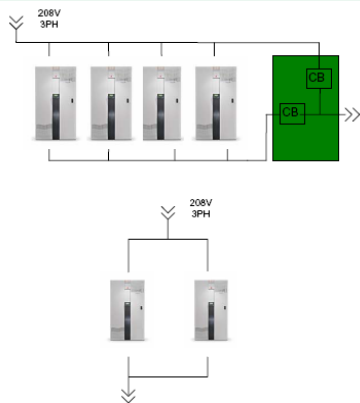
**Performance 3 Phase  
Power Protection with  
Adaptability to Meet  
the Unique  
Requirements of Small  
Datacenters and  
Building Critical  
Applications**

- > Strong electrical features
- > Easy to install
- > Intuitive to use
- > High availability architectures component

# MGE Galaxy 3000 10 / 15 / 20 / 30 KVA

## MGE Galaxy 3000 Topology

- > 4 Port Communications Interface
- > Microcontroller Management System
- > Internal Maintenance Bypass
- > Power Cable Connections
- > Bottom Entry Conduit Plate
- > IGBT Power Factor Corrected Rectifier
- > IGBT PWM Inverter
- > Battery Breaker
- > 4 Color Graphical User Interface
- > Internal Sealed Low Maintenance Battery Bank
- > Front Access Slide Out Battery Trays



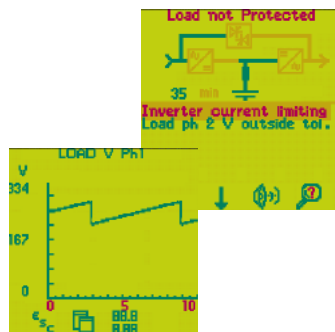
## MGE Galaxy 3000 Parallel

- > Up to 4 parallel modules (Parallel for capacity and redundancy)
- > 2 or 3 CB System Bypass Cabinet (60 and 90 kVA)
- > Up to Two – 42 Pole Distribution on SBC
- > Remote Alarm Status Panel
- > Secondary UPS Isolation (up to 4 Breakers)
- > Field Upgrade Kits (Unitary to Parallel)

## Graphical User Interface

Displays include:

- > Alarm / event logs
- > Battery usage history
- > Animated power flow diagrams
- > Phase balancing
- > Operator instructions
- > Power graphs



# MGE Galaxy 3000 features

## One-Line Double Conversion Topology

- > True isolation between the input and output
- > Independence of the input and output voltages and frequency
- > No-break transfer to battery or bypass power
- > No reliance on batteries for frequency stabilization

## Fault Tolerant Circuitry

- > 150% rated fast current limiting inverter and fully rated transfer switch
- > Robust static bypass switch
- > Inverter fast enough to current limit
- > Static transfer switch sustained enough current to clear the fault with out damage

## Digital Power Quality (DPQ)

- > Variable Switching Frequency
- > Sub Cycle Control of Output
- > Error Correction Pulses
- > Real Time References SineWave
- > Fast Switching Frequency

## Input Power Factor Correction

- > THDI < 3%, Power Factor > 0.99
- > No special installation precautions
- > No risk of harmonic problems of existing installations
- > Total compatibility with an generators, even for low loads
- > Current consumption reduced by up to 20%, allowing smaller upstream breakers, transformers and cables

## Generator Friendly Technology

- > Super wide frequency and voltage input range (<25%)
- > No leading power factor
- > Ultra low input THD
- > Smallest UPS to generator ratio in the industry
- > No reliance on battery power to regulate frequency like Delta Conversion technology

## Communication

- > Automatic shutdown / restart of an unlimited number of servers
- > View power system status from any point on the WAN
- > Integration with Enterprise-wide management systems
- > Pager or E-mail notification of power events
- > Load shedding for optimized use of backup power
- > Environmental monitoring and management



# Technical characteristics

UPS Rating kVA/KW	10/8	15/12	20/16	30/24
<b>Input</b>				
Input Voltage (V)	208V, 220V, 480V, 600V, 3 Phase, 4 Wire + G (+-15%) (Parallel Module 208V only)			
Frequency (Hz)	60 Hz (+ 8%/ -25%)			
Power Factor	<0.99			
Current Distortion (THDI)	<3%			
Input Current ( A @ 208V)	28	42	56	83
<b>Output</b>				
Voltage (V)	208V (220V, 480V, 600V w/aux cabinet), 3 Phase, 4 Wire + G (Parallel Module 208V only)			
Frequency (Hz)	60 Hz, +-1% (selectable to 4%), +-0.1% free running			
Voltage Regulation	+-1.0% for balanced load +-2.5% for 100% 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 THD	<3% L-L and L-N for non-linear loads			
Inverter Overload	120% for 1 min, 145% for 30 sec			
Bypass Overload	10 X nominal current for 1 cycle			
Output Current ( A @ 208 V)	28	42	56	83
Heat Rejection	4821	7232	8895	13342
<b>Environmental</b>				
Operating Temperature	UPS: 0° to 40°C (32°F to 104°F) Battery: 25°C (77°F)			
Non-Operating Temperature	-20°C to +45°C (-4°F to 113°F)			
Relative Humidity	0-95% non-condensing			
<b>Dimensions and Weights</b>				
Single Module				
UPS Micro Cabinet	23.0"W X 35.5"D X 48.5"H (830 lbs max)			
Standard Cabinet	32.8"W X 40.1"D X 62.4"H (2,565 lbs max)			
Auxiliary Cabinet	18.8"W X 40.1"D X 62.4"H (450 lbs max)			
Auxiliary Cabinet (42 Pole Distribution)	18.8"W X 40.1"D X 62.4"H (180 lbs max)			
Battery Cabinet	33.0"W X 35.6"D X 62.4"H (2,723 lbs max)			
Parallel Module				
UPS (20/30kVA)	32.8"W X 40.1"D X 62.4"H (7565 lbs max)			
System Bypass Cabinet	28.8"W X 35.64"D X 62.33"H (300 lbs max)			
Distribution Cabinet	18.8"W X 35.64"D X 62.33"H (180 lbs max)			
<b>Standards</b>				
	ISO 9001, UL 1778, cUL, UL924, FCC Part 15, Subpart J, Class A, NEMA PE 1, NEMA 250, NFPA 70, IEC 1000 (801) level 4, OSHA			

