

High Performance DC EMC/EMI filter 直流高性能滤波器



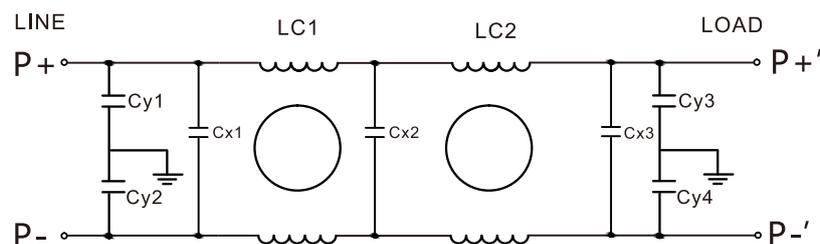
Product Profile 产品简述

- Excellent common mode and differential mode filtering effect, effective filtering range 5KHz ~ 30MHz
- Suitable for environments and equipment with particularly harsh electromagnetic interference
- Can effectively solve the conduction interference of DC power supply equipment
- Rated current: 3 ~ 1600A optional
- 优异的共模、差模滤波效果，有效滤波范围 5KHz ~ 30MHz
- 适用于电磁干扰特别恶劣的环境和设备
- 可有效解决直流供电设备的传导干扰
- 额定电流：3 ~ 1600A 可选

Product Parameters 产品参数

Rated Voltage/Rated Current:	3 ~ 150A, 250VDC	额定电压/额定电流:	3 ~ 150A, 250VDC
	200 ~ 1600A, 1000VDC		200 ~ 1600A, 1000VDC
Test Voltage (1 minute):	3 ~ 150A, P+P-: 1000VDC, 1min; P+/P-_E: 1000VDC, 1min	测试电压:	3 ~ 150A, P+P-: 1000VDC, 1min; P+/P-_E: 1000VDC, 1min
	200 ~ 1600A, P+P-: : 2500VDC, 1min; P+/P- _E: 2500VDC, 1min		200 ~ 1600A, P+P-: : 2500VDC, 1min; P+/P- _E: 2500VDC, 1min
Range of Temperature:	-25°C ~ 85°C	温度范围:	-25°C ~ 85°C
Insulation Resistance:	P+/P-_E, 500VDC, ≥500MΩ	绝缘电阻:	P+/P-_E, 500VDC, ≥500MΩ
Design corresponding to:	EN 133200, IEC/EN60939, GB/T15288-94 GB7343-1987, GB/T14472(IEC384-14)	执行标准:	EN 133200, IEC/EN60939, GB/T15288-94 GB7343-1987, GB/T14472(IEC384-14)

