

# Product data sheet

Specifications



## Galaxy VM 160 kVA UPS Single 480-208 V, 65kAIC, Start up 5x8

GVMS160KGF65S

### Overview

**Presentation** A highly compact, energy efficient 3-phase UPS with an integrated 480-208 volt transformer for data center, facility and industrial applications.

**Lead time** Usually Ships within 2 Weeks

### Main

**Main Input Voltage** 480 V 3 phase

**Main Output Voltage** 208 V 3 phase

**Kw Rating** 144 kW

**Rated power in VA** 160 kVA

**Output connector type** Hard Wire 4-wire (3PH + G) 1  
Hard Wire 5-wire (3PH + N + G) 1

**Battery type** External battery system

**Provided equipment** Dust filter  
Installation guide  
Integrated network management  
Seismic compliance  
Start-Up Service  
Top and bottom cable entry

### Batteries & Runtime

**Included Battery Modules** 0

**Battery Slots Empty** 0

**Battery voltage** 480V

**End of Discharge Battery Voltage** 384 V

**Maximum short-circuit current** 65 kA

**End of Discharge Maximum Battery Current** 440 A

**Overload Operation** 60 seconds @ 125% and 30 seconds @ 150%

**Battery design life** 5...10 year(s)

**Battery power in VAH** 0 VAh runtime

**Battery Life** 7...10 year(s)

**Battery option** GVMMBTU  
GVMMODBCWS  
GVMMODBCNS

|                               |  |
|-------------------------------|--|
| <b>Battery graph comments</b> | Estimated runtimes based on battery vendor data, at typical environmental conditions, with no electrical input and balanced PF = 0.9 output. |
|-------------------------------|--|

|                            |   |
|----------------------------|---|
| <b>Extendable Run Time</b> | 0 |
|----------------------------|---|

## General

|                                 |                                       |
|---------------------------------|---------------------------------------|
| <b>Bypass Voltage Tolerance</b> | +/-10% settable from +/-4/6/8 and 10% |
|---------------------------------|---------------------------------------|

|                                 |       |
|---------------------------------|-------|
| <b>Max Bypass Input Current</b> | 217 A |
|---------------------------------|-------|

|                                 |       |
|---------------------------------|-------|
| <b>Bypass Protection Device</b> | 400 A |
|---------------------------------|-------|

|                  |    |
|------------------|----|
| <b>Redundant</b> | No |
|------------------|----|

## Physical

|              |       |
|--------------|-------|
| <b>Color</b> | White |
|--------------|-------|

|               |                   |
|---------------|-------------------|
| <b>Height</b> | 77.56 in (197 cm) |
|---------------|-------------------|

|              |                     |
|--------------|---------------------|
| <b>Width</b> | 70.94 in (180.2 cm) |
|--------------|---------------------|

|              |                    |
|--------------|--------------------|
| <b>Depth</b> | 33.62 in (85.4 cm) |
|--------------|--------------------|

|                   |                            |
|-------------------|----------------------------|
| <b>Net Weight</b> | 4134.99 lb(US) (1875.6 kg) |
|-------------------|----------------------------|

|                       |    |
|-----------------------|----|
| <b>USB compatible</b> | No |
|-----------------------|----|

## Input

|                        |            |
|------------------------|------------|
| <b>Input Frequency</b> | 40 - 70 Hz |
|------------------------|------------|

|                                   |                              |
|-----------------------------------|------------------------------|
| <b>Number of input connectors</b> | 1 Hard Wire 3-wire (3PH + G) |
|-----------------------------------|------------------------------|

|                                |   |
|--------------------------------|---|
| <b>Efficiency at full load</b> | 360...576 V adjustable 480 V<br>360...576 V 480 V |
|--------------------------------|---|

|  |       |
|--|-------|
| <b>Maximum Input Current per Phase</b> | 278 A |
|--|-------|

|                                   |       |
|-----------------------------------|-------|
| <b>Switching current capacity</b> | 400 A |
|-----------------------------------|-------|

|  |       |
|--|-------|
| <b>Maximum Short Circuit Withstand (Icw)</b> | 65 kA |
|--|-------|

|  |                            |
|--|----------------------------|
| <b>Input Total Harmonic Distortion</b> | Less than 3% for full load |
|--|----------------------------|

|                              |                |
|------------------------------|----------------|
| <b>Input protection type</b> | 3-pole breaker |
|------------------------------|----------------|

|                       |           |
|-----------------------|-----------|
| <b>Inrush current</b> | 200A peak |
|-----------------------|-----------|

|                          |                            |
|--------------------------|----------------------------|
| <b>Load power factor</b> | 0.5 leading to 0.5 lagging |
|--------------------------|----------------------------|

|  |   |
|--|---|
| <b>Input Power Factor at Full Load</b> | 1 |
|--|---|

## Output

|                                       |        |
|---------------------------------------|--------|
| <b>Max Configurable Power (Watts)</b> | 144 kW |
|---------------------------------------|--------|

|                            |              |
|----------------------------|--------------|
| <b>Harmonic distortion</b> | Less than 2% |
|----------------------------|--------------|

|   |   |
|---|---|
| <b>Output Frequency (sync to mains)</b> | 50/60 Hz +/- 1 Hz sync to mains<br>50/60 Hz +/- 1 Hz not synced |
|---|---|

|                     |           |
|---------------------|-----------|
| <b>Crest factor</b> | Unlimited |
|---------------------|-----------|

