

Yenisei TDI 2000



Description

Yenisey TDI 2000 broadcast amplifier is designed to amplify the power of the sound signal from the program source of nominal 0.775V up to 240V (50dB) at rated load, also possible to operate the amplifier with an output voltage of 120V.

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 transformer output of the amplifier is designed to match the output of the amplifier module with the load and generates output voltages of 120V or 240V depending on how the output windings are connected.

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

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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	2000 W	±200 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: - from 25 Hz to 75 Hz inclusive - over 75 Hz up to and including 100 Hz - over 100 Hz up to and including 6600 Hz - over 6600 Hz up to and including 10000 Hz	-2,5 dB -1 dB ±0,6 dB 1	±1,5 dB ±1,0 dB - -
Harmonic coefficient, max: - at input voltage levels from minus 20 dB to the nominal value, at frequencies: - up to 100 Hz - from 100 Hz to 200 Hz inclusive - over 200 Hz - when the input signal level is 12 dB above the nominal value at a frequency of 1000 Hz	4.0 % 3.0 % 2.0 % 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 - over 6000 Hz	3.0 dB 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	600 Ohm	±60 Ohm
Output voltage at complex load with phase angle ±45 degrees, not less than: - at Kg 125 Hz, not more than - at Kg 2000 Hz, not more than	168 V 3% 2%	- - -
Power consumed from AC network with rated voltage 220 V, 50 Hz, not more than: - in nominal mode - with an output voltage equal to 0.3 of the nominal	3000 W 550 W	- -
Dimensions and Weight - height - width - depth - weight	176 mm 482 mm 488 mm 30 kg	- - - -