Electrical Diagram 电气原理图



Product Size 产品尺寸图

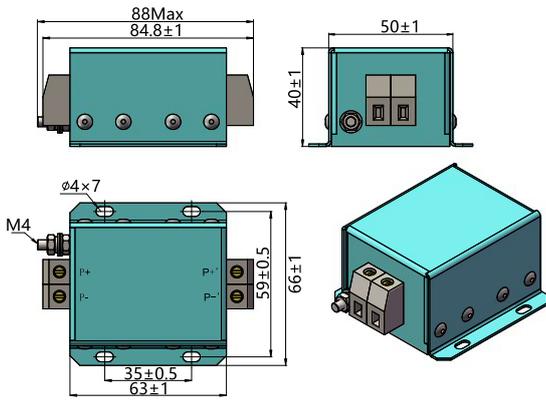


Fig. A

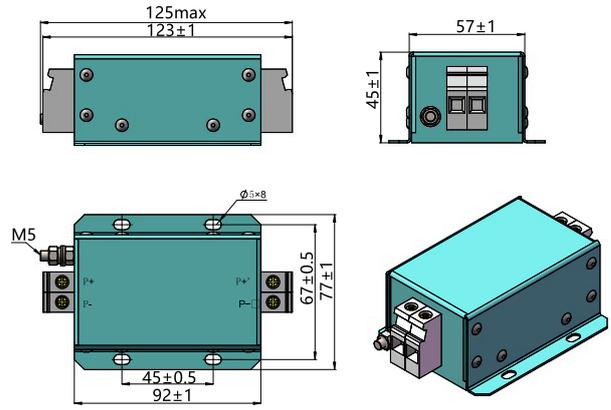


Fig. B

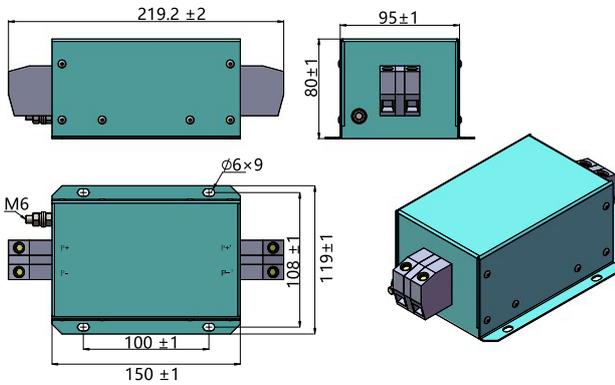


Fig. C

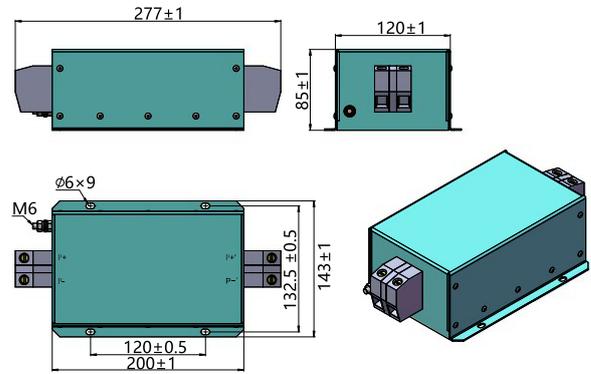


Fig. D

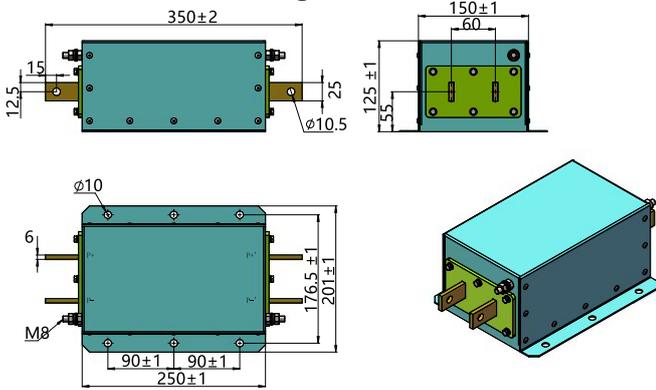


Fig. E

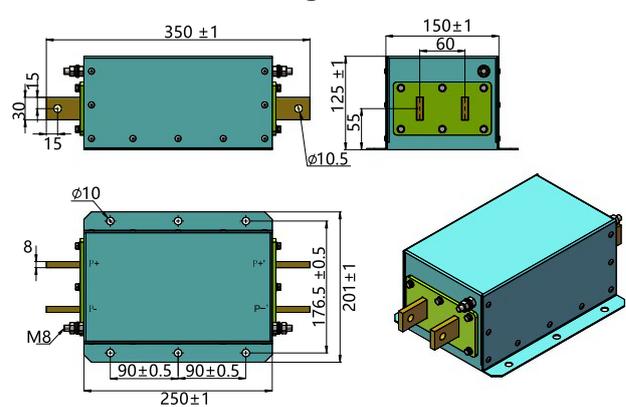


Fig. F

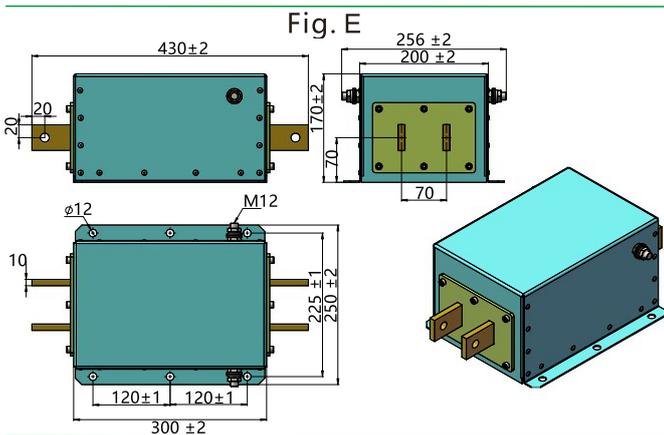


Fig. G

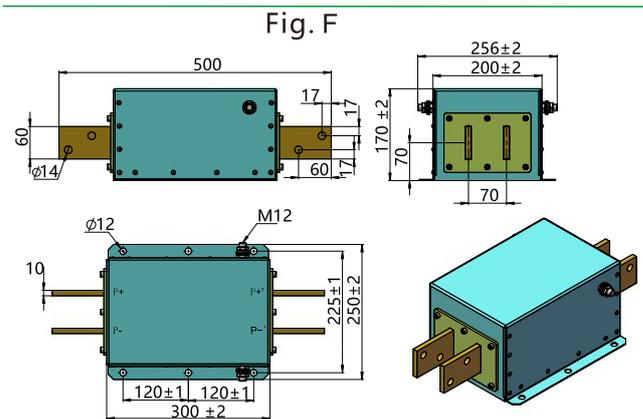


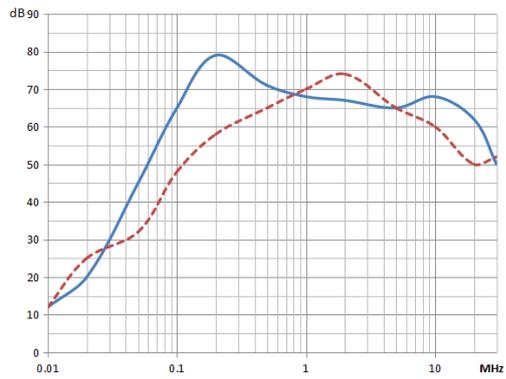
Fig. H

Selection Table

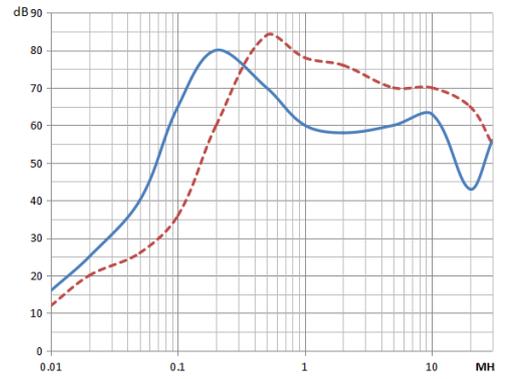
Type	Rated Current (A)	Mechanical Diagram	Leakage Current 泄漏电流 ≤ mA	Wire Range	Weight (kg)
SKS-DFG-0003/2-T	3	A	/	30-10AWG	0.3
SKS-DFG-0005/2-T	5	A	/	30-10AWG	0.3
SKS-DFG-0010/2-T	10	A	/	30-10AWG	0.3
