TG7300

Power Amplifier

☐150W ☐300W ☐500W

Feature and Benefits

Self-check is available
Auto/Manual mode
The monitor can be muted automatically to eliminate audio return while the microphone is used to broadcast
As it receives the emergency signal, the power amplifier can automatically adjust audio to preset position not controlled by the volume potentiometer, eliminating the influence of human operation
Automatically switching between the main power and the standby power
Fault uploading
Over heat protection
Providing 24VDC off-set for local audio output line and line-checking module
Communicate with TG7100 Broadcast Control Panel through RS485

Overview

TG7300 Series Power Amplifier is an important part of emergency broadcast system, including TG7300（150W）, TG7301（300W） andTG7302（500W）.
TG7300 Series Power Amplifier is a new-generation product designed by Tanda complying with national standard GB16806-2006 Automatic Control System for Fire Protection (containing Modification No.1). It can carry out emergency broadcast together with TG7100 Broadcast Control panel and loudspeakers.

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Technical Specification

Compliance	GB 16806-2006(containing Modification No.1)
The Main Power	220VAC（187V~242V）50Hz
Standby Power	220VAC（187V~242V）50Hz
Local Address	1~10（binary code, no repeated codes）
Input Level	775mV
Stable Voltage Output	120v
Frequency Response	80Hz～8KHz（90V～145V）
Harmonic Distortion	≤5%
Noise Level	＜37mV
Dimension	483.0mm×330.0mm×88.5mm
Weight	6.5kg
Operating Temperature	-10° C to +40° C
Humidity	≤95% Relative Humidity, Non condensing

Structure

Front Panel

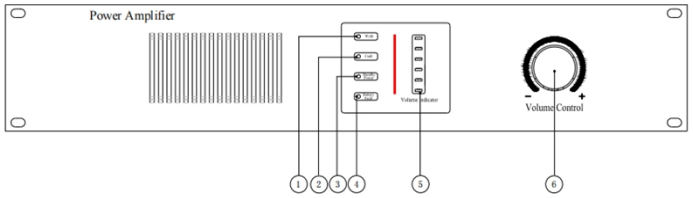
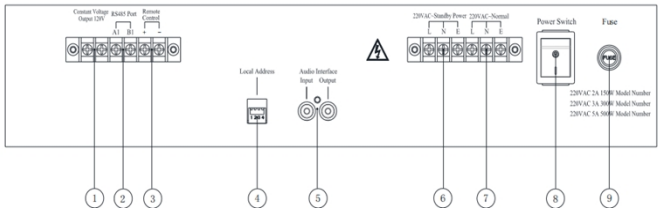


Fig. 1-2

1 Work LED
2 Fault LED
3 BAT LED
4 BAT Fault LED
5 Volume LED
6 Volume Control



Back panel

1 Audio Output
2 RS485
3 Remote Control
4 Local Address
5 Audio Port
6 Batteries
7 Main Power
8 Switch
9 Fuse

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Wiring

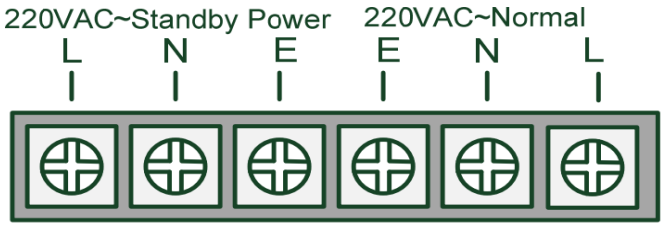

Fig. 4-1

220VAC~Standby Power ： L,N and E are live wire, zero input and earth end of 220VAC standby power respectively.
220VAC~Normal：L,N and E are live wire, zero input and earth end of 220VAC main power respectively.

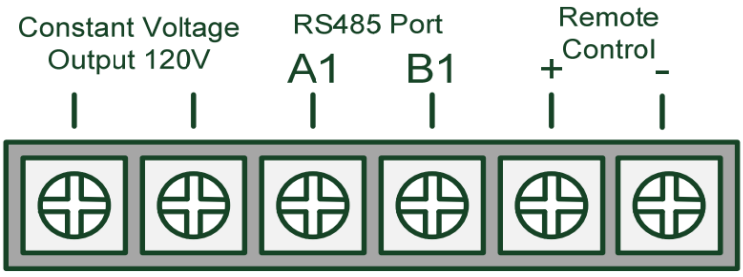

Fig. 4-2

Constant Voltage Output 120V：Audio output of the power amplifier
485 port A1, B1：Connect to the communication terminal of TG7100 Broadcast Control Panel
Remote Control+, - ： （polarized, “+” for “+” and “-” for “-”） 24VDC input, receive association signals from other devices. Connecting to 24VDC, the power amplifier is started automatically to enter in working state. At the same time, audio output is not controlled by the volume potentiometer. As there is no 24VDC signal, the power amplifier can be started by power switch and audio output can be adjusted by the volume potentiometer.

Note：“Remote +,-”：Polarized. The positive pole is connected to 24V_OUT positive pole of TG7100 Broadcast Control Panel. The negative pole is connected to 24V_OUT negative pole of TG7100 Broadcast Control panel. “A1,B1 of RS485”：A1 is connected to A1 of RS485 of TG7100 Broadcast Control Panel. “B1” is connected to B1 of 24V_OUT of TG7100 Broadcast Control Panel.

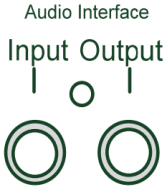

Fig. 4-3

Audio interface：RCA audio port. “Input” connects to “Audio Output” of TG7100 Broadcast Control panel；“Output” connects to “Audio Input” of the next power amplifier.