



DEERSYNC™

HP12E

User ' s Guide

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Thank you for purchasing Deersync HP12E 8-channel headphone amplifier. The HP12E is a professional 8-channel headphone amplifier with rich application scenarios.

Protect your HP12E



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure. Voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read manual.

Read Instructions:

Retain these safety and operating instructions for future reference. Heed all warnings printed here and on the equipment. Follow the operating instructions printed in this user guide.

Do Not Open:

There are no user serviceable parts inside. Refer any service work to qualified technical personnel only.

Power Sources:

Only connect the unit to mains power of the type marked on the rear panel. The power source must provide a good ground connection.

Power Cord:

Use the power cord with sealed mains plug appropriate for your local mains supply as provided with the equipment. If the provided plug does not fit into your outlet consult your service agent. Route the power cord so that it is not likely to be walked on, stretched or pinched by items placed upon or against.

Grounding:

Do not defeat the grounding and polarization means of the power cord plug. Do not remove or tamper with the ground connection on the power cord.

Ventilation:

Do not obstruct the ventilation slots or position the unit where the air required for ventilation is impeded. If the unit is to be operated in a rack, case or other furniture, ensure that it is constructed to allow adequate ventilation.

Heat:

Do not locate the unit in a place close to excessive heat or direct sunlight, as this could be a fire hazard. Locate the unit away from any equipment, which produces heat such as: power supplies, power amplifiers and heaters.

Environment:

Protect from excessive dirt, dust, heat, and vibration when operating and storing. Avoid tobacco ash, drink spillage and smoke, especially that associated with smoke machines.

Handling:

To prevent damage to the controls and cosmetics avoid rough handling and excessive vibration. Protect the controls from damage during transit. Use adequate padding if you need to ship the unit. To avoid injury to yourself or damage to the equipment take care when lifting, moving or carrying the unit.

Servicing:

Switch off the equipment and unplug the power cord immediately if it is exposed to moisture, spilled liquid, objects fallen into opening, or the power cord or plug becomes damaged during a lightning storm or if smoke odor or noise is noted. Refer servicing to qualified technical personnel only.

Installation:

Install the unit in accordance with the instructions printed in the user guide.

Warranty:

Deersync LLC warrants that the product conforms substantially to the specifications contained in the Product's documentation for a period of 1 year from the date of original purchase. In the case of a valid warranty claim, Deersync's liability will be, at its option, to repair or replace the product without charge or, if this is not possible, to refund the purchase price to you.

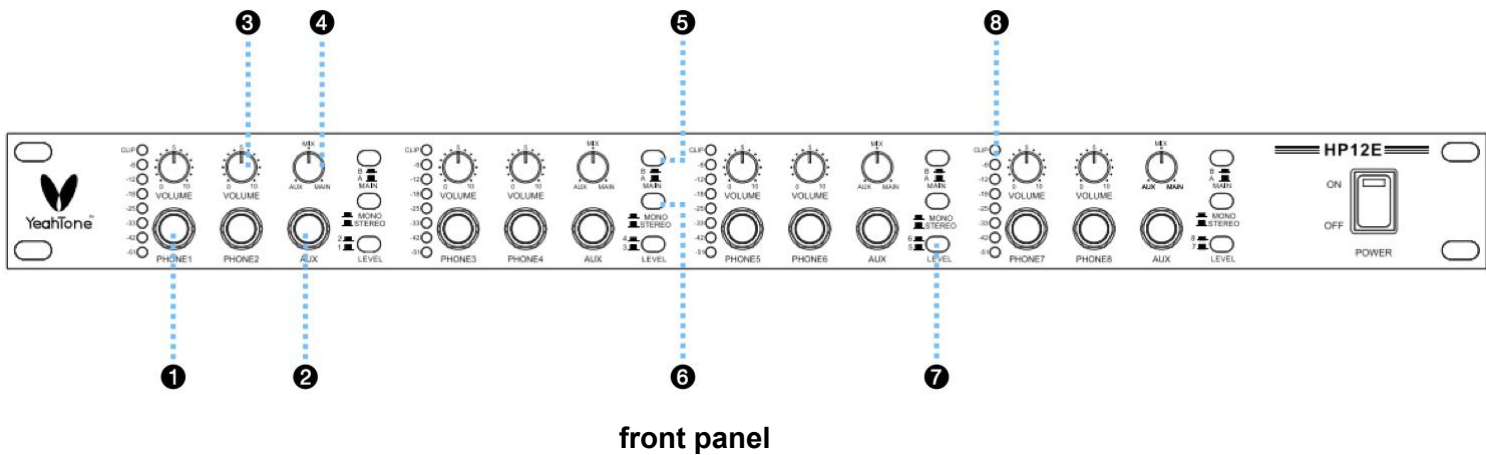
For warranty service, please contact Deersync's international distributor, Yeahtone Technology Inc. by email: info@yeahtone.com.

