ZEUS 1120CA

1-Channel 120W Multipurpose Power Amplifier

Helvia Zeus CA series is designed for the world of small-medium commercial audio systems, both on 70V or 100V constant voltage lines, and low-impedance lines from 4 to 16 ohm. It offers 1, 2 and 4 channels Class-D amplifiers with 120W, 240W and 350W RMS powers.
Each channel is independent and equipped with its own line transformer, therefore it is possible to choose between 70/100V or 4-16 ohm low-impedance for each of them, offering maximum versatility according to the specific needs of each zone.
Each channel is equipped, in addition to volume, Led VU-meter and clip indicator, with gain adjustment on the rear panel. There is also an HPF filter with a cut-off frequency at 400Hz.
Both inputs and outputs are balanced with XLR connectors; all power outs are with Phoenix (Europlug) connection. The versions with 1 and 2 channels are also equipped with DC 24V auxiliary power input for any emergency purposes.
Helvia paid high attention to safety, reliability and duration over time of these amplifiers. Each channel is equipped with muting system at power on, signal limiter, thermal protection and current limitation. The cooling system with fan speed controlled by internal temperature, is also reinforced thanks to the 19” 2U Rack standard size that increases the thermal dissipation.
The quality is not only based on the accurate selection of active and passive components, but also on the quality of raw materials used for line transformers, and in the use of digital processing to offer stability, reliability and high-level sound performance.







PRODUCT DETAILS

Key features

1 channel, 120W
70V – 100V and 4-16ohm operation
2 Unit 19” Rack Standard for maximum heat dissipation
High-quality components for maximum reliability
24VDC Auxiliary Power Supply for EMC purposes
Full protection system including signal limiter, thermal protection, and current limiting
Variable-speed fans for quiet and efficient cooling

Specifications

100V RMS Output Power	120W
70V RMS Output Power	120W
4-16Ω RMS Output Power	120W @ 4Ω
Input Sensitivity	1V/Gain max @ 0.775V
Input Impedance	20KΩ ±10%
HPF Filter	ON = 400Hz-20kHz; OFF = 80-20kHz
Frequency response	80-20kHz/ 400Hz-20kHz
THD (1W @ 1KHZ)	< 0.05%
Damping Factor	>300 @ 100 Hz
Crosstalk	70dB
S/N Ratio	85dB
Amplifier Class	Class D
Power Requirements	AC 230V/DC24V
Power Consumption (Average/Peak)	150W
Input Connectors	3-Pin Female XLR
Output Connectors	5-Pin Phoenix
Ch Output Connectors	3-Pin Male XLR
Cooling	Temperature controlled fan
Dimension (WxDxH)	484x400x88 mm (19.0 x 15.7 x 3.5 in)
Rack Mount	2x 19" Rack Units
Packing Size (WxDxH)	550 x 500 x 170 mm (21.6 x 19.7 x 6.7 in)
Net Weight	6,7 kg (14.8 lbs.)
Gross Weight	8,3 kg (18.3 lbs.)