AMI-2200 High Performance High Voltage DC EMI Filters

Description

Filter with additional differential mode rejection in low frequency. For use with switched mode power supplies to reduce noise from power supply back into the mains. Filter also provides good attenuation of incoming interference.

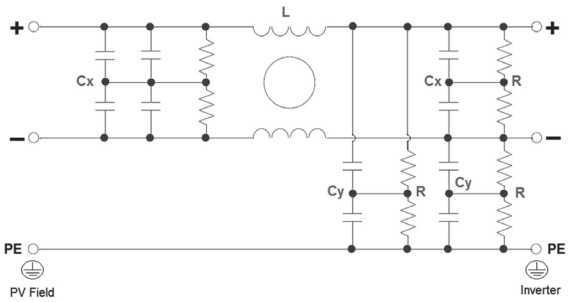
Features

- Single stage filter
- Low leakage version available
- High conducted attenuation performance
- Superior Performance
- Chassis mounting

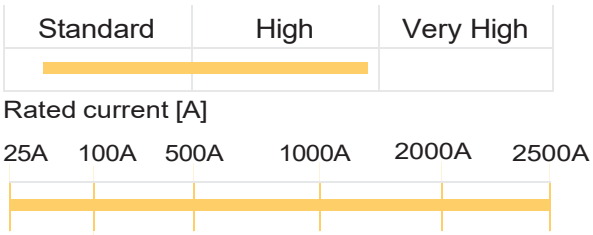
Applications

- PV Inverters
- UPS
- DC Motor Drives
- DC Quick Chargers
- Energy / Battery storage systems
- DC Charger Installations

Typical Circuit Diagram



Typical Circuit Diagram



Certificates

UL Approval Pending

Technical Specifications

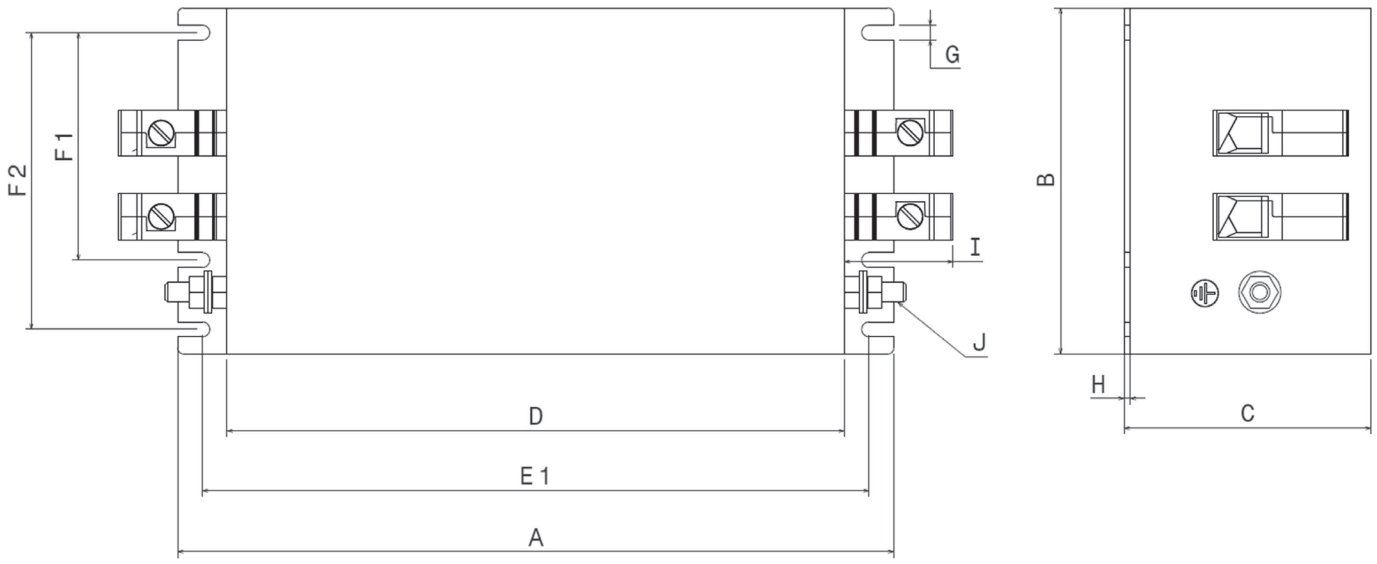
Maximum Continuous Operating Voltage	1200 VDC Max
Rated Current	25A to 2500A @55°C
High Potential test voltage	+, - to PE 3600VDC for 2 sec + to - 3000VDC for 2 sec
Overload Capability	135% of Rated current for 15 minutes
Design Corresponding to	UL1283, CSA 22.2 No.8-13 and IEC 60939
Flammability corresponding to	UL 94 V-0 or better
Temperature range	-25°C to +85°C
Climatic Category	25/85/21