|                      |           |
|----------------------|-----------|
| <b>Waveform Type</b> | Sine wave |
|----------------------|-----------|

|                                 |  |
|---------------------------------|--|
| <b>Output voltage tolerance</b> | +/- 1% static and +/- 3% at 100% load step |
|---------------------------------|--|

|                           |  |
|---------------------------|--|
| <b>Output Voltage THD</b> | < 2% linear load and < 3% non-linear load<br><br>10 minutes @ 125% and 60 seconds @ 150% |
|---------------------------|--|

|   |       |
|---|-------|
| <b>Required Output Current Protection</b> | 445 A |
|---|-------|

|                               |       |
|-------------------------------|-------|
| <b>Neutral Output Current</b> | 195 A |
|-------------------------------|-------|

|                    |  |
|--------------------|--|
| <b>Bypass type</b> | Built-in Static Bypass<br>95.5 % in battery operation) |
|--------------------|--|

|   |         |
|---|---------|
| <b>Maximum configurable power in VA</b> | 160 kVA |
|---|---------|

## Conformance

|                               |   |
|-------------------------------|---|
| <b>Product Certifications</b> | cUL Listed<br>FCC part 15 class A<br>FCC part 15 class B<br>UL 1778 |
|-------------------------------|---|

|                  |  |
|------------------|--|
| <b>Standards</b> | EN/IEC 62040-3<br>IBC 2012 and CBC2013 to Sds=2.02g<br>OSHPD |
|------------------|--|

## Environmental

|  |                         |
|--|-------------------------|
| <b>Ambient air temperature for operation</b> | 32...104 °F (0...40 °C) |
|--|-------------------------|

|                          |          |
|--------------------------|----------|
| <b>Relative Humidity</b> | 0...95 % |
|--------------------------|----------|

|                           |             |
|---------------------------|-------------|
| <b>Operating altitude</b> | 0...3333 ft |
|---------------------------|-------------|

|  |                          |
|--|--------------------------|
| <b>Ambient Air Temperature for Storage</b> | 5...104 °F (-15...40 °C) |
|--|--------------------------|

|                                  |          |
|----------------------------------|----------|
| <b>Storage Relative Humidity</b> | 0...95 % |
|----------------------------------|----------|

|                         |                                  |
|-------------------------|----------------------------------|
| <b>Storage altitude</b> | 0...49212 ft (0.00...14999.82 m) |
|-------------------------|----------------------------------|

|                       |        |
|-----------------------|--------|
| <b>Acoustic level</b> | 65 dBA |
|-----------------------|--------|

|                         |             |
|-------------------------|-------------|
| <b>Heat dissipation</b> | 10919 Btu/h |
|-------------------------|-------------|

|                                |      |
|--------------------------------|------|
| <b>IP degree of protection</b> | IP20 |
|--------------------------------|------|

## Communications & Management

|                   |   |
|-------------------|---|
| <b>Free slots</b> | 2 |
|-------------------|---|

|                      |                         |
|----------------------|-------------------------|
| <b>Control panel</b> | 7" touch screen display |
|----------------------|-------------------------|

|                                  |          |
|----------------------------------|----------|
| <b>Emergency Power Off (EPO)</b> | Optional |
|----------------------------------|----------|

## Ordering and shipping details

|             |              |
|-------------|--------------|
| <b>GTIN</b> | 731304326540 |
|-------------|--------------|

## Packing Units

|                               |     |
|-------------------------------|-----|
| <b>Unit Type of Package 1</b> | PCE |
|-------------------------------|-----|

|                                     |   |
|-------------------------------------|---|
| <b>Number of Units in Package 1</b> | 1 |
|-------------------------------------|---|

|                         |                     |
|-------------------------|---------------------|
| <b>Package 1 Height</b> | 84.88 in (215.6 cm) |
|-------------------------|---------------------|

|                        |                   |
|------------------------|-------------------|
| <b>Package 1 Width</b> | 41.73 in (106 cm) |
|------------------------|-------------------|

|                         |                     |
|-------------------------|---------------------|
| <b>Package 1 Length</b> | 80.00 in (203.2 cm) |
|-------------------------|---------------------|

|                         |                             |
|-------------------------|-----------------------------|
| <b>Package 1 Weight</b> | 4235.00 lb(US) (1920.96 kg) |
|-------------------------|-----------------------------|

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| <b>California proposition 65</b> | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
|----------------------------------|---|

|                          |  |
|--------------------------|--|
| <b>EU RoHS Directive</b> | Compliant<br><a href="#">EU RoHS Declaration</a> |
|--------------------------|--|

|                     |     |
|---------------------|-----|
| <b>Mercury free</b> | Yes |
|---------------------|-----|

|                                    |   |
|------------------------------------|---|
| <b>RoHS exemption information</b>  | <a href="#">Yes</a>                           |
| <b>Environmental Disclosure</b>    | <a href="#">Product Environmental Profile</a> |
| <b>Circularity Profile</b>         | <a href="#">End of Life Information</a>       |
| <b>Optimized Energy Efficiency</b> | Energy efficient product                      |
| <b>Take-back</b>                   | Take-back program available                   |

### **Contractual warranty**

|                 |   |
|-----------------|---|
| <b>Warranty</b> | 1 year on-site repair or replace with factory authorized Start-Up |
|-----------------|---|

### **Recommended replacement(s)**