TDA-500 Dual-channel amplifier TDA-500

ARMT.665230.139



TDA-500 digital amplifiers are used in the industrial public address systems DCN and IPN manufactured by Armtel for signal output to 100 V public address lines. The amplifiers are equipped with one or two amplifier channels, with class D output stage and transformer isolation, having the efficiency over 85%. The built-in protection against overvoltage, short-circuit, idle running and overheat, as well as the availability of stand-by supply input for the amplifiers improve reliability of the public address system based on these amplifiers

Key features:

- Steel enclosure of 2U height for installation in 19" cabinet;
- Main supply from 127/220 V DC network, the stand-by supply input of 48-68 V;
- Automatic switch to the stand-by supply with the main supply power-off;
- Symmetrical LF-inputs with transformer galvanic isolation;
- lower heat emission, with the efficiency over 85%;

- LED indicators of signals and operation modes;
- Volume controls, high and low frequency tone controls;
- Built-in control circuit for soft line power-on;
- Built-in protection circuit against overload and overheat.

Technical specific	cations			
Parameter		Measurement conditions for TDA-500	In dual- channel mode	In single- channel mode
Power (RMS – Rated Maximum Sinusoidal) (at 230V ~power supply)		40 Ohm/100 V	2x250 W	1x500 W 200 Ohm/100 V
Nominal DC power supply		48 V DC	2x240 W	1x480 W
Non-liner distortion factor+ noise		1 KHz 200 W	0,29 %	
Frequency range		-3 dB	90 Hz-20 kHz	
Input sensitivity		70 Hz-20 KHz	1V eff.	
Input impedance		1 kHz	10 kOhm	
Signal-noise ration		1 kHz, 250 W; volume 0,5	85	
Electronic-balanced inputs		One input for each channel (it is possible to connect both inputs, if necessary)		
Additional output conta	acts			
Start-up current		230 V AC	11 A with the time of thermistor restore of 70 seconds	
Consumption power	In stand-by mode	48 V DC	0,10 A	0,10 A
	In stand-by mode	230 V AC	0,058 A	0,058 A
Without signal	2 active channels	48 V DC	0,25 A	0,25 A
Without signal	2 active channels	230 V AC	0,14 A	0,14 A
Full load	Sinusoidal signal	48 V DC	12,5 A	12,5 A
Full load	Sinusoidal signal	230 V AC, 100 V, 40 Ohm	3,1 A	3,1 A
Operational specification	ons			
Air temperature range		From -5°C to +40°C		
Relative air humidity		From 5 to 95 %		
Size		19" 2U (482x88x256)		
Weight		16,5 kg		