



# Elevate your soundscape with SYNSONA

Powerful, resource-efficient and versatile audio amplification for small to mid-sized installations

**SYNSONA** is a new product family of compact power amplifiers designed to deliver superior sound quality and control for a wide range of commercial installations. Ideal for background music and public announcements, **SYNSONA** amplifiers provide a powerful system drive for any small to medium-sized installation scenario – a perfect choice for supermarkets, retail stores, educational institutions, hospitality areas and more.

Building on more than 70 years of Bosch audio engineering excellence, **SYNSONA** power amplifiers are a go-to for anyone looking for an exceptionally versatile, robust and user-friendly amplifier that's quick to install and runs trouble-free – even under demanding power conditions.

## SYNSONA family



PRM-2P600 two-channel power amplifier



PRM-4P600 four-channel power amplifier

Invented for life



**BOSCH**

## Features

- **powerTANK** capacity of 600 watts. powerTANK technology provides next-level flexibility to suit your installation, working like a power reservoir to deliver asymmetric power to each amplifier channel.
- Variable Load Drive (**VLD**) provides the same power into 4 Ω, 8 Ω, 70 V or 100 V
- Overall power consumption can be significantly reduced by **ecoRAIL** technology and **APD** (auto power down) while always maintaining highest performance.
- **dualCOOL** provides convection cooling with an additional intelligent fan in case of extreme thermal conditions

### PRM-4P600

The PRM-4P600 is a 600-watt four-channel amplifier with powerTANK technology that flexibly delivers the total power over its four channels. The PRM-4P600's durable enclosure occupies only 1RU of rack space and requires minimal ventilation space. Designed as a convection-cooled power amplifier, the device operates silently, making it also suitable for quiet environments. A complete package of protection circuitry with sophisticated limiters protects the amplifier and the connected loudspeakers from damage.

### PRM-2P600

The PRM-2P600 two-channel amplifier combines the same features and Bosch technologies found as its four-channel sibling model. At just a single rack unit high and half a rack width wide, the PRM-2P600 presents a multitude of installation options wherever space is limited. The included brackets facilitate single or dual rack-mounting, as well as unobtrusive installation in tighter spaces, such as under counters. When rack-mounted side by side, two amplifiers fit in a single rack unit, efficiently utilizing space and doubling the channel count and output power.

## Technical specifications

	PRM-4P600				PRM-2P600			
<b>Electrical</b>								
Total rated output power <sup>1</sup>	600 W							
Number of channels	4				2			
Rated output power <sup>1</sup>	4 x 150 W				2 x 300 W			
Output power:	4 Ω	8 Ω	70 V	100 V	4 Ω	8 Ω	70 V	100 V
<ul style="list-style-type: none"> <li>■ Maximum output power per channel (power sharing)</li> </ul>	500 W	600 W	500 W	600 W	500 W	600 W	500 W	600 W
<b>Amplifier</b>	4 Ω	8 Ω	70 V	100 V	4 Ω	8 Ω	70 V	100 V
Nominal Gain (+6 dBu input sensitivity, LEVEL 0 dB)	24.0 dB	27.0 dB	33.2 dB	36.2 dB	27.0 dB	30.0 dB	33.2 dB	36.2 dB
Signal to Noise Ratio (A-weighted, ref. to rated output power, LEVEL 0 dB)	> -98 dB	> 100 dB	> 101 dB	> 103 dB	> -100 dB	> 102 dB	> 101 dB	> 103 dB
THD+N (1/8 rated output power, 1 kHz)	< 0.1 %							
<b>Connectivity</b>								
Type	2 x 6-pin Euroblock, 3.81 mm, male, parallel 1x RJ45 (AES72-1E)				1 x 6-pin Euroblock, 3.81 mm, male, parallel 1x RJ45 (AES72-1E)			
Loudspeaker output	2 x 4-pin Euroblock, 5.08 mm, female							
Control port type	1 x 5-pin Euroblock, 3.81 mm, male							
<b>General</b>								
Signal processing	Input Routing, Filter (24 dB/Oct.), Hi-pass 30/50/100/150 Hz, Lo-pass 150 Hz, Peak Limiter							
Power requirements	100 V to 240 V, 50 Hz to 60 Hz AC							
Power consumption:								
<ul style="list-style-type: none"> <li>■ Idle mode (ecoRAIL with no input signal)</li> </ul>	< 20 W				< 12 W			
<ul style="list-style-type: none"> <li>■ Consumption at 1/8 rated output power</li> </ul>	115 W							
<ul style="list-style-type: none"> <li>■ Standby mode (APD active)</li> </ul>	< 1 W							
Protections	Audio limiters, high temperature, DC, HF, short circuit, back-EMF, peak current limiters, inrush current limiters, mains over/under voltage protection							

1) Test signal for max. output power according IHF-A-202 (Dynamic-Headroom, burst 1 kHz / 20 ms on / 480 ms off / low level -20 dB)

## Bosch Security and Safety Systems

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