Corcom Product Guide

## Power Inlet Line Filter for Medical Equipment

## H Series



## UL Recognized

CSA Certified
VDE Approved*


## H Series

- Minimal leakage current suitable for medical equipment
- Two element circuit provides basic EMI attenuation above 1 MHz
- Available with an internal ground circuit inductor (C suffix versions) to isolate equipment chassis from power line ground at radio frequencies
- Flanged mounting the same as the EC, ED and EF Series
- Capacitive output (see EAH, EBH and EJH Series for capacitive input)


## Ordering Information

3 E H 1 C


## Specifications

Maximum leakage current each Line to Ground:
@ 120 VAC 60 Hz :
$2 \mu \mathrm{~A}$
@250 VAC 50 Hz : $5 \mu \mathrm{~A}$

Hipot rating (one minute):
Line to Ground:
2250 VDC
Line to Line: 1450 VDC

Rated Voltage (max.): 250 VAC

Operating Frequency:
$50 / 60 \mathrm{~Hz}$
Rated Current:
3 to 15A*
Operating Ambient Temperature Range
(at rated current $I_{r}$ ):
$-10^{\circ} \mathrm{C}$ to $+40^{\circ} \mathrm{C}$
In an ambient temperature ( $\mathrm{T}_{\mathrm{a}}$ ) higher than $+40^{\circ} \mathrm{C}$
the maximum operating current $\left(I_{0}\right)$ is calculated as follows: $I_{O}=I_{r} \sqrt{(85-\mathrm{Ta}) / 45}$

Electrical Schematic


Available Part Numbers

| $3 E H 1$ | $6 E H 8$ |
| :---: | :---: |
| $3 E H 3$ | $6 E H 9$ |
| $6 E H 1$ | $10 E H 1$ |
| $6 E H 3$ | $10 E H 3$ |
| $6 E H 4$ | $10 E H 4$ |
| $6 E H 5$ | $15 E H 4$ |

Ground Circuit Inductor Versions

## 10EH4C

*15A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 10A, 250VAC
*IEC 60320-1 C14 inlet mates with C13 connector

## Power Inlet Line Filter for Medical Equipment (continued)

## H Series

## Case Styles

H1 (Chassis Mount)


H3


Typical Dimensions:

> Mounting Holes: Wire Leads(5):
. 188 [4.78] Dia 4.0 [101.6] Min., 18AWG, UL1015

H4 \& H4C


Typical Dimensions:
Line Inlet (1): Load Terminals (2): Ground Terminal (1):


## Recommended Panel Cutouts



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## H Series

## Case Dimensions

| Part No. | $\underset{(\text { max. })}{\boldsymbol{A}}$ | $\underset{\text { (max.) }}{\text { B }}$ | $\underset{(\text { max. })}{C}$ | $\underset{\substack{\mathrm{D} \\ \pm \pm .015 \\ \pm .38}}{ }$ | $\underset{\text { (max.) }}{\mathrm{E}}$ | $\underset{(\text { ref. })}{\mathrm{F}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| H1 | 2.25 | 1.82 | 0.66 | 2.125 | 2.53 |  |
|  | 57.2 | 46.1 | 16.7 | 53.98 | 64.2 |  |
| H3 | . 96 | 1.82 | 0.66 | 2.125 | 2.53 |  |
|  | 24.40 | 46.1 | 16.7 | 53.98 | 64.2 |  |
| 6EH4 | 2.20 | 1.19 | 0.81 | 1.575 | 1.98 |  |
|  | 55.9 | 30.2 | 20.6 | 40.01 | 50.3 |  |
| 10EH4, <br> 10EH4C | 2.62 | 1.19 | 0.81 | 1.575 | 1.98 |  |
|  | 66.5 | 30.2 | 20.6 | 40.01 | 50.3 |  |
| 15EH4 | 2.62 | 1.19 | 0.81 | 1.575 | 1.98 |  |
|  | 66.5 | 30.2 | 20.6 | 40.01 | 50.3 |  |
| H5 | 1.55 | 1.19 | 0.85 | 1.575 | 1.98 | $\begin{aligned} & .295 \\ & 7.5 \\ & \hline \end{aligned}$ |
|  | 39.4 | 30.2 | 21.6 | 40.01 | 50.3 |  |
| H8 | 1.56 | 1.19 | 0.81 | 1.575 | 1.98 | . 295 |
|  | 39.7 | 30.2 | 20.6 | 40.01 | 50.3 | 7.5 |
| H9 | 1.55 | 1.19 | 0.85 | 1.575 | 1.98 |  |
|  | 39.4 | 30.2 | 21.6 | 40.01 | 50.3 |  |

## Accessories

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


FA601: Insulating Shroud


## Performance Data

## Typical Insertion Loss

Measured in closed 50 Ohm system


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

## Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

| Current | $\mathbf{c}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rating | $\mathbf{1 5}$ | $\mathbf{. 5}$ | $\mathbf{1}$ | $\mathbf{5}$ | $\mathbf{1 0}$ | $\mathbf{3 0}$ |
| 3 A | 18 | 27 | 30 | 30 | 27 | 18 |
| 6 A | 9 | 16 | 20 | 26 | 23 | 18 |
| 10 A | 7 | 13 | 15 | 17 | 16 | 14 |
| 15 A | 5 | 9 | 11 | 12 | 11 | 9 |

