

SAP-5402A50

2×500Watt 8Ohm Professional Amplifier

SPON 2*500Watt 8Ohm professional power amplifier suitable for scenarios such as conference rooms, lecture halls, auditoriums, sports fields, command centers, and more.

Multiple Protection | PFC Power Supply | 5W standby power | 90% Efficiency

MAIN FEATURES

▲ Design And Efficiency

- Sleek Chassis: 1U slim chassis with a modern, minimalist design.
- Low Standby Power: Consumes as little as 5W in standby mode, achieving up to 90% operational efficiency and minimizing power waste.

▲ Signal Processing And Protection Features

- Peak Level Limiting: Built-in limiter prevents speaker damage from clipped signals.
- Overheat Control: Automatic signal compression in high-temperature conditions prevents shutdown and ensures stable operation.
- Comprehensive Protection: Includes soft start, DC, high-frequency, overvoltage, undervoltage, overload, short circuit, compression limit, and overheating protection for excellent compatibility.

▲ Circuit Design And Performance Optimization

- Surge Protection: Lightning surge protection exceeds EMI standards for enhanced reliability.
- Global Compatibility: Universal PFC power supply suits global use with minimal grid interference.
- Intelligent Heat Dissipation: Smart regulation balances heat and fan noise, ensuring efficient cooling at full power output.

▲ Maintenance And Protection Measures

- Fuse Box Design: External fuse box with built-in spares simplifies maintenance and ensures equipment protection.

SPECIFICATION

POWER PARAMETERS

Power Supply:	AC 220V, 50Hz
Rated Output:	STEREO: 2*500W@8Ohm STEREO: 2*1000W@4Ohm BTL:1000W×1@16Ω BTL:1800W×1@8Ω
Power Consumption:	180W(@1/8 Power Output, 8Ohm ,1kHz) 430W(@1/3 Power Output, 8Ohm ,1kHz)

AUDIO PARAMETERS

S/N (Signal-To-Noise) Ratio:	≥100dB
THD (Total Harmonic Distortion):	≤0.05% At 1kHz, 1/3 Rated Output
Frequency Response:	20Hz~20kHz
Input Impedance:	Balanced 20KΩ/ Unbalanced 10KΩ
Input Sensitivity:	0.775Vrms/1.414Vrms
Max Input Level:	3.5Vrms(13dBu)

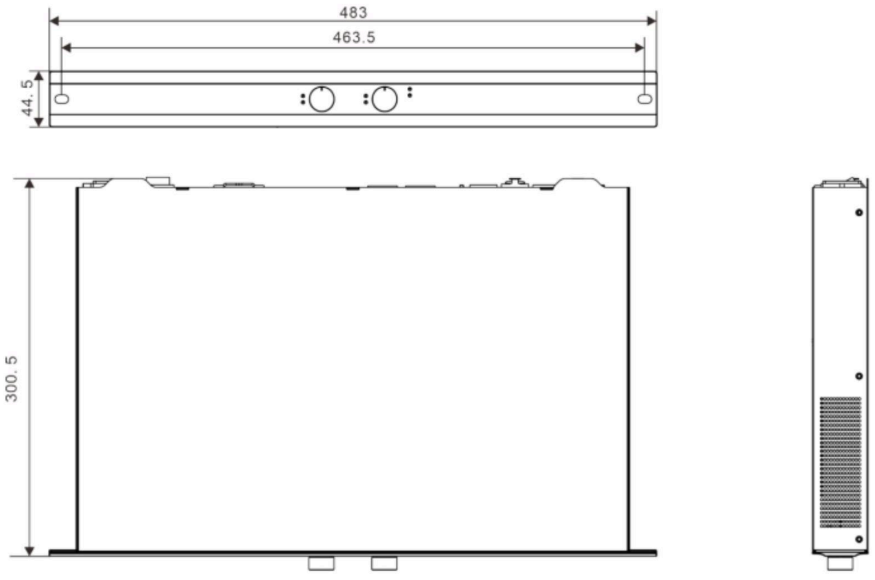
MECHANICAL & ENVIRONMENT PROPERTIES

Mounting Method:	Rack-Mounted
Installation Environment:	Dry Indoor Locations Only
Operatiing Temperature:	0°C~+45°C (32°F~113°F)
Operating Humidity:	≤90% RH Non-Condensing
Front Panel Material:	Surface-Treated Steel Plate
Housing Material:	Surface-Treated Steel Plate
Color:	Black
Product Dimensions:	300.5(D)*483(W)*44.5(H)mm
Product Weight:	3.51kg
Product Warranty:	2 Years