Selection Table

Part Number	Rated Current @55°C	Input / Output Connections		Weight (Kilo Grams)(Max)
AMI-2200-25	25A	16	-	1.2
AMI-2200-50	50A	35	-	1.8
AMI-2200-75	75A	35	-	2
AMI-2200-100	100A	50	-	3
AMI-2200-150	150A	95	-	5
AMI-2200-250	250A	-	●	5.2
AMI-2200-400	400A	-	●	6.5
AMI-2200-600	600A	-	●	7
AMI-2200-800	800A	-	●	9.5
AMI-2200-1000	1000A	-	●	9.8
AMI-2200-1500	1500A	-	●	17
AMI-2200-2500	2500A	-	●	28
AMI-2200L-25	25A	16	-	1.2
AMI-2200L-50	50A	35	-	1.8
AMI-2200L-75	75A	35	-	2
AMI-2200L-100	100A	50	-	3
AMI-2200L-150	150A	95	-	5
AMI-2200L-250	250A	-	●	5.2
AMI-2200L-400	400A	-	●	6.5
AMI-2200L-600	600A	-	●	7
AMI-2200L-800	800A	-	●	9.5
AMI-2200L-1000	1000A	-	●	9.8
AMI-2200L-1500	1500A	-	●	17
AMI-2200L-2500	2500A	-	●	28

