

Yenisei D 1.25



Description

The ENISEY D1.25 amplifier is designed to amplify the nominal level signal of 0.775V (0dB) coming from the sound program source to the level of 240V (50dB) at nominal load.

The amplifier is made in the form of a monoblock, 4U high, which allows you to place the amplifier in a standard 19" rack cabinet.

The amplifier has an additional balanced microphone input and an unbalanced line input. The inputs have their own level control and forced shutdown.

The output of the amplifier is transformer, symmetrical, having 8 galvanically isolated windings, protected by fusible links, each with a voltage of 30V, which makes it possible to obtain a voltage of 30, 60, 120 and 240V at the output of the amplifier with appropriate switching of the output windings.

The power supply of the amplifier is carried out from a single-phase AC network with a voltage of 220V, 50Hz, with mandatory grounding.

The amplifier has a protection system, including: protection against overheating, monitoring the health of low-voltage power supplies, protection against overloads at the input and output, which ensures the amplifier's performance when the load resistance drops to zero, protection against "surge" - the power supply of the 220V electrical network goes to the output amplifier, which allows it to operate in difficult conditions.

Application

Wired broadcasting networks
As part of civil defense and emergency warning systems

Sports venues
Malls

As part of radio broadcasting systems on the streets, in parks and city squares

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Specifications

Parameter name	Specification Norm	
	Rated value	Limit
Rated output voltage	240 V	± 12 V
Rated input voltage corresponding to the rated output	0,775 V	± 0,04 V
Rated output power when operating on an active load 92.16 Ohm	1250 W	±125 W
Bandwidth transmitted frequencies	50-10000 Hz	-
Permissible deviations of the amplitude-frequency characteristic (AFC), relative to the frequency of 1000 Hz, max, at frequencies:		
- 25 Hz	-10,5 dB	±4,5 dB
- from 25 Hz to 75 Hz inclusive	-2,5 dB	±1,5 dB
- over 75 Hz up to and including 100 Hz	-1 dB	±1,0 dB
- over 100 Hz up to and including 6600 Hz	±0,6 dB	-
- over 6600 Hz up to and including 10000 Hz	1/-1,5 dB	-
- 20000 Hz	-9 dB	±3,0 dB
Harmonic coefficient, max:		
- at input voltage levels from minus 20 dB to the nominal value, at frequencies:		
- up to 100 Hz	4.0 %	-
- from 100 Hz to 200 Hz inclusive	3.0 %	-
- over 200 Hz	2.0 %	-
- when the input signal level is 12 dB above the nominal value at a frequency of 1000 Hz	2.0 %	-
Protection from unweighted noise, max:	60 dB	-
Increasing the output voltage level when the load is turned off, max:		
- within the frequency range from 50 Hz to 6000 Hz inclusive	3.0 dB	-
- over 6000 Hz	4.0 dB	-
Output voltage at load resistance two times lower than the nominal value, max	120 V	-
An increase in the output signal level when a voltage is applied to the input 4 times higher than the nominal, max	0.5 dB	-
Amplifier impedance module at the input intended for connecting the line		
- input 1	600 Ohm	±60 Ohm
- input 2	1200 Ohm	±120 Ohm
Output voltage at complex load with phase angle ±45 degrees, not less than:		
- at Kg 125 Hz, not more than	168 V	-
- at Kg 2000 Hz, not more than	3%	-
	5%	-
Power consumed from AC network with rated voltage 220 V, 50 Hz, not more than:		
- in nominal mode	1100 W	-
- with an output voltage equal to 0.3 of the nominal	200 W	-
Dimensions and Weight		
- height	177 mm	-
- width	482 mm	-
- depth	445 mm	-
- weight	30 kg	-