SKS-DFG-0015/2-T	15	B	/	24-8AWG	0.5
SKS-DFG-0020/2-T	20	B	/	24-8AWG	0.5
SKS-DFG-0025/2-T	25	B	/	24-8AWG	0.5
SKS-DFG-0030/2-T	30	C	/	24-4AWG	2.8
SKS-SFD-0040/2-T	40	C	/	24-4AWG	2.8
SKS-DFG-0050/2-T	50	C	/	24-4AWG	2.8
SKS-DFG-0060/2-T	60	C	/	24-4AWG	2.8
SKS-DFG-0080/2-T	80	D	/	8-2AWG	4.2
SKS-DFG-0100/2-T	100	D	/	8-2AWG	4.2
SKS-DFG-0120/2-T	120	D	/	8-2AWG	4.2
SKS-DFG-0150/2-T	150	D	/	8-2AWG	4.2
SKS-DFG-0200/10-C	200	E	/	/	15
SKS-DFG-0300/10-C	300	E	/	/	15
SKS-DFG-0400/10-C	400	E	/	/	15
SKS-DFG-0500/10-C	500	F	/	/	16.5
SKS-DFG-0600/10-C	600	F	1.6	/	16.5
SKS-DFG-0800/10-C	800	G	1.6	/	20
SKS-DFG-1000/10-C	1000	G	1.6	/	20
SKS-DFG-1200/10-C	1200	G	1.6	/	20
SKS-DFG-1300/10-C	1300	H	1.6	/	24
SKS-DFG-1500/10-C	1500	H	1.6	/	24

