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Rack Mount Power Amplifier 350W 450W 650W



Besides integrated amplifiers [RH-AUDIO](#) also manufacture power amplifiers, which boost current gain by receiving the lower-power audio signals from preamplifier or mixer to drive the connected loudspeakers.

The rack mount power amplifier is assembled with all the elements in a 2U chassis offering 350/450/650 watts, available with either 70/100-volt or 4 to 16 ohms(Ω) loads.

The power amplifiers features XLR and 6.35mm input sockets also a group of link output to supply audio signal to additional amplifiers.

And features many of the same comprehensive protection circuits typical, complete protection is provided for output short circuit, overload, high temperature, peak current limiters.

Installation of Rack Mount Power Amplifier

Front amplifier is generally connected to the pure post stage amplifier, the front amplifier is used to amplify the voltage, the pure post amplifier is used to amplify the current, the front amplifier is the link equipment between the various sound source devices and the power amplifier, as the output signal electrical level of the sound source equipment is low, the power amplifier can not work properly. The function of the front amplifier is exactly to amplify the signals.

The front stage is the voltage amplifier, which is also the part that influences the timbre the most in the whole equipment. The post stage is the current amplifier which is the real power amplifier part and has great influence on the dynamic and low frequency control power. The general power amplifier should be called the front and the post stage combined mixer amplifier. If we just talk about the technology, the front stage is more demanding than the post stage, which is more difficult to be done well. If you want to add special power lines, we shall not add good power lines in the post stage because the current of the post stage is large, we should add these good lines in



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the front stage.

The front stage includes the matching of input impedance, the amplification of the input signal voltage, the sound enhancement circuit of some amplifiers, the tuning circuit of the tone, etc. The post stage is mainly responsible for the amplification of the frequency, which is mainly the amplification of the current. Therefore, the quality of the front stage of the power amplifier is directly related to the quality of the power amplifier.

The front stage is mainly used to provide appropriate audio electrical level signals for the post stage and adjust the sound quality such as the high and low bass effect, the left and right channel volume and so on. The post stage, commonly known as pure post stage, it simply amplifies the audio signals provided by the front stage to provide enough power to drive the loudspeakers.

The characteristics of [power amplifier rack](#):

- ※ CE & RoHS certified.
- ※ Power rates: 350W/450W/650W available.
- ※ Aluminium alloy panel with standard 19" 2U height.
- ※ 100% pure copper toroidal transformers.
- ※ TOSHIBA amplifier transistors.
- ※ RCA and XLR socket for convenient link.
- ※ 70V, 100V and 4~16Ω outputs.
- ※ Output short circuit, overload, high temperature protection and alarm.

The specifications of [lightweight power amp](#):

Model	RH2836W	RH2846W	RH2866W
Rated Power	350W	450W	650W
Output Terminals	Low impedance:4-16 ohms(Ω)		
	350W	Voltage line:70V(13.6 ohms(Ω)) 100V(27.8 ohms(Ω))	
	450W	Voltage line:70V(10.7 ohms(Ω)) 100V(21.7 ohms(Ω))	
	650W	Voltage line:70V(7.4 ohms(Ω)) 100V(15.1 ohms(Ω))	
LINE Input	10k ohms(Ω) < 1V ,unbalanced		
AUX Output	10k ohms(Ω) 0.775V (0 dB) ,unbalanced		
Freq. Response	60 Hz ~ 15k Hz (± 3 dB)		
THD	<0.5% at 1kHz,1/3 of rated power		



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S/N	>70 dB		
Damping Factor	200		
Controls	Volume control,power switch		
Cooling Fan	DC 12V FAN		
Indicator	AC:‘POWER’,‘CLIP’,‘SIGNAL’,‘PROT’,‘TEMP’		
Protection	AC FUSE ×10A	AC FUSE×12A	AC FUSE×15A
	AC FUSE×1,short circuit,overload,high temperature		
Power Cord	(3×1.5 mm ²)×1.5M (Standard)		
AC Power	AC110V~120V, AC220V~240V 50-60Hz optional		
Consumption	485W	620W	880W
Dimension	89(H)×483(W)×366(D)mm		
Packing Size	185(H)×520(W)×435(D)mm		
Net Weight	15.12kg	17.66kg	19.74kg
Gross Weight	16.76kg	19.3kg	21.36kg



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