

## Overview

**Thank you!** for purchasing our **PowerBRIDGE**.

The PowerBRIDGE from Clef Audio is the perfect solution for those who require a cost effective way to remove mains noise and distribute power efficiently. Although affordable but our core values have not been compromised, each unit features surge protection and our proprietary **POLARIS FILTER** and **ZX-FILTER** technology, reducing products talking to each other via the main supply. The unit is simple to install. A dedicated Ground post allows for the grounding of other sensitive electronics within the system. For those who seek increased performance or would later upgraded, the PowerBRIDGE design is flexible to use with High-End quality receptacle ie. **FURUTECH** and etc.

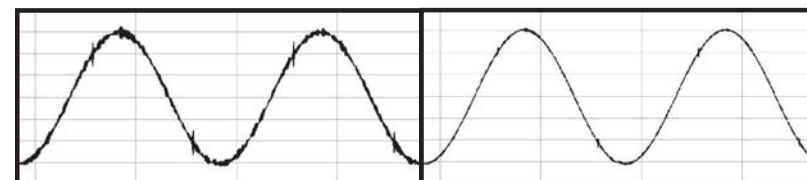
## Features

1. **AC Filter Outputs** with High quality US Duplex receptacles.
2. **Solid Aluminum Shell** to prevent the unit from EMI, RFI.
3. **Thermal Breaker** to prevent the unit from over current or short circuit. Build in Lamp to show on/off status of the unit
4. **IEC Inlet** connect to AC cord.
5. **Ground Post** for connecting to other electronics system.

## Technology

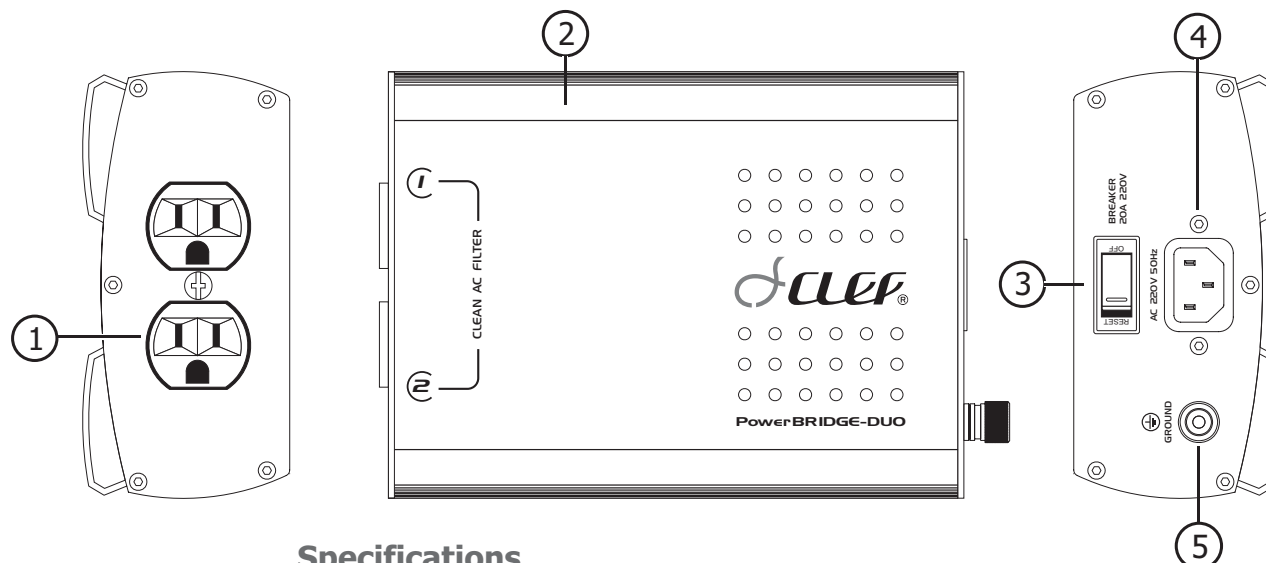
1. **Polaris Technology**, this is Clef proprietary filter technology which is different from common filter design. The common filter design usually filters only high and very high frequency. Polaris filter in PowerBRIDGE is designed to work from 10KHz upward which is the frequency band that affects the sound and video quality. Polaris filter can reduce the noise in AC line over **95%** of total noise so the improvement of sound and picture quality can be clearly detected.
2. **ZX (Zero-Cross) Technology**, each duplex has the special filter circuit to reduce the interference generated by equipment plugged into duplexes from one duplex to the other duplex. This to ensure the purity and cleanness of the AC line delivered to equipment.
3. **Star Wiring Technic**, this is special technique which totally separate the wiring to each duplex. This will reduce the crosstalk between duplex and increase maximum current delivered the equipment. The PowerBRIDGE can deliver full power to high power equipment e.g. power amplifier, receiver and powered subwoofer without the limit in current capacity as found in common power distributor design.

## AC Line wave form



Before

After with **Polaris** and **ZX** Filter



## Specifications

|                                |                                         |
|--------------------------------|-----------------------------------------|
| <b>Current rating:</b>         | 15 amps                                 |
| <b>Operating Voltage:</b>      | 190 to 250 VAC                          |
| <b>Spike Protection Modes:</b> | L-N, N-G, L-G, zero ground leakage      |
| <b>Spike Clamping Voltage:</b> | 800 Vpk @ 3,000 amps, 250 VAC RMS       |
| <b>Response time:</b>          | 1 nanosecond                            |
| <b>Maximum surge current:</b>  | 13,000 amps (8 x 20 mS pulse)           |
| <b>Maximum spike energy:</b>   | 380 Joules per mode, 1,140 Joules total |
| <b>Noise attenuation:</b>      | >10 dB @ 10 kHz                         |
|                                | >46 dB @ 100 kHz                        |
|                                | >100 dB @ 1-10 MHZ                      |