ACCESSORIES

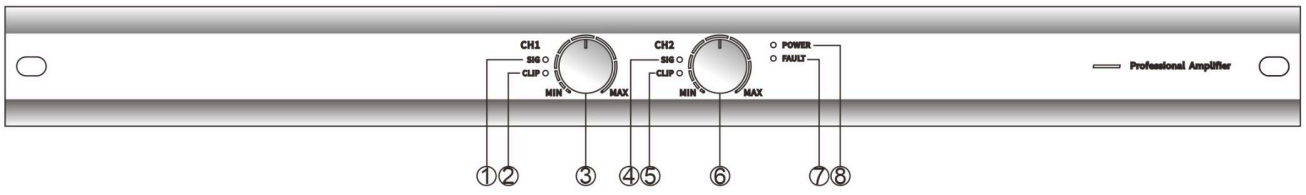
- 4×3M™ Foot Pad
- 1×Power Cord (Optional)
- 1×Warranty & Certification Card
- 1×Quick Installation Guide

DIMENSION DRAWING



PORTS DESCRIBTION

[Front Panel]



① Signal Indicator
Illuminates when the corresponding channel's signal level is above -45dB, remains off with no signal input, and blinks with signal amplitude when the signal frequency is below 50Hz or the level is below -40dB.

② Overload Indicator :
Lights up when distortion in audio for channel 1 reaches a critical state.

③ Volume Knob 1 :
Adjusts the output volume for channel 1. Clockwise increases volume, counterclockwise decreases volume.

④ Signal Indicator [2]:
Remains lit in green when there is an audio signal on Line Input 2 and remains off with no signal input.

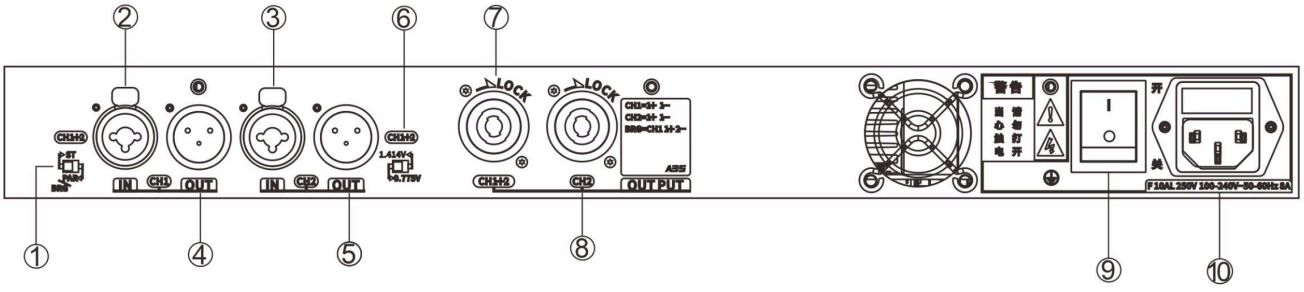
⑤ Overload Indicator [2]:
Lights up when distortion in audio for channel 2 reaches a critical state.

⑥ Volume Knob 2:
Adjusts the output volume for channel 2. Clockwise increases volume, counterclockwise decreases volume.

⑦ Protection Indicator:
Illuminates when the device encounters a protection or fault condition.

⑧ Power Indicator:
Remains lit in red when the device is powered on.

[Rear Panel]



① Mode Switch
ST - Stereo Mode;
PAR/BRG - Parallel/Bridge Mode;
routes the signal from Channel 1 to Channel 2 in PAR/BRG mode.

