



# WPER-42000EN

POWER AMPLIFIER  
4X500W-100V

EN  
54-16

## Technical Specifications

- Max. 4X500W Watt Output Power
- 70-100V
- Compact Design
- Dimensions: 482x420x44mm(1U)
- Circuit Protect
- Power Supply: 220V



## Product Information:

### Overview

Engineered to deliver exceptional performance and reliability, our 4X500W Watt Power Amplifier is designed for critical safety and public address applications. With its EN54-16 certification, this amplifier meets the rigorous standards required for fire alarm and evacuation systems, ensuring dependable operation when it matters most.

### Key Features

**High-Power Output:** 4-channel design offers 500 watts per channel, providing clear, powerful sound for large venues or emergency situations.

**EN54-16 Certification:** Fully compliant with EN54-16 standards, guaranteeing safety and performance in alarm systems.

**Robust Construction:** Built with high-quality components and durable materials to ensure long-term reliability and minimal maintenance.

**Versatile Integration:** Easily integrates with existing systems for public address, emergency communication, or background music while maintaining crystal-clear audio output.

**Advanced Thermal Management:** Designed with efficient cooling technology to optimize performance and extend lifespan, even under continuous operation.

**User-Friendly Interface:** Intuitive controls and clear feedback mechanisms simplify installation and operation, making it suitable for both professional installers and facility managers.

## Certification:



## Additional Inputs:



## Voltage:



## System Specification:

|                        |                        |           |  |
|------------------------|------------------------|-----------|--|
| RMS/AES power handling | 100 V                  |           | 4x500W                                 |
| Frequency              | Response ( $\pm 3$ dB) |           | 20 Hz - 20 kHz                         |
| Signal / Noise         |                        |           | > 90 dB                                |
| THD+N (@ 1 kHz)        |                        |           | < 0.05%                                |
| Technology             |                        |           | Class A-B                              |
| Inputs                 | Balanced Mic./Line     | Type      | 2 x Balanced Microphone and Line Input |
| Power                  | Supply                 | Operating | 100 ~ 240 V AC / 50 ~ 60 Hz            |
|                        |                        |           | 1 x 70/100V (Bridged)                  |

## Product Features:

|              |  |                          |
|--------------|--|--------------------------|
| Dimensions   |  | 482x420x44mm (W x H x D) |
| Weight       |  | 10 kg                    |
| Mounting     |  | 1U                       |
| Construction |  | Steel                    |

## Architects' and Engineers' Specification:

### Applications

Fire alarm and evacuation systems

Public address systems in educational institutions, hospitals, and transportation hubs

Emergency communication networks in large-scale venues

Industrial facilities requiring reliable, high-power audio distribution

### Technical Specifications

Power Output: 4X500 Watts

Compliance: EN54-16 certified for fire alarm and emergency systems

Frequency Response: Optimized for speech intelligibility and public address clarity

Connectivity: Multiple input and output options for flexible integration

Operating Temperature: Designed to perform in various environmental conditions

Protection Features: Overload, thermal, and short-circuit protection to safeguard both equipment and users

### Conclusion

The 4X500 Watt EN54-16 Certified Power Amplifier stands as a robust and reliable solution for a wide range of critical audio applications. Whether for emergency communication systems or high-performance public address installations, this amplifier delivers unmatched power, safety, and quality. Experience the perfect balance of technology and trust with a product designed to keep environments safe and connected.



## Declaration of Conformity

We: **Owner of the brand Wöller**

Declare that the following product(s):

**Brand:** WÖLLER  
**Model:** WPER-42000EN Power Amplifier

The object described above is in accordance with the relevant Union harmonization legislation:

- (1) The requirements of the Electromagnetic Compatibility Directive (EMC) 2014/30/EU
- (2) The requirements of the Low Voltage Directive (LVD) 2014/35/EU
- (3) The requirements of the Restrictions of Hazardous Substances Directive (RoHS3) 2015/863
- (4) The requirements of Registration, Evaluation and Authorization of Chemicals (REACH) regulation 1907/2006

in accordance with the standards listed below:

- (1) EN 55032:2015  
EN 55035:2017  
EN 61000-3-2:2014  
EN 61000-3-3:2013
- (2) EN 62368-1:2014+A11:2017  
IEC 62368-1:2014(ed.2)

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Yasin Ozdemir, Manager

A handwritten signature in black ink, appearing to read 'Y. Ozdemir', with a horizontal line drawn through it.

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26/01/2021(EMC) & 26/01/2021(LVD)