Getting to know your HP12E:

The HP12E is a professional 8-channel headphone amplifier, featuring eight stereo 6.3mm output ports on the front panel, with each channel equipped with individual volume control knobs. Additionally, for every two channels, there is one AUX auxiliary input on the front panel, accompanied by control knobs to adjust the blending of both main and auxiliary inputs, providing comprehensive mixing functionality.

The STEREO/MONO allows switching the headphone's stereo output to L+R mono. Additionally, for every two channels, there are 8-segment LED indicator lights displaying signal strength, with the LEVEL switch facilitating toggling between each channel's display. The rear panel's main input ports include XLR and 6.3mm balanced interfaces, along with identical serial input ports for daisy-chaining multiple HP12E units.

1. Functions:



1. PHONE Jack:

Each channel features a stereo 6.3mm output port, allowing connections to stereo headphones or other headphone amplifiers.

2. AUX Jack:

The 6.3mm auxiliary input on the front panel is a stereo unbalanced port. When a signal is inputted into this port, it mixes with the balanced audio source input from the rear panel.

3. Volume:

Independent volume control for each channel.

4. MIX:

The MIX control adjusts the blending depth between the main signal source and the auxiliary input signal. This functionality is particularly useful for balancing vocal microphone and main signal source signals.

5. A/B Input source switches

Press the button to toggle between A/B input sources.

6. Stereo and Mono Switches

This button can convert the stereo headphone output into L+R mix (this setting is not affected by mixing or volume adjustments).

7. Level

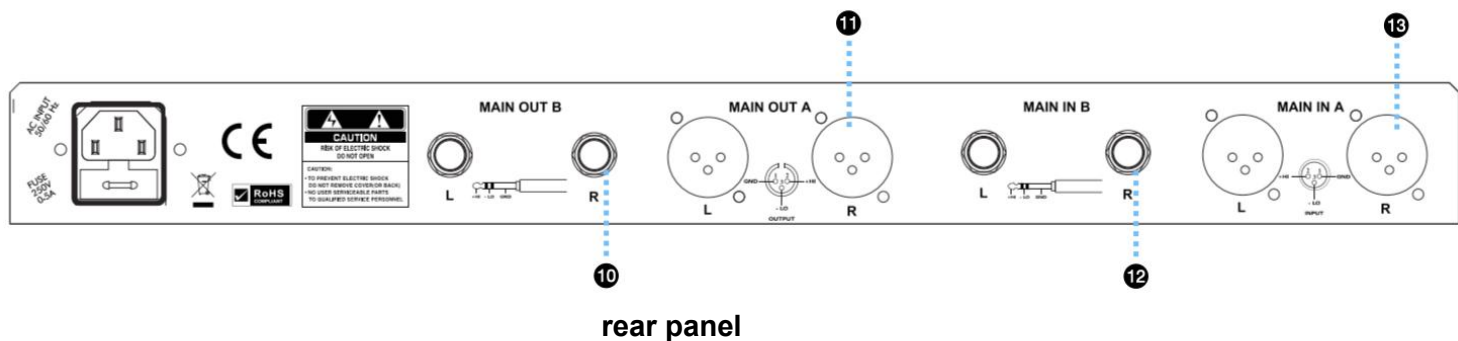
Switch to display specified channel LED lights.

8. LED indicator

The LED lights display the level of this channel.

9. Power Switch

This toggle switch functions as the power on/off switch. It features an LED indicator light on the switch.



10. MAIN OUT B

6.3mm TRS stereo output.

11. MAIN OUT A

XLR stereo output.

12. MAIN IN B

6.3mm TRS stereo input.

13. MAIN IN A

XLR stereo input.

Additional note:

The XLR and 6.3mm TRS main serial output ports are parallel with their corresponding balanced main inputs. The main function is to daisy-chain multiple HP12E units.

The XLR and 6.3mm TRS input ports are balanced and accept line-level audio signals. The gain sensitivity of these two ports is identical.

2. Features:

- The main input and output are XLR and 6.3mm balanced interfaces, catering to daisy-chaining needs.
- Each two channels is equipped with a switch for toggling between main and auxiliary inputs.
- The front panel provides 4 auxiliary input ports.
- The blending level between main and auxiliary input sources is adjustable.
- 8 channels headphone amplifier with independent volume control.
- 4 sets of LED indicators display signal strength.