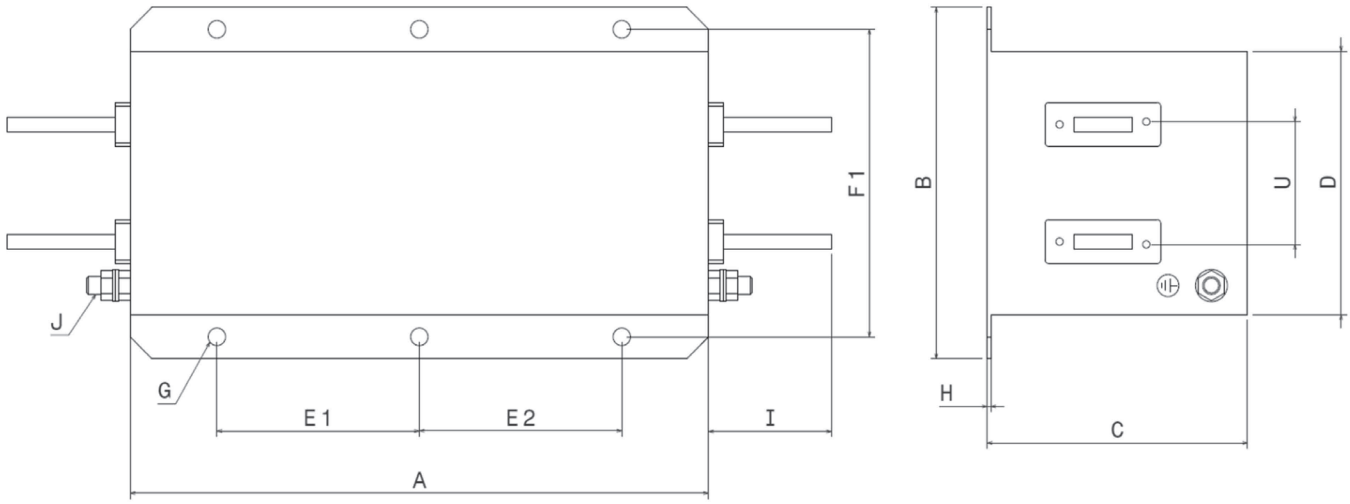
Mechanical Drawing

25A to 150A Types



Material/Finish : CRCA/Nickel Plating

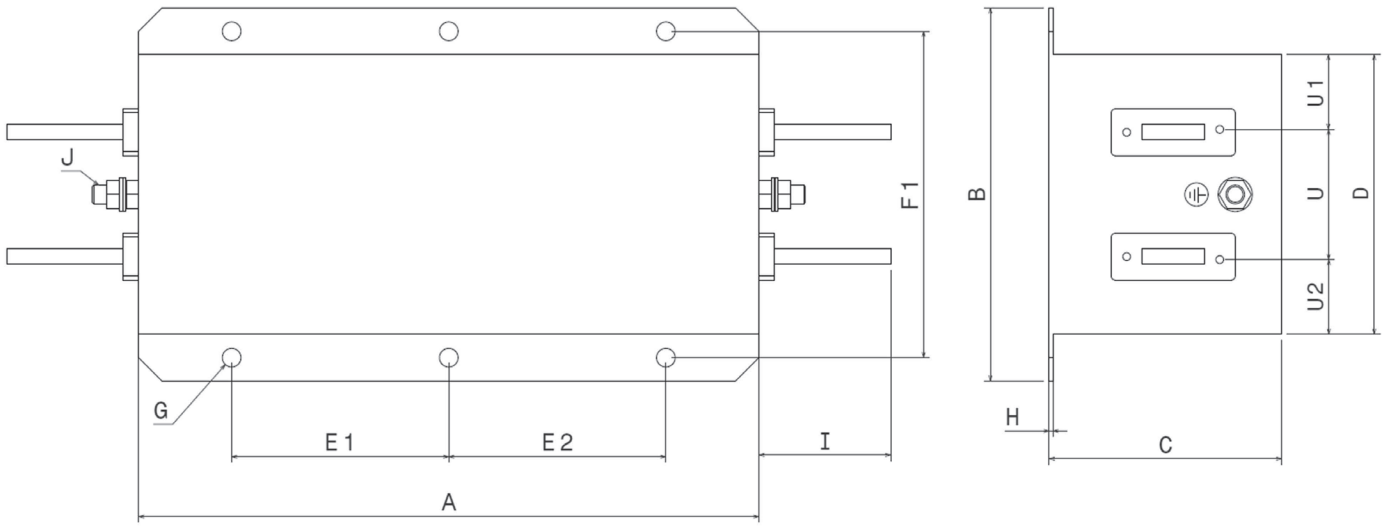
250A to 600A Types



Material/Finish : CRCA/Nickel Plating

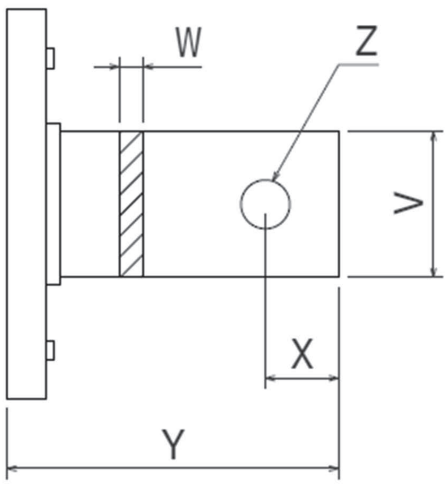
Mechanical Drawing

800A to 2500A Types

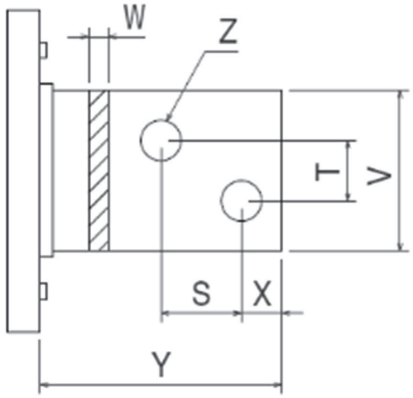


Material/Finish : CRCA/Nickel Plating

250A to 1000A Types

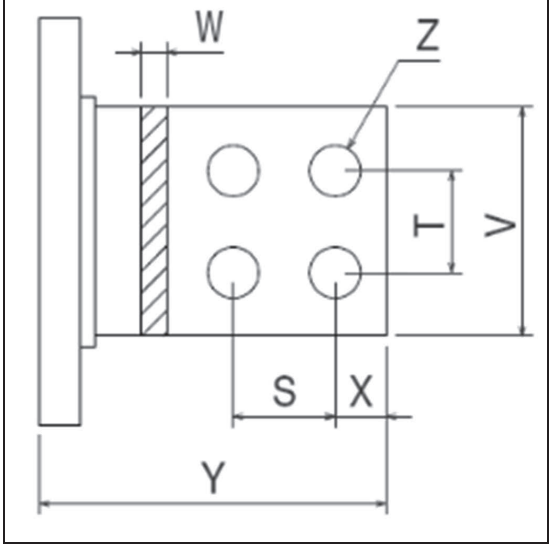


1500A Types



Mechanical Drawing

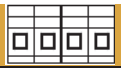
2500A Types



Dimensions (mm)

	25A	50A	75A	100A	150A	250A	400A	600A	800A	1000A	1500A	2500A
A	*170*	*200*	*200*	*220*	*250*	*300*	*300*	*300*	*300*	*300*	*300*	*400*
B	*80*	*95*	*95*	*125*	*140*	*180*	*190*	*190*	*200*	*200*	*200*	*250*
C	*65*	*80*	*80*	*95*	*115*	*110*	*110*	*110*	*140*	*140*	*150*	*180*
D	*140*	*170*	*170*	*190*	*220*	*130*	*140*	*140*	*150*	*150*	*150*	*195*
E1	*152.5*	*182.5*	*182.5*	*202.5*	*232.5*	*130*	*130*	*130*	*130*	*130*	*130*	*190*
E2						*110*	*110*	*110*	*110*	*110*	*110*	*150*