② Line Input 1 Interface

③ Line Input 2 Interface

④ Line Output 1 Interface

⑤ Line Output 2 Interface

⑥ Input Sensitivity DIP Switch

⑦ Fixed Impedance Output 1 Interface

⑧ Fixed Impedance Output 2 Interface

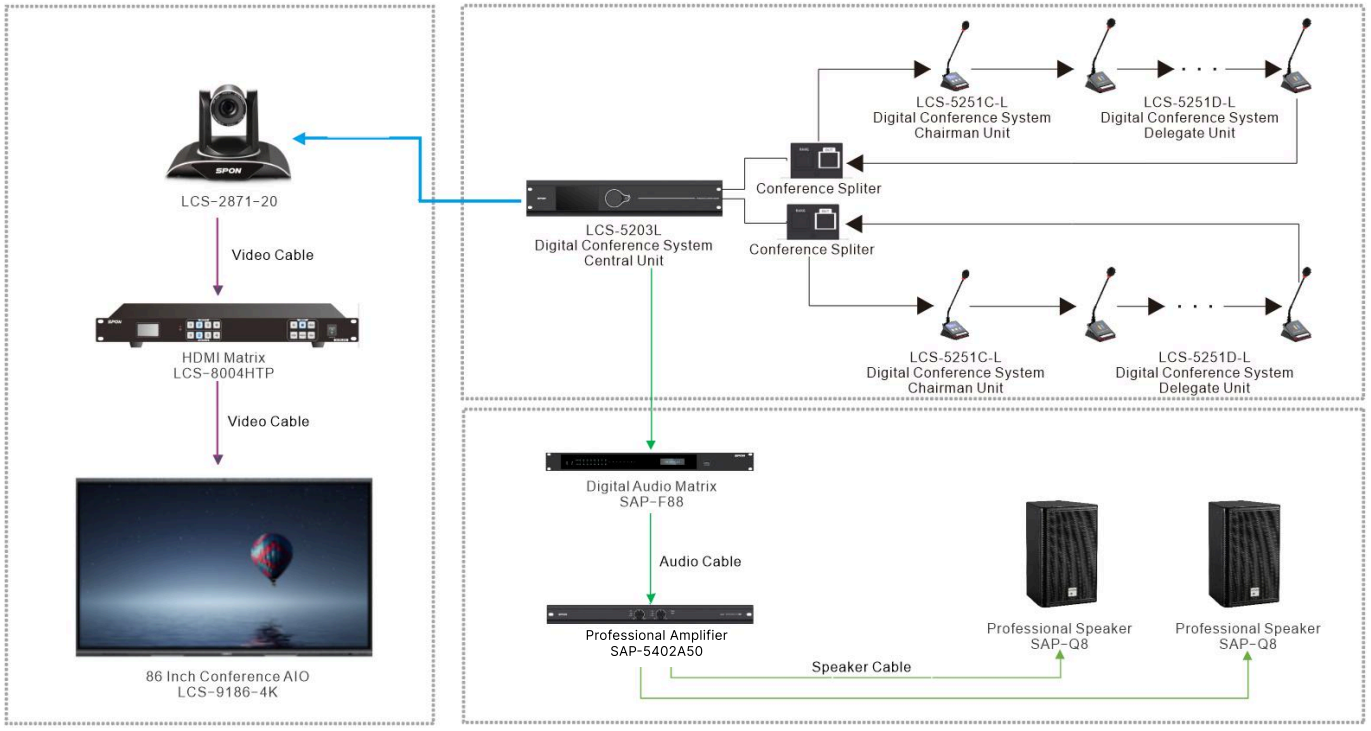
⑨ Power Switch
Controls the power on/off function.

⑩ Power Input Interface

APPLICATION

Application 1

The Conference central unit LCS-5203L support to connect with chairman unit and delegate unit for local conference , also it provide audio output interface to connect with 2*500Watt 8Ohm professional Amplifier SAP-5402A50 to realize local conference sound amplification.



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