

Smallest Power Entry Module with Metric Fuse Holders

GG & HG Series



UL Recognized
CSA Certified
VDE Approved



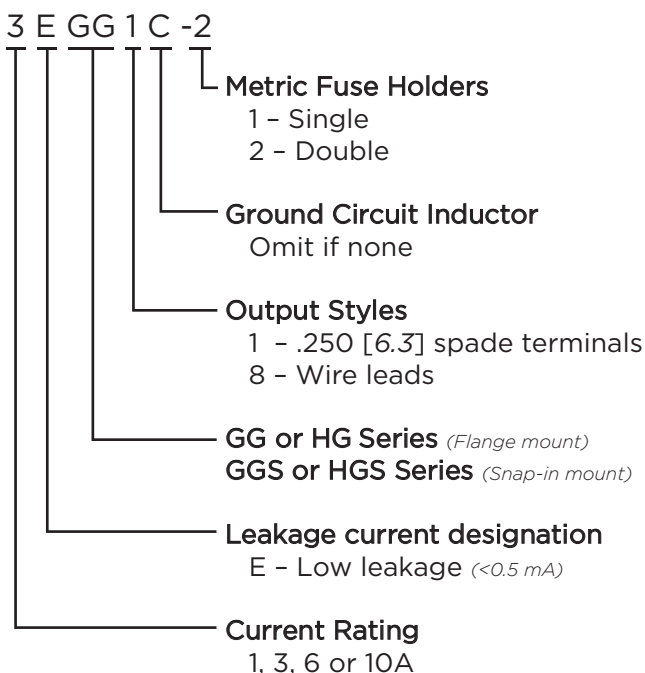
GG Series

- Power entry module with enhanced EMI filter
- Single or dual fusing
- Two element circuit provides basic attenuation
- Available with an internal ground-circuit inductor (C versions) to isolate equipment chassis from power line ground at radio frequencies
- Multiple termination and mounting styles

HG Series

- Medical version of our GG Series
- Mechanically identical to GG Series
- Available only with dual fusing

Ordering Information



Specifications

Maximum leakage current each Line to Ground:

| | HG Models | GG Models |
|------------------|-----------------|-----------|
| @ 120 VAC 60 Hz: | 2 μA | .25 mA |
| @250 VAC 50 Hz: | 5 μA | .42 mA |

Hipot rating (one minute):

| | |
|-----------------|----------|
| Line to Ground: | 2250 VDC |
| Line to Line: | 1450 VDC |

Rated Voltage (max.): 250 VAC

Operating Frequency: 50/60 Hz

Rated Current: 1 to 10A

Required Fuse(s): 5 x 20mm
(not included)

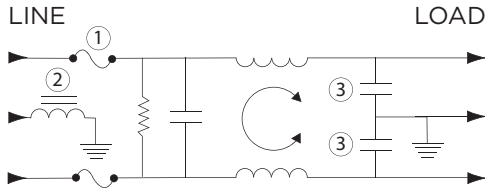
Available Part Numbers

| Filtered modules | | | |
|---|----------|----------|-----------|
| 1EGG1-1 | 3EGG1-1 | 6EGG1-1 | 10EGG1-1 |
| 1EGG1-2 | 3EGG1-2 | 6EGG1-2 | 10EGG1-2 |
| 1EGG8-1 | 3EGG8-1 | 6EGG8-1 | 10EGG8-1 |
| 1EGG8-2 | 3EGG8-2 | 6EGG8-2 | 10EGG8-2 |
| 1EGS1-1 | 3EGS1-1 | 6EGS1-1 | 10EGS1-1 |
| 1EGS1-2 | 3EGS1-2 | 6EGS1-2 | 10EGS1-2 |
| Filtered modules with ground circuit inductor | | | |
| 1EGG1C-1 | 3EGG1C-1 | 6EGG1C-1 | |
| 1EGG1C-2 | 3EGG1C-2 | 6EGG1C-2 | |
| 1EGG8C-1 | 3EGG8C-1 | 6EGG8C-1 | |
| 1EGG8C-2 | 3EGG8C-2 | 6EGG8C-2 | |
| Medical filter modules | | | |
| 1EHG1-2 | 3EHG1-2 | 6EHG1-2 | 10EHG1-2 |
| 1EHG8-2 | 3EHG8-2 | 6EHG8-2 | 10EHG8-2 |
| 1EHGS1-2 | 3EHGS1-2 | 6EHGS1-2 | 10EHGS1-2 |

