

# OCC-APF

## Active Power Filter

Eliminate harmonic and reactive current

[www.onecyclecontrol.com](http://www.onecyclecontrol.com)



### BENEFITS

- Hardware enabled control
  - Ultrafast, precise, and stable
- High efficiency
  - Energy saving
- Simple user interface
  - Low maintenance & low service
- Modular plug & play architecture
  - Scalable
- Long life design
  - Low logistics & installation cost
- Light weight minimum raw material usage
  - Environmentally friendly
- Small size
  - Space saving
- ETL listed
  - Safe and high quality
- California government sponsored and award winning
  - Highly competitive

### FEATURES

- ✓ One-Cycle Control Technology
- ✓ Reduce current harmonics to < 5%
- ✓ Correct power factor to ~ 0.99
- ✓ Lower apparent power by ~ 20%
- ✓ Efficiency > 97%
- ✓ Leading light weight < 29 kg (65 lbs)
- ✓ Leading power density ~ 20 W/inch<sup>3</sup> to 30 W/inch<sup>3</sup>
- ✓ 400Hz or variable frequency by custom order
- ✓ Single unit 40kW or 60kW, scalable to MW

### OVERVIEW

OCC-APF leverages unique patented technology invented at Caltech & University of California and developed by the world leading power electronic experts under partial sponsorship of California Energy Commission and California Institute for Energy & Environment. OCC-APF is the first hardware-enabled 3-phase Active Power Filter with high reliability, stable dynamics, and simple user interface, enabling harmonics cancellation and power factor correction in real-time.

### APPLICATIONS

- Eliminate harmonic pollution to protect equipment and transformers and extend equipment life
- Correct power factor avoid penalty
- Free up reactive occupied capacity and reduce transformer loading



	APF3050A6480/XXXXIR	APF3050A5380/XXXXIR	APF3100A6208/XXXXIR
	APF3075A6480/XXXXIR	APF3075A5380/XXXXIR	
<b>Electrical Specification</b>			
<b>AC Phase / Wires</b>	3 phase / 3 wires		
<b>AC Freq Range (Hz)</b>	57 - 63	47 - 53	57 - 63
<b>AC Voltage Range (V, rms) Line-to-Line</b>	400 - 552	320 - 440	175 - 240
<b>Max AC Current (A, rms)</b>	75 / 50		100
<b>Efficiency @ Full Power</b>	>98.3% / >97%		>97%
<b>AC Current THD @ Full Power</b>	5%		
<b>Power Factor @ Full Power</b>	0.99		
<b>Mechanical Specifications</b>			
<b>Weight kg (lb)</b>	29 (65)		
<b>Size (L x W x H) cm (inch)</b>	58 x 45 x 13 (23 x 17.5 x 5.25)		
<b>Environment Specifications</b>			
<b>Operating Temp. (°C)</b>	0 to 40		
<b>Operating Relative Humidity w/o Condensation</b>	0 - 95%		
<b>Storage Temp. (°C)</b>	-10 to 55		
<b>Audible Noise (dBA) @ 1m (3ft)</b>	< 80		
<b>Safety</b>			
<b>UL 508C</b>	ETL Listed		