3. Specifications:

- **Input Impedance**

Balanced Main Input XLR and 1/4-inch TRS Jacks.....40K Ohm Balanced

AUX Jack.....9.9K Ohm

- **Output Impedance**

Headphone Output.....≤12 Ohms

- **Frequency Response**

With Tone Controls Set Flat..... 20 Hz – 50 KHz +0, -2dB

- **Dynamic Range**

Ref: 130mW @ 600 Ohms (unit set to max gain).....≥101 dB (typical)

- **Maximum Gain**

@ 1KHz With Tone Controls Set To Flat25.6 dB

- **Maximum Output Level**

600 Ohm Headphones @ 1 KHz150 mW

32 Ohm Headphones @ 1 KHz500 mW

8 Ohm Headphones @ 1 KHz150 mW

- **Dimensions (H x W x D)**

..... 1.75 Inches x 19.0 Inches x 7.55 Inches

..... 44.5 mm x 482.6 mm x 190.5 mm

- **Weight**

..... 6.8 lbs. 3.1 kg.

- **Power Requirements**

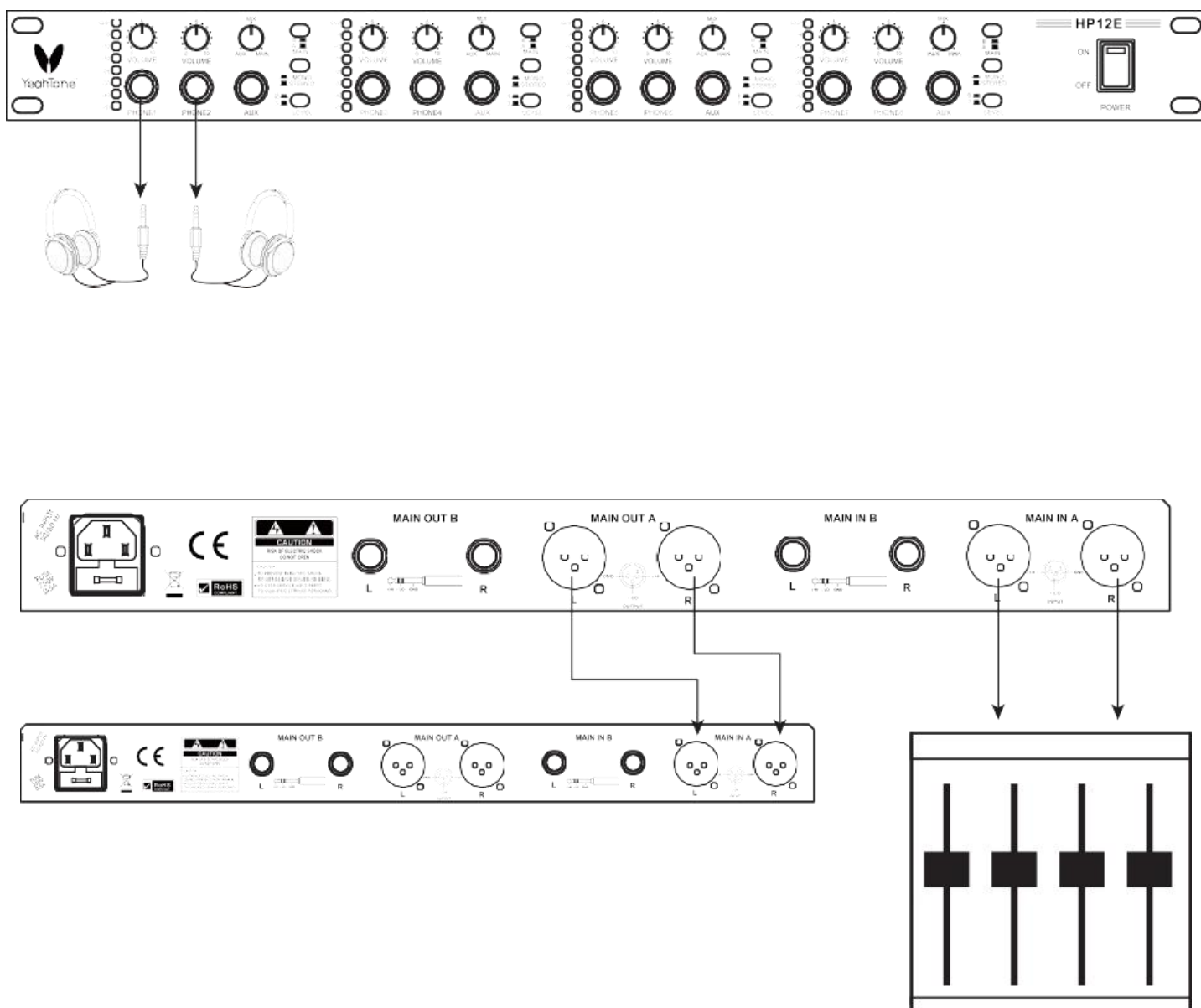
Input.....USA -220 VAC AC 50 Hz

Consumption 60 Watts Maximum - 18 Watts Idle

.....Export units configured for country of destination

