



Purchasing your Aerovox Capacitor cells from

ARCO today...

Visit Aerovox Corporation at [Aerovox.com](http://Aerovox.com)

### General

Standard reactive compensation capacitors are available from Aerovox in the following product categories:

AMPO - Vacuum-impregnated metallized polypropylene, compact size.

MMPO - Vacuum-impregnated metallized polypropylene, rugged welded case. Available standard ratings at 60 Hertz for each respective category are shown in Table 1.

Please consult the factory for other voltages and KVAR ratings.

### Low Voltage

	<b>AMPO</b>	<b>MMPO</b>
240 Vac	0.5 - 10	20 - 30
480 Vac	0.5 - 25	25 - 100
600 Vac	1.0 - 25	25 - 100
750 Vac	50 - 100	

### Medium Voltage

	<b>MMPO</b>
900 Vac	50 - 100
1040 Vac	25 - 200
1200 Vac	25 - 200
2400 Vac	25 - 200
2770 Vac	25 - 200
4160 Vac	25 - 200
4800 Vac	25 - 200

**Table 1: Standard Voltage and KVAR Ratings  
Harmonic Distortion**

Harmonic distortion is the resulting non-sinusoidal current waveform generated by a non-linear load. The most common non-linear load is a pulse rectifier, which is used in most switch mode power supplies, variable speed drives and uninterruptible power supplies. The distorted current waveform generates a distorted source voltage due to the system (electrical power system) impedance. A distorted waveform can be analyzed by decomposing it into a fundamental component (line frequency) and higher frequency components of varying amplitude. The effects of harmonic distortion on metallized film capacitors are (1) higher operating temperature because of higher  $I^2R$  losses, and (2) higher voltage stress on the dielectric. Both of these factors will shorten the life of a capacitor dramatically. All Aerovox Power Factor Correction capacitors are designed to handle harmonic currents, however, Aerovox also offers capacitors that are custom designed for systems with high harmonic distortion. By using our high-harmonic capacitors in your harmonic rich application, you will have a more robust construction compared to using standard capacitors in the same application.

Part Numbering System

AMPO 012 5 F 3 3 S

1 2 3 4 5 6 7

1 Capacitor cell type: AMPO or MMPO

2 Whole KVAR (3 digits)

3 KVAR in tenths (omit if n/a)

4 Voltage Code (line to line), see table 2

5 Number of Phases

6 Number of Terminals

7 Optional factory codes, if applicable

Ex: AMP00125F33S

AMPO, 12.5 KVAR, 480Vac, 3-Phase, 3-Terminal, S-studs

Standard High

Harmonics Harmonics

Vac Code Vac Code

240 D 480 C

480 F 600 I

600 H

750 Z

900 O

1040 B

1200 W

2400 J

2770 K

4160 L

4800 M

**Table 2: Standard Voltage Codes  
Construction**

All Aerovox Power Factor Capacitors are impregnated with a dielectric fluid to give added insulation, excellent corona protection and a moisture barrier. The dielectric fluid is considered a green (benign), environmentally friendly material. All capacitors are 100% leak tested. Aerovox products **do not** contain PCBs.