

# Neutral current Eliminator(NCE)

## Features

- Diverts the flow of harmonic current away from neutral and upstream transformer
- Reduce high neutral current and neutral-ground voltage
- Reduce loss and operating temperature in upstream transformer
- Save energy by reducing harmonic losses and improve power factor
- Prevent hidden dangers caused by harmonics
- Easy installation, high reliable and maintenance free

## Applications

- Big commercial LED monitor, LED lights
- Commercial and office buildings
- Data center, shopping malls
- Industrial factories
- Any places that have high neutral current issues addressed by harmonics



## Overview

Due to wide use of non-linear loads such as computer, variable speed drives, UPS system, energy saving lamps etc, and massive 3rd harmonics is being produced. The harmonics not only pollutes the network, making power quality worse but also affects the normal function of sensitive electronic equipment. Besides, 3rd harmonic is zero sequence harmonic, which would superimpose on the neutral line, and eventually have over current risk, it will pose potential safety hazard to equipment and transmission lines and easily cause fire disaster.

The Neutral Current Eliminator(NCE) consists of harmonic excluder which have special magnetic circuit structure and its aid-part, it can effectively eliminate 3rd harmonics and reduce input and output neutral current to 0 A.

## Models & Specifications

Model	Max Working Current	Working Voltage	Efficiency	Insulation Class	Insulation Resistance
DFC-CW-60A	60A	380V ± 30%, or can be custom designed	100%, reduce neutral line current to 0A, 3rd harmonic reduction ≥90%	Class H or C	≥20MΩ
DFC-CW-90A	90A				
DFC-CW-150A	150A				
DFC-CW-200A	200A				
DFC-CW-300A	300A				
DFC-CW-400A	400A				
DFC-CW-500A	500A				
DFC-CW-600A	600A				
DFC-CW-800A	800A				
DFC-CW-1000A	1000A				