Insertion Loss

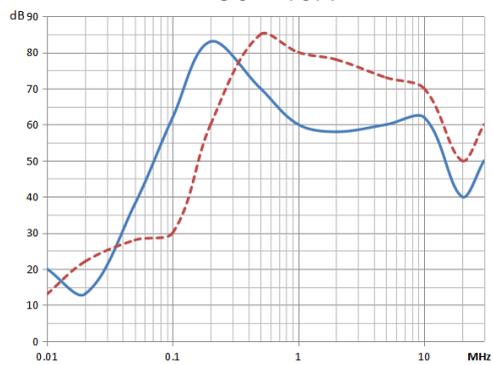
5~10A



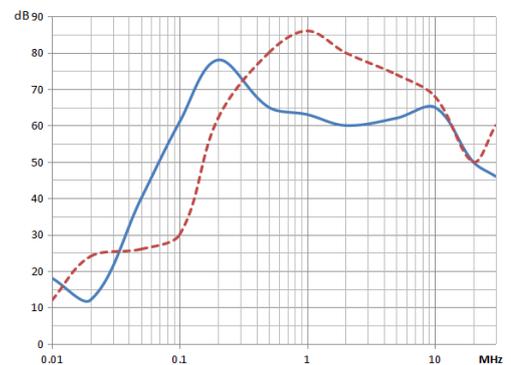
15~25A



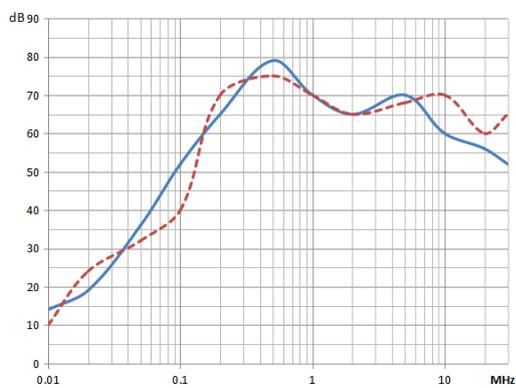
30~40A



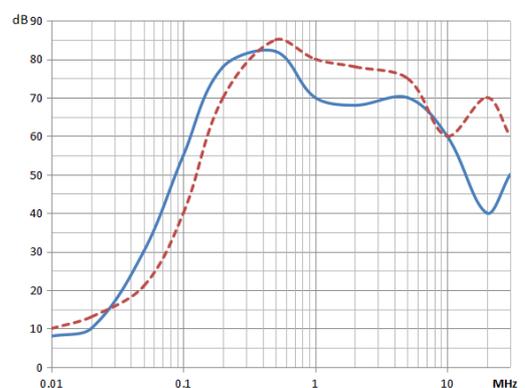
50A



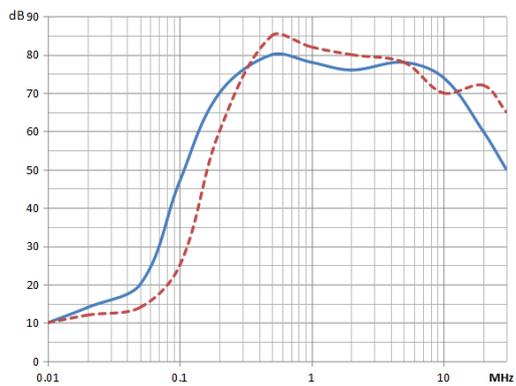
60A



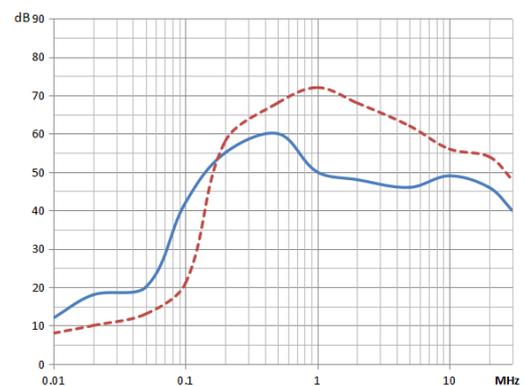
80A



100~120A

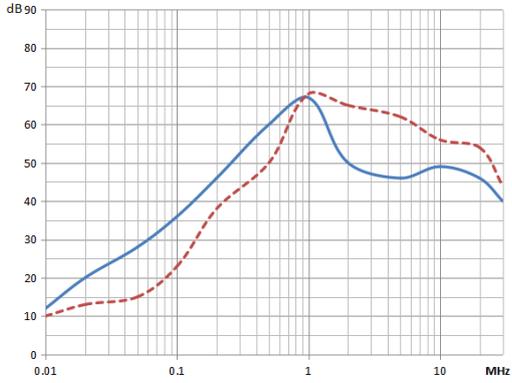


150A

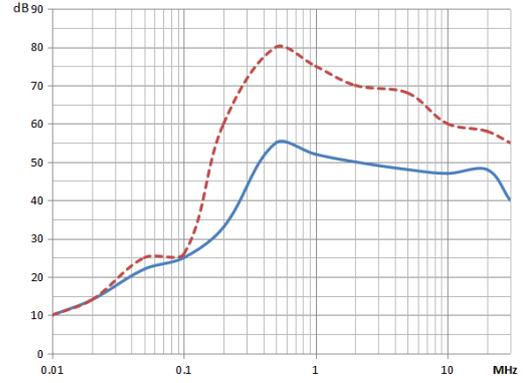


Insertion Loss

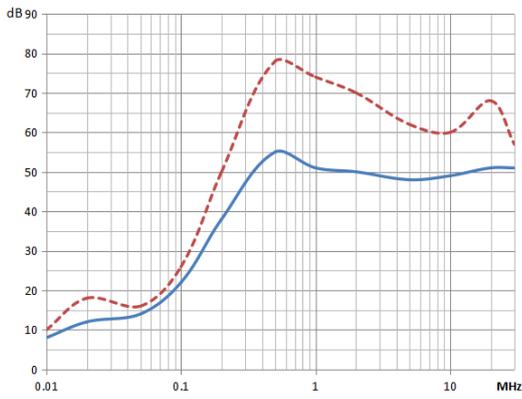
200~400A



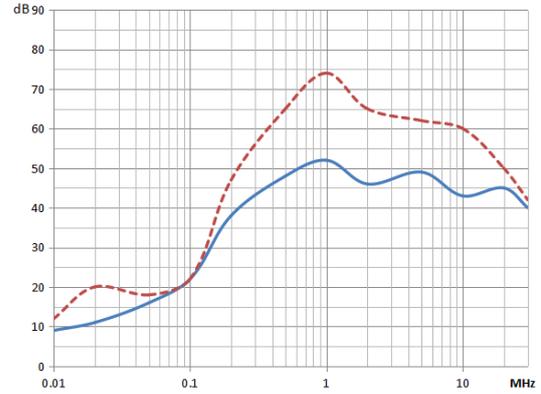
500~600A



800~1200A



1300~1600A



Common Mode ———
Differential Mode - - - -

*注：插入损耗根据IEC/CISPR17，在空载50Ω—50Ω测试系统下测得，最终效果以在实际工作状态下数据为准。

Note: The insertion loss is measured by IEC/CISPR 17 under the no-load 50Ω-50Ω test system. The final effect is based on the actual working condition data.

■ Installation Tips

- 滤波器应安装在电源线入口处，减少辐射干扰。
 - 滤波器接地必须良好，即滤波器外壳与机箱安装面导电接触，低阻抗连接。
 - 与滤波器连接的输入、输出端导线应拉开距离，不能用线扎捆扎在一起，避免耦合而旁路了滤波器，造成滤波器滤波性能下降。
 - 滤波器接地端子接地时，接地线应尽可能短。
 - 滤波器接线端子为螺栓时，应使用两把扳手，一把扳手固定住根部螺母，另一把拧紧或松动螺母外侧螺母，否则可能导致端子损坏。
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- The filter should be installed at the entrance of the power cord to reduce radiation interference.
 - The filter must be well grounded, that is, the filter housing is in conductive contact with the mounting surface of the chassis and connected with low impedance.
 - The input and output wires connected to the filter should be separated from each other and cannot be bundled together to avoid coupling and bypass the filter, which will reduce the filter performance.
 - When the filter ground terminal is grounded, the ground wire should be as short as possible.
 - When the filter terminal is a bolt, you should use two wrenches, one wrench to fix the root nut, and the other to tighten or loosen the outer nut of the nut, otherwise the terminal may be damaged.

■ Matters Needing Attention

- 滤波器有漏电流，建议大于50A滤波器通过接地端子良好接地。
 - 滤波器内有储能器件，建议断电后一分钟内勿操作，防止触电。
 - 大电流滤波器长时间工作，表面温度较高，请勿触碰壳体表面，防止烫伤。
 - 滤波器工作条件应符合商标的技术标准，长时间超压或过载会导致滤波器寿命缩短或损坏。
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- The filter has leakage current. It is recommended that the filter larger than 50A be well grounded through the ground terminal.
 - There are energy storage devices in the filter, it is recommended not to operate within one minute after power off to prevent electric shock.
 - The high current filter works for a long time and the surface temperature is high. Please do not touch the surface of the shell to prevent burns.
 - The working conditions of the filter should comply with the technical standards of the trademark. Long-term overvoltage or overload will cause the filter life to be shortened or damaged.