

7005

4-channel high-performance power amplifier



- ✓ RENTAL
- ✓ INSTALLATIONS



Features

- Class D with active distortion compensation
 - No need to use Zobel chains, and since the feedback is taken directly from the output, distortion and non-linearities are corrected, which are included in the signal
- The most accurate sound reproduction account of less deep feedback
 - Switching power supply with active power factor corrector (PFC), so the efficiency can reach 96%
- No noticeable thermal distortion when playing low frequencies
 - The power supply is based on an LLC resonant half-bridge converter topology. Rectangular structures typical of capacitor circuits are converted into sine waves, greatly improving efficiency
- Full control of the speaker cone due to extremely low output impedance

Compatibility

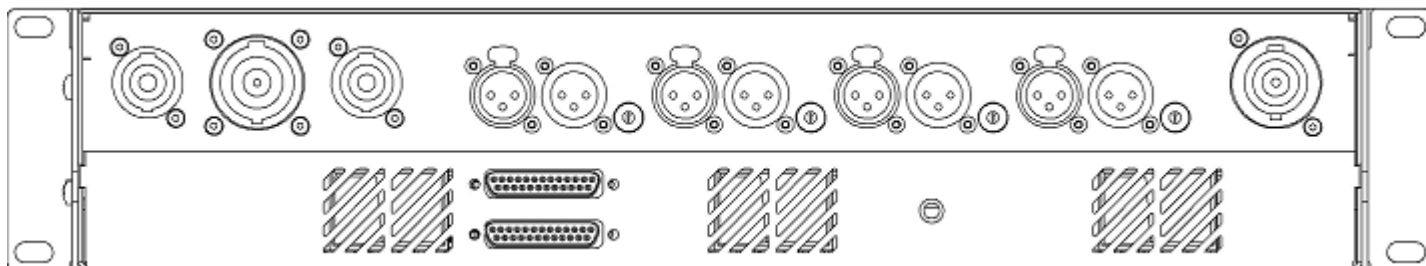
- Line arrays
- Full Range Speakers
- Subwoofers

Application

- Stadiums and Sports Arenas
- Amusement parks
- Open air events
- Concert Halls & Clubs
- Theme parks
- Bars and Restaurants
- City parks and squares
- Malls and shops
- Educational institutions

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Specifications

Number of output channels	4
Maximum output voltage per channel	141V
Maximum output current per channel	60A
Circuit design	Class D with active distortion compensation

Output power according CEA-2006 / 490A (1% THD, 1 kHz)

	2,66 Ohm	4 Ohm	8 Ohm	16 Ohm
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One channel RMS (Maximum Sinusoidal Power)	3500 W	2800 W	1400 W	700 W
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Sound characteristics

THD + N at 1 kHz and 1 dB below clipping	<0,05%
Signal-to-noise ratio	>112 dB
Damping factor (4 hms, 20Hz - 20kHz)	>500
Frequency response (1W, 8 Ohms)	20Hz - 20kHz (+/- 0,5 dB)

Gain

Gain	37 dB
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Rear panel interfaces

Input connector	3-pin XLR, balanced
Output connector	SpeakON 8-pin - 1pcs SpeakON 4-pin - 2pcs.
Cooling	Three fans, rear airflow, with temperature control speed

Mains power

Operating voltage, V 220 V 16A	140 - 250V (50-60Hz)
Maximum power consumption	3600 W

Weight and dimensions

Dimensions (WxHxD)	482x88x443 mm
Weight	15 kg

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Technology Description

The ProTone 7005 amplifier has a user configurable voltage peak limiting (VPL) function.

VPL allows you to set the correct output peak power for optimal performance with connected speakers.

VPL settings are made using a rotary 9-band switch on the rear panel.

The table provides information on the resulting output power at typical loads with available VPL settings.

Output power values (Peak) corresponding to VPL settings

VPL		Power (Peak) at load		
Position	Value	4 Ohm	8 Ohm	16 Ohm
0	Off	5488 W	2744 W	1372 W
1	141 V	4970 W	2485 W	1243 W
2	106 V	2809 W	1405 W	702 W
3	86 V	1849 W	925 W	462 W
4	73 V	1332 W	666 W	333 W
5	62 V	961 W	481 W	240 W
6	54 V	729 W	365 W	182 W
7	48 V	576 W	288 W	144 W
8	43 V	462 W	231 W	116 W
9	39 V	380 W	190 W	95 W

Output power values (RMS) corresponding to VPL settings

VPL		Power (RMS) at load		
Position	Value	4 Ohm	8 Ohm	16 Ohm
0	Off.	2800 W	1400 W	700 W
1	141 V	2500 W	1250 W	625 W
2	106 V	1413 W	706 W	353 W
3	86 V	930 W	465 W	233 W
4	73 V	670 W	335 W	168 W
5	62 V	483 W	242 W	121 W
6	54 V	367 W	183 W	92 W
7	48 V	290 W	145 W	72 W
8	43 V	233 W	116 W	58 W
9	39 V	191 W	96 W	48 W