

# VOSS AUDIO FOUR-CHANNEL AMPLIFIER PFC-415



## PRODUCT DESCRIPTION:

The **PFC Ultra-High Power Series Amplifier** adopts the latest **multi-loop feedback Class-D amplifier technology**. The power supply utilizes **STMicroelectronics active power factor correction (PFC) chip** and **PWM soft-switching technology**, optimized for **audio power amplification**. This ensures **continuous, powerful performance** and **comprehensive protection functions**, providing **exceptional technical specifications and high stability**. The series features **lightweight design, high efficiency, energy-saving operation, low heat dissipation, high reliability, ample power output, outstanding sound quality, and strong driving capability**, making it ideal for **various performance and entertainment venues**.

## PRODUCT FEATURES:

1. **High efficiency and energy saving**, reducing operational costs.
2. **Compact, lightweight, and robust structure**.
3. **Compliant with safety regulations and electromagnetic compatibility standards**.
4. **Wide voltage range support (100–240VAC)**.
5. **Utilizes high-end components from top international manufacturers**, ensuring premium quality.
6. **Temperature-controlled fan** for quiet operation.
7. **Modular design**, making maintenance easy.
8. **2-channel design**, ideal for mobile performances.
9. **Rigorously tested for reliability, environmental adaptability, and user experience**, ensuring smooth and enjoyable operation.

## PRODUCT FUNCTIONS:

1. Three operational modes: **Stereo, Parallel, and Bridged**.
2. **Four selectable gain levels**.

3. **Output limiter switch.**
4. **XLR balanced input.**
5. **Temperature power control, over-temperature indication, and over-temperature protection.**
6. **Overload power control**, ensuring uninterrupted sound output.
7. **DC output protection** for amplifiers.
8. **Undervoltage protection** for power supply.
9. **Limiter and fault indicators.**

## RATED SPECIFICATIONS

1. **Rated Power:**
  - **8Ω Stereo:**  $4 \times 1500\text{W}$
  - **4Ω Stereo:**  $4 \times 2550\text{W}$
  - **16Ω Bridged:**  $2 \times 3000\text{W}$
  - **8Ω Bridged:**  $2 \times 5100\text{W}$
2. **RMS Output Voltage (THD = 1%, 1kHz):** 109.5V
3. **Input Sensitivity (Rated Output Power, 1kHz):** Selectable: 41dB, 38dB, 35dB, 32dB
4. **THD+N:** Typical Value: 0.01% (10% Rated Output Power, 1kHz, 8Ω)
5. **Crosstalk Suppression:**  $\geq 90\text{dB}$  (Below Rated Power, 20Hz-1kHz, 8Ω)
6. **Frequency Response:** Typical Value: +0dB, -0.5dB (10% Rated Output Power, 20Hz-20kHz, 8Ω)
7. **Input Impedance:**
  - **Balanced:** 20kΩ
  - **Unbalanced:** 10kΩ
8. **Damping Factor:** Typical Value: 5000 (20Hz-200Hz, 8Ω)
9. **Signal-to-Noise Ratio:**  $\geq 105\text{dB}$  (A-weighted, 20Hz-20kHz, 8Ω)
10. **Power Requirements:** 100~240VAC, 50/60Hz
11. **Protection Features:**
  - Under-voltage protection
  - DC output protection
  - Overheat protection
  - Temperature power control
  - Overload power control
12. **Dimensions (WxHxD):** 483 × 45 × 370mm
13. **Net Weight:** 9kg