Smallest Power Entry Module with Metric Fuse Holders *(continued)*

GG & HG Series

Electrical Schematic

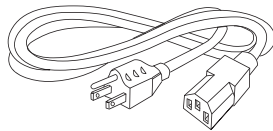


Note 1: Second fuse only in -2 version
Note 2: C versions only
Note 3: Not present in HG versions

Warning: Do not attempt to operate a single-fused model without the fuse door in place.

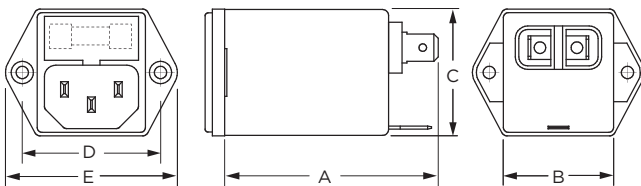
Accessories

GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord



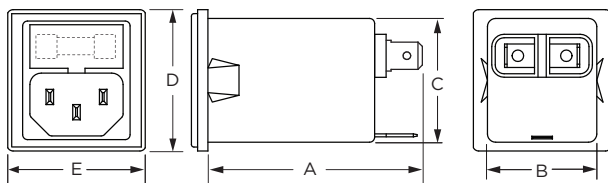
Case Styles

GG1, GG1C & HG1



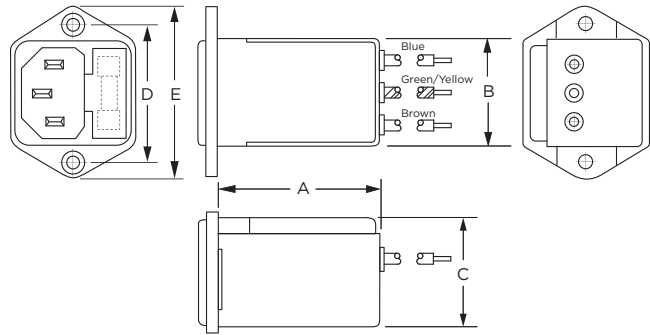
Typical Dimensions:
Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90°
countersink for #4 flathead screw
Line Inlet (1): IEC 60320-1 C14
Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole
Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

GS1 & HGS1



Typical Dimensions:
Line Inlet (1): IEC 60320-1 C14
Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole
Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

GG8 & HG8



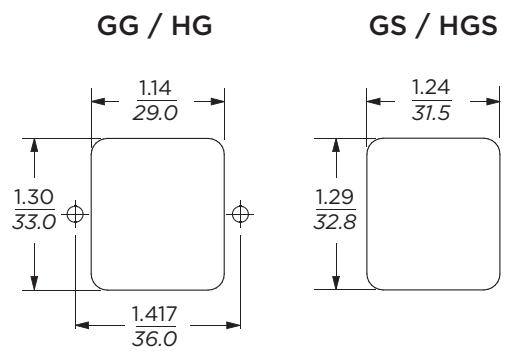
Typical Dimensions:
Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90°
countersink for #4 flathead screw
Line Inlet (1): IEC 60320-1 C14
Wire Leads: 5.0 [127.0] Min., 18AWG, UL1015

Case Dimensions

| Part No. | A (max.) | B (max.) | C (max.) | D $\pm .015$ $\pm .38$ | E (max.) |
|-----------|-----------------------------|----------------------------|----------------------------|------------------------------|----------------------------|
| GG1 & HG1 | 2.13 <i>54.5</i> | 1.13 <i>28.7</i> | 1.29 <i>32.8</i> | 1.417 <i>36.0</i> | 1.76 <i>44.7</i> |
| GG1C | 2.45 <i>62.23</i> | 1.13 <i>28.7</i> | 1.28 <i>32.5</i> | 1.417 <i>36.0</i> | 1.76 <i>44.7</i> |
| GS1, HGS1 | 2.13 <i>54.0</i> | 1.13 <i>28.7</i> | 1.28 <i>32.5</i> | 1.46* <i>36.0*</i> | 1.42 <i>36.1</i> |
| GG8, HG8 | 2.02 <i>51.1</i> | 1.13 <i>28.7</i> | 1.29 <i>32.8</i> | 1.417 <i>36.0</i> | 1.76 <i>44.7</i> |

