

AF CB **CP** CS CV HD HS R SL WE XE XL

## SPECIFICATIONS (See notes 1 and 2)

**Loudspeaker Type:** 2-way, Full-range, bass ported  
**Operating Range:** 70 Hz - 18 kHz, 70 Hz - 18 kHz (+/-5dB)  
**Max Input (Passive):** 200W continuous, 500W program  
 40 volts RMS, 89 volts momentary peak

**Recommended Power Amp:** 420W to 600W @ 8 Ohms

### Max Inputs (Biamp):

LF: (Same as for Passive mode)

Recommended LF Power Amp: (Same as for Passive mode)

HF: 50W continuous, 125W program

20 volts RMS, 45 volts momentary peak

Recommended HF Power Amp: 100W to 150W @ 8 Ohms

### Sensitivity 1W/1m :

99 dB SPL (70 Hz - 18 kHz 1/3 octave bands)

97 dB SPL (250 Hz - 4 kHz speech range)

**Maximum Output:** 122 dB SPL / 129 dB SPL (peak)

**Nominal Impedance (passive):** 8 Ohms

**Min Impedance:** 5.6 Ohms @ 180 Hz

**Nominal Impedances (Biamp):** LF: 8 Ohms, HF: 8 Ohms

### Nominal -6dB Beamwidth:

55° H (+3° / -13°, 2 kHz - 10 kHz)

40° V (+7° / -6°, 2 kHz - 10 kHz)

**Axial Q / DI:** 32.8 / 15.2, 2 kHz - 10 kHz

**Crossover Frequency:** 2 kHz

**Recommended Signal Processing:** 60 Hz high pass filter

**Drivers:** LF (1) 12", Ferrofluid-cooled

HF (1) 1" exit, titanium diaphragm

**Driver Protection:** PowerSense™ DDP

**Input Connection:** (5) terminal barrier strip

**Controls:** Passive / Biamp switch, 3 position HF level switch

**Enclosure:** 13-ply 18 mm Baltic birch, Tuf-Coat™ finish (see options)

**Enclosure Hardware:** None

### Mounting / Rigging Provisions:

(6) 3/8-16 rigging points, W.L.L. 150 lb. vertical pull each

(4) 5/16-18 wall/ceiling bracket attachment points

**Grille:** 16 gauge perforated steel, black powder coated (see options)

**Required Accessories:** None

**Supplied Accessories:** None

**Optional Accessories:** 3/8EYBLTKIT: (4) 3/8-16 forged eyebolts

### Dimensions:

Height: 23.9 in. / 608 mm

Width (front): 14.7 in. / 373 mm

Width (rear): 9.2 in. / 234 mm

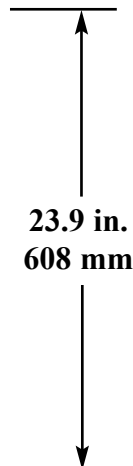
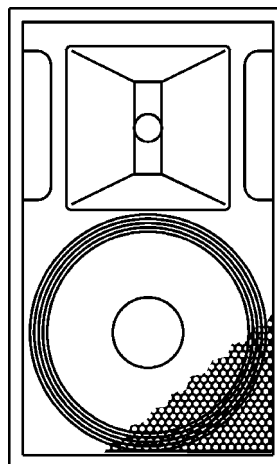
Depth: 14.75 in. / 375 mm

**Weight:** 53.5 lb. / 24.3 kg

**Shipping Weight:** 57 lb. / 25.9 kg

**1. Sensitivity:** Free field pink noise measurement at 20 feet (6.1m) at 25% power; extrapolated to 1 meter and an input of 2.83 volts RMS.

**2. Watts:** All wattage figures are calculated using the rated nominal impedance.



## APPLICATIONS:

- Theatres / Auditoria
- Houses of Worship
- Sport Facilities
- Health Clubs
- Clubs
- A/V Systems

## FEATURES:

- Black, White Tuf-Coat™, or Unfinished Exterior
- 1" Titanium HF with 3 Position Level Switch
- 60° H x 40° V Rotatable Horn Pattern
- Passive and Biamp Operating Modes
- PowerSense™ DDP (Dynamic Driver Protection)
- Small Profile Trapezoidal Enclosure For Tight Spaces
- Load-rated 3/8" Rigging Points
- No Handles for Clean Appearance
- Barrier Strip Input on Steel Input Panel

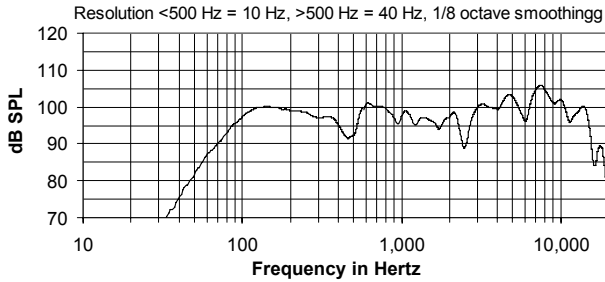
## DESCRIPTION

The CPL42 is a small and versatile, two-way full-range bass reflex loudspeaker system engineered for installation in theaters, houses of worship and corporate applications. CPL systems may be ordered to match your specific applications. There is a choice of two HF horns for the CPL42. The 90 x 40 (CPL42-94) and the 60 x 40 (CPL42-64) horns are both rotatable for narrower horizontal coverage or for vertical mounting. CPL systems may be ordered with a variety of Tuf-Coat™ finishes - black, with a black perforated steel grille, white with removable white grille cloth covering the grille, and unfinished wood, with removable brown grille cloth covering the metal grille. Five year limited warranty.

