

Yenisei D 0.625



CLASS
D

SINGLE-PHASE
POWER SUPPLY
220V

Description

- The ENISEY D0.625 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.

Applications

- 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

Yenisei D 0.625

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	625 W	±62,5 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	-