F1	*45*	*60*	*60*	*80*	*100*	*155*	*165*	*165*	*175*	*175*	*175*	*225*
F2	*60*	*75*	*75*	*100*	*120*							
G	*5.5*	*5.5*	*5.5*	*5.5*	*5.5*	*Ø12*	*Ø12*	*Ø12*	*Ø12*	*Ø12*	*Ø12*	*Ø12*
H	*1*	*1.5*	*1.5.*	*1.5*	*2*	*2*	*2*	*2*	*3*	*3*	*3*	*3*
I	*25*	*39*	*39*	*45*	*51*	*58*	*58*	*58*	*65*	*65*	*110*	*100*
J	*M5*	*M6*	*M6*	*M8*	*M10*	*M10*	*M10*	*M10*	*M12*	*M12*	*M12*	*M16*
S											*43*	*35*
T											*26*	*35*
U						*70*	*70*	*70*	*70*	*70*	*70*	*100*
U1									*45*	*45*	*45*	*61*
U2									*35*	*35*	*35*	*34*
V						*20*	*25*	*25*	*40*	*40*	*60*	*70*
W						*5*	*6*	*8*	*8*	*8*	*10*	*15*
X						*15*	*15*	*15*	*20*	*20*	*17*	*20*
Y						*58*	*58*	*58*	*65*	*65*	*110*	*100*
Z						*Ø9*	*Ø10.5*	*Ø10.5*	*Ø14*	*Ø14*	*Ø14*	*Ø14*

Connectors Cross Sections

	25A	50A	100A	150A
Solid Wire	16mm^2	35mm^2	50mm^2	95mm^2
Flex wire	10mm^2	25mm^2	50mm^2	95mm^2
AWG type wire	AWG 6	AWG 2	AWG 1/0	AWG 4/0
Recommended torque	1.5-1.8 NM	4.0-4.5 NM	7-8 NM	17-20 NM

Typical Insertion Loss

Frequency (MHz)	0.15	0.5	1	10	30
Common Mode in dB	65	75	55	45	40
Differential Mode in dB	65	70	50	35	30