

SAP-5402A50

2×500Watt 80hm Professional Amplifier



SPON 500Watt 80hm 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:	2*500W@80hm ,2*1000W@40hm BTL:1000W×1@16Ω,BTL:1800W×1 @8Ω
Power Consumption:	180W(@1/8 Power output ,80hm ,1kHz) 430W(@1/3 Power output ,80hm ,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)

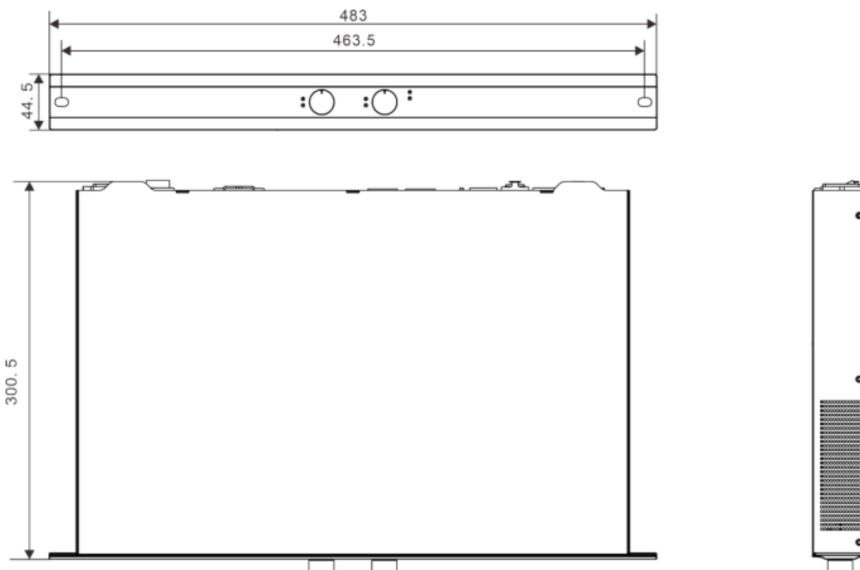
MECHANICAL & ENVIRONMENT PROPERTIES

Mounting Method:	Rack-Mounted
Installation Environment:	Dry Indoor Locations Only
Operating 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:	300.5×483×44.5mm
Product Weight:	3.51KG
Product Warranty:	2 Years

ACCESSORIES

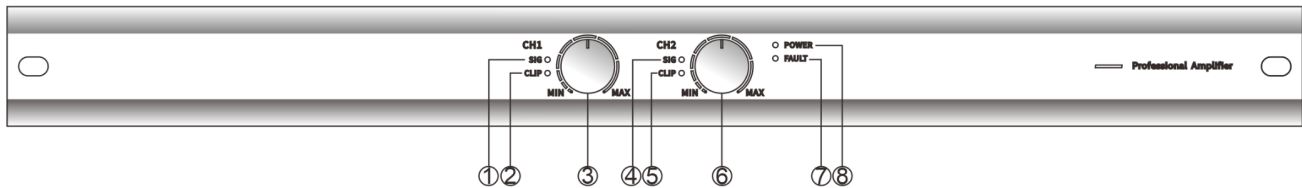
4 × 3M™ Floor Pad
1 × Quick Installation Guide
1 × Quality Certificate&1×Warranty Card
1 × Power Cord

DIMENSION DRAWING



PORTS DESCRIPTION

[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.

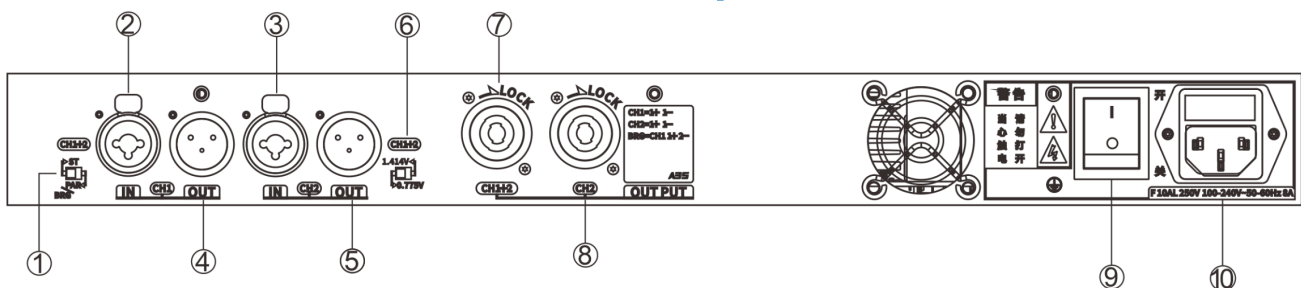
⑦ Protection Indicator:

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

I Application 1

The Conference central unit SAP-5203A 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.