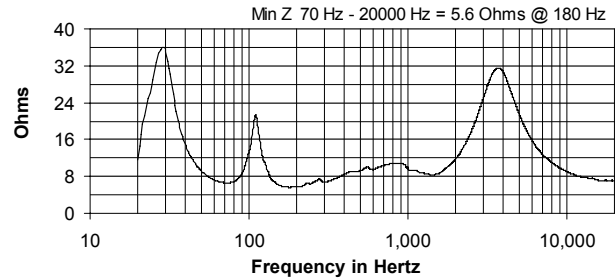
### OPTIONS:

CPL42-64B = black Tuf-Coat™ finish,  
 CPL42-64W = white Tuf-Coat™ finish,  
 CPL42-64U = unfinished ready to paint or stain  
 Grille: white has white cloth covering,  
 unfinished has brown cloth covering

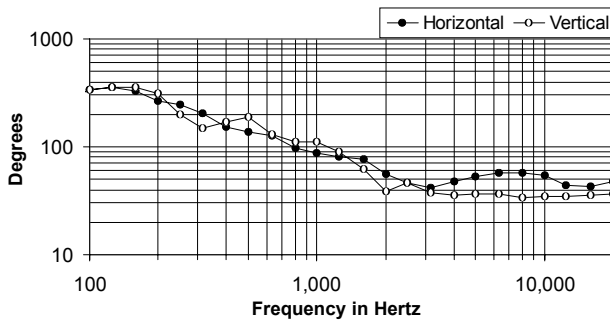
## FREQUENCY RESPONSE



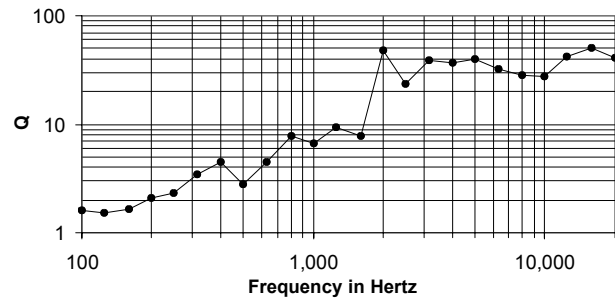
## IMPEDANCE



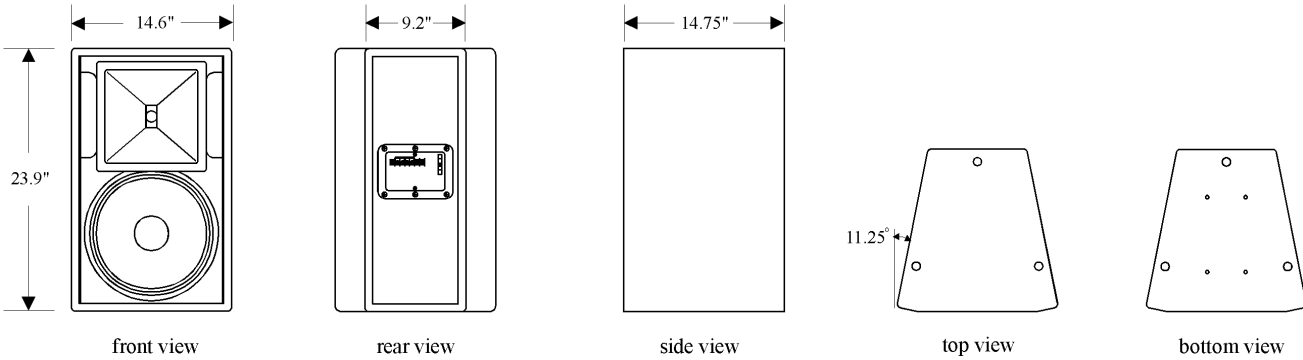
## BEAMWIDTH



## AXIAL Q



## DIMENSIONS



## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The loudspeaker system shall be a two-way, full-range bass reflex trapezoidal design with one 12 in. Ferrofluid-cooled woofer and one 1 in. exit HF driver with a titanium diaphragm mounted to a 60° HF fiberglass horn. Drivers shall be connected to an integral crossover with a crossover frequency of 2 kHz and integral over-current protection circuitry using high positive current coefficient resistors. There shall be one five-terminal barrier strip input connector with built-in jumpers for bi-amplified connection. The loudspeaker enclosure shall be 13-ply Baltic birch plywood with a 16 gauge perforated steel grille {with a white {brown} cloth cover} and {unfinished.} finished with black Tuf-Coat™ {white} finish. The system shall have an amplitude response of 70 Hz to 18 kHz (+/- 5 dB), input capability of 40V RMS, 99 dB sensitivity at one meter and 2.83V / 8 ohms nominal impedance. The nominal dispersion shall be 55°H x 40°V from 2 kHz to 10 kHz. The loudspeaker shall be 23.9 in. (608 mm) H x 14.7 in. (373 mm) W (front) x 9.2 in. (234 mm) W (rear) x 14.75 in. (375 mm) D and weigh 53.5 lbs (24.3 kg)..