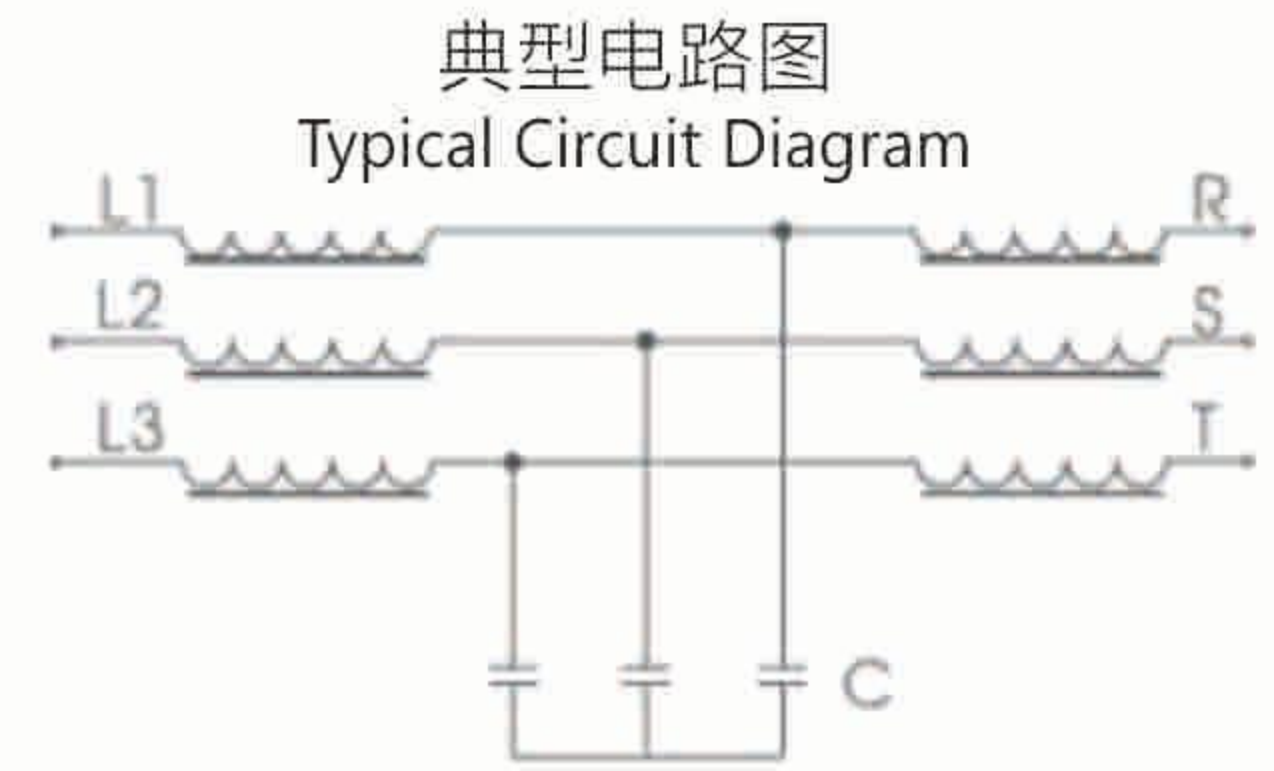


## LCL滤波器(LCR) LCL Filter

### ■ 产品概述(Product Introduction)

LCL滤波器在现代的可再生能源行业应用十分普遍，可以有效提高电网电能质量。滤波器用于过滤逆变器的开关频率。达到目标畸变水平时，滤波器将节约可观的成本。LCL滤波器的典型特点是损耗小、体积小、重量轻。

LCL filters are very widely used in the modern renewable energy industry, and can efficiently power quality of the electrical network. The filters are used to filter the switching frequency of the inverter. When reaching the target distortion level, the filters can save considerable costs. LCL filters are typically characterized by small loss, small size, light weight.



### ■ 产品特点 (Product Feature)

功率半导体开关器件技术的进步，促进了电力电子变流装置技术的迅速发展，出现了以脉宽调制(PWM)控制为基础的各类变流装置，比如逆变电源，变频器等各类变流器，并且这些变流器已经在全国的各个领域中得到了广泛的应用。三相电压型PWM整流器具有电能双向传输，较快的动态控制响应。当前的PWM整流器采用的功率开关器件多是IGBT,就可以实现很高的开关频率，一般开关频率为2 ~ 15kHz。然而功率开关器件的高开关断频率却会产生高次谐波，注入到电网中，产生谐波污染。为了解决所碰到的难题，我们一般选择LCL滤波器。LCL滤波器可以选取较小的电感电容值，在千瓦至上百千瓦间实现满意的滤波效果。

The advancement of power semiconductor switching device technology has promoted the rapid development of power electronic converter device technology. Various converter devices based on pulse width modulation (PWM) control have emerged, such as inverter power supplies, converters, etc. converters, and these converters have been widely used in various fields across the country. The three-phase voltage PWM rectifier has bidirectional power transmission and faster dynamic control response. Most of the power switching devices used in PWM rectifiers are IGBTs, which can achieve very high switching frequencies. Generally, the switching frequency is 2 ~ 15kHz. However, the high switching frequency of power switching devices will generate high-order harmonics, which will be injected into the power grid, causing harmonic pollution. In order to solve the problems, we generally choose LCL filters. The LCL filter can select smaller inductor and capacitance values to achieve satisfactory filtering effects from kilowatts to hundreds of kilowatts.

额定电流范围 Rated Current Range: 10 ~ 1600A  
额定电压范围 Rated Voltage Range: 220 ~ 1140V

### ■ 成品识别码(Product Identification Code)

LCR	250	0.4SC
LCL 波滤波 LCL Filter	额定电流 Rated Current	0.4: Rated Voltage 0.2=220V,0.4=380V,0.7=690V,1.1 = 1140V D: Single Phase S: Three Phase C: Copper A: Aluminum
对应CE 认证的型号Corresponding CE code:		
LOR	690SC	0500F/H
LCL 波滤波 LCL Filter	690: 额定电压 Rated Voltage, 1~5000V S: Three Phase C: Copper L: Aluminum	0500: 额定电流 Rated Current, 0.1~5000A