*max. dimension

Recommended Panel Cutouts



Front or Back Mount

Front Mount Only

Typical Dimensions:
GS / HGS panel thickness: 0.032 – 0.080 [0.81 – 2.03]
Corner radius: 0.138 [0.35]

Smallest Power Entry Module with Metric Fuse Holders *(continued)*

GG & HG Series

Performance Data

Typical Insertion Loss Measured in closed 50 Ohm system

GG & GS Models

1A



3A



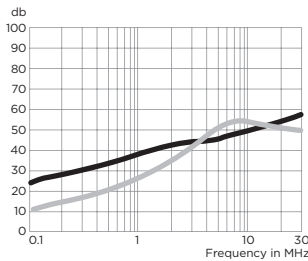
6A



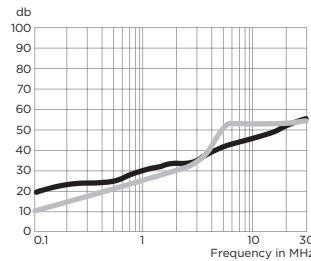
10A



3A GGIC



6A GGIC



— Common Mode / Asymmetrical (L-G)
— Differential Mode / Symmetrical (L-L)

HG Models

1A



3A



6A



10A



Minimum Insertion Loss Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

| Current Rating | Frequency – MHz | | | | | | | | |
|---------------------------|-----------------|-----|-----|-----|----|----|----|----|----|
| | .01 | .05 | .10 | .15 | .5 | 1 | 5 | 10 | 30 |
| GG & GS Models | | | | | | | | | |
| 1A | 12 | 23 | 29 | 32 | 41 | 47 | 50 | 50 | 55 |
| 3A | - | 10 | 15 | 19 | 30 | 36 | 48 | 50 | 53 |
| 6A | - | 1 | 4 | 10 | 16 | 22 | 36 | 40 | 50 |
| 10A | - | 1 | 2 | 4 | 6 | 8 | 26 | 33 | 28 |
| HG Models | | | | | | | | | |
| 1A | 12 | 23 | 29 | 32 | 40 | 40 | 28 | 22 | 18 |
| 3A | - | 10 | 15 | 19 | 25 | 26 | 22 | 21 | 21 |
| 6A | - | 4 | 10 | 14 | 18 | 18 | 14 | 14 | 14 |
| 10A | 1 | - | - | 3 | 5 | 6 | 8 | 9 | 10 |

Differential Mode / Symmetrical (Line to Line)

| Current Rating | Frequency – MHz | | | | | | | | |
|---------------------------|-----------------|-----|----|----|----|----|----|----|--|
| | .10 | .15 | .5 | 1 | 3 | 5 | 10 | 30 | |
| GG & GS Models | | | | | | | | | |
| 1A | 1 | 3 | 14 | 23 | 41 | 47 | 50 | 44 | |
| 3A | 1 | 2 | 11 | 14 | 25 | 38 | 44 | 40 | |
| 6A | 1 | 2 | 10 | 13 | 23 | 33 | 39 | 42 | |
| 10A | 4 | 7 | 17 | 23 | - | 22 | 43 | 38 | |
| HG Models | | | | | | | | | |
| 1A | 2 | 6 | 19 | 26 | 30 | 35 | 35 | 20 | |
| 3A | 1 | 7 | 16 | 23 | 30 | 30 | 30 | 30 | |
| 6A | 4 | 7 | 16 | 23 | 30 | 30 | 30 | 30 | |
| 10A | - | 8 | 16 | 22 | - | 37 | 43 | 28 | |