7

Power Inlet Filters & Power Entry Modules

Power Inlet Line Filter for Medical Equipment

H Series



UL Recognized CSA Certified VDE Approved*



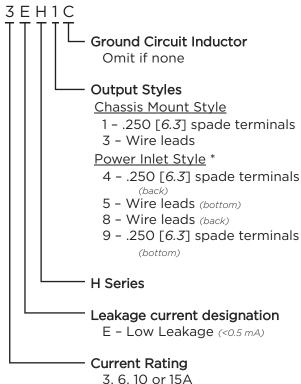
Catalog: 1654001

Issue Date: 06.2011

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



*IEC 60320-1 C14 inlet mates with C13 connector

Specifications

Maximum leakage current each Line to Ground:

@ 120 VAC 60 Hz:@ 250 VAC 50 Hz:2 μA5 μA

Hipot rating (one minute):

Line to Ground: 2250 VDC
Line to Line: 1450 VDC

Rated Voltage (max.): 250 VAC

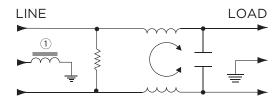
Operating Frequency: 50/60 Hz

Rated Current: 3 to 15A*

Operating Ambient Temperature Range

(at rated current I_r): -10°C to +40°C In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

Electrical Schematic



Available Part Numbers

3EH1	6EH8			
3EH3	6EH9			
6EH1	10EH1			
6EH3	10EH3			
6EH4	10EH4			
6EH5	15EH4			
Ground Circuit Industor Versions				

Ground Circuit Inductor Versions

10EH4C

*15A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 10A, 250VAC



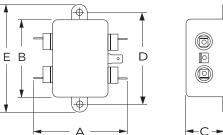
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Power Inlet Line Filter for Medical Equipment (continued)

H Series

Case Styles

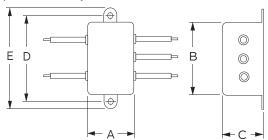
H1 (Chassis Mount)



Typical Dimensions:

Mounting Holes: Line / Load Terminals (4): Ground Terminal (1): .188 [4.78] Dia. .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

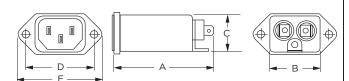
H3 (Chassis Mount)



Typical Dimensions:

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

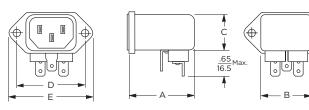
H4 & H4C



Typical Dimensions:

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

H9

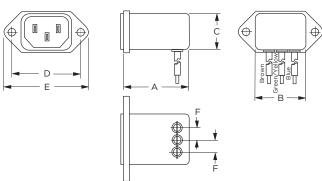


Typical Dimensions:

Line Inlet (1): Load Terminals (2): Ground Terminal (1): IEC 60320-1 C14 .250 [6.3] with .07 [1.8] Di

.250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

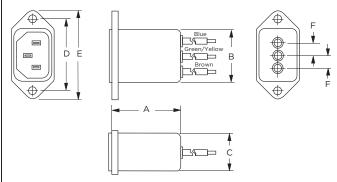
H5



Typical Dimensions: Line Inlet (1): Wire Leads:

IEC 60320-1 C14 4.0 [101.6] Min., 18AWG, UL1015

H8

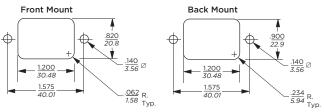


Typical Dimensions:

4

Line Inlet (1): Wire Leads: IEC 60320-1 C14 4.0 [*101.6*] Min., 18AWG, UL1015

Recommended Panel Cutouts



Tolerances ± .005 [0.13] unless otherwise noted

Note 1: H4, H4C and H8 allow for front or back mounting Note 2: H5 and H9 allow for back mounting only



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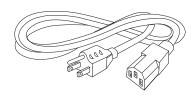
H Series

Case Dimensions

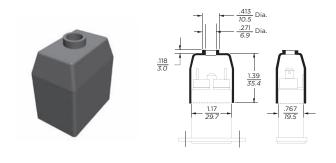
Part No.	Α	В	С	D	Ε	F			
	(max.)	(max.)	(max.)	± 015 ± 38	(max.)	(ref.)			
H1	2.25	1.82	0.66	2.125	2.53	_			
	57.2	46.1	16.7	53.98	64.2				
H3	.96	1.82	0.66	2.125	2.53	_			
	24.40	46.1	16.7	53.98	64.2				
6EH4	2.20	1.19	0.81	1.575	1.98	_			
	55.9	30.2	20.6	40.01	50.3				
10EH4, 10EH4C	2.62	1.19	0.81	1.575	1.98	_			
	66.5	30.2	20.6	40.01	50.3				
15EH4	2.62	1.19	0.81	1.575	1.98	_			
15114	66.5	30.2	20.6	40.01	50.3				
H5	1.55	1.19	0.85	1.575	1.98	.295			
	39.4	30.2	21.6	40.01	50.3	7.5			
Н8	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	_			
115	39.4	30.2	21.6	40.01	50.3				

Accessories

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



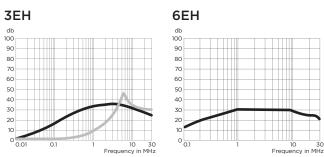
FA601: Insulating Shroud



Performance Data

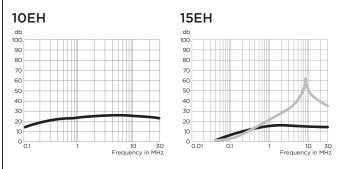
Typical Insertion Loss

Measured in closed 50 Ohm system



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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		Frequency – MHz					
Rating	.15	.5	1	5	10	30	
3A	18	27	30	30	27	18	
6A	9	16	20	26	23	18	
10A	7	13	15	17	16	14	
15A	5	9	11	12	11	9	