Ref: 0 dBu = 0.775VAC RMS

4. Block Diagram





DEERSYNCTM

HP12E

User ' s Guide

用户手册

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感谢购买 Deersync HP12E. HP12E 是一款应用场景丰富的专业级 8 路耳机扩大器。产品在提供功能性和专业性的同时，采用具有设计感的铝制面板，锁在机架上极具美感。

法律声明:

对于任何因在此说明书提到的全部或部份描述、图片或声明而造成的损失，DEERSYNC 不负任何责任。技术参数和外观若有更改, 恕不另行通知。

售后说明:

Deersync LLC 为您提供从最初购买之日起一年期的售后服务。在有效保修和索赔的情况下，Deersync 会为您提供免费维修以及换新服务，如果以上情况仍未能解决您的需求，我们将向您退还购买价格。

有关保修问题及服务，请联系 Deersync 的国际代理商 Yeahtone Technology Inc.
Email: info@yeahtone.com

如何保护你的HP12E

为获得最佳性能和安全性，请在连接，操作或调整本产品之前仔细阅读这些说明。请保留本手册以备将来参考。

1. 请勿在靠近水的地方使用本产品。
2. 请用干布清洁本产品。请勿使用清洁剂，喷雾或者湿布进行擦拭。请勿使用含汽油，酒精等溶剂进行擦拭。
3. 请在清洁产品之前移除连接线。
4. 防止电源线被踩踏或挤压，特别是插头处。
5. 请保证接口内的清洁，避免杂物灰尘落入。
6. 请勿将本产品安装在热源附近，如暖气片，炉子或其它产生热量的设备。
7. 请勿将重物置于产品之上。
8. 遇闪电雷鸣或长期不使用本设备时，请拔出电源插头。
9. 设备受损时需进行维修，所有维修均须由合格的维修人员进行。

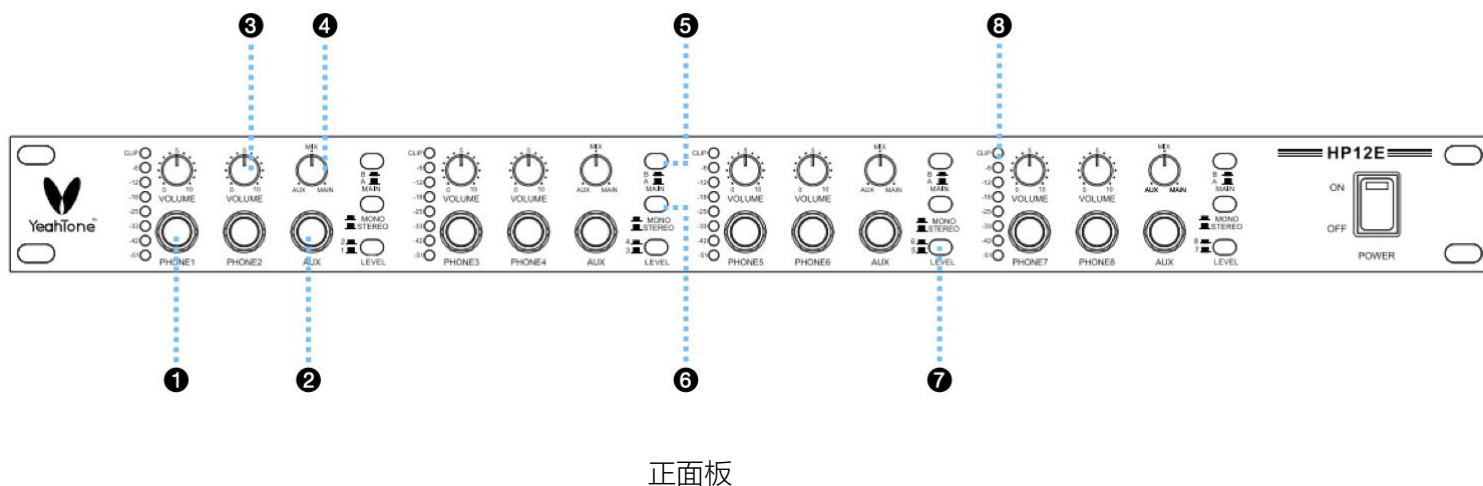
例如：插头受损，液体流入或异物落入设备内，设备遭雨淋或受潮，设备不能照常运作或被摔坏。

了解你的HP12E

HP12E 是专业级 8 路耳机扩大器，前面版有 8 个立体声 6.3 输出端口，且每路提供独立的音量控制旋钮。每 2 路在前面板有 1 路的 AUX 辅助输入，并带有控制旋钮可以调整主输入及辅助输入的混音程度，提供完善的混音功能。

STEREO/MONO 切换开关可将耳机的立体声输出切换为 L+R 单声道。同时每 2 路也提供 8 段 LED 提示灯显示信号的强弱，并通过 LEVEL 开关做每路显示的切换。背部的主输入端口包括 XLR 卡农及 6.3 平衡接口，并提供相同的串接输入端口以串接多台 HP12E。

1. 产品功能:



正面板

1. PHONE Jack 输出端口

每路有立体声 6.3 输出端口，可连接立体声耳机或是其他的耳机扩大器。

2. AUX Jack 辅助输入接口

前面板的 6.3 辅助输入是立体声非平衡端口，当此端口有信号输入时，与后面板的平衡音源输入混合。

3. Volume 控制

每路独立的音量调整。

4. MIX 控制

此 MIX 控制就是调整主讯号音源与辅助输入音源的混合深度。此功能非常适合用在人声麦克风及主讯源信号的平衡。

5. A/B Input source switches 按键

下按切换A/B输入源

6. Stereo and Mono Switches 按键

此按键可以将立体声耳机输出变为 L+R 混合(此设定不受混音，音量调整的影响)。

7. Level (电平显示) 按键

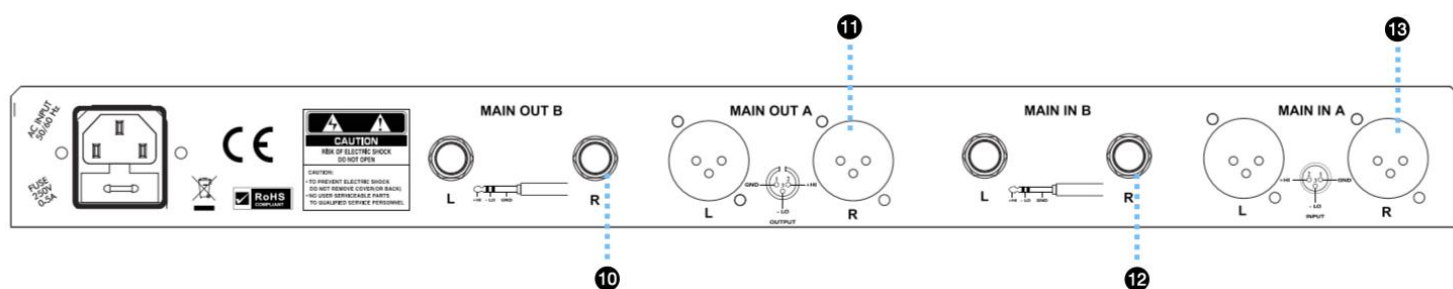
切换显示指定路 LED 灯。

8. LED 指示灯

通过显示灯显示该路的电平

9. Power Switch 电源开关

此摇头开关是开关机的功能。开关上带有 LED 指示灯。



10. MAIN OUT B

6.3TRS立体声输出。

11. MAIN OUT A

XLR 立体声输出。

12. MAIN IN B

6.3TRS立体声输入。

13. MAIN IN A

XLR立体声输入。

补充说明： XLR 及 6.3 TRS 主串接输出端口跟对应的平衡式主输入是并联的方式。主要功能是可以串接多台 HP12E。

XLR 及 6.3 TRS 输入端口是平衡式，接受 Line 音源讯号。此两个端口的增益灵敏度是相同的。

2. 产品特性:

- 主输入、主输出为 XLR 卡农及 6.3 平衡接口，可提供串接的需求。
- 每 2 路耳机带一个主输入或辅助输入的切换开关。
- 前面板提供 4 个辅助输入端口。
- 主输入及辅助输入音源的混音程度可调。
- 专业级 8 路耳机扩大器，有独立音量控制。
- 4 组 LED 指示灯显示讯号的强弱。

3. 技术参数:

- **Input Impedance (输入阻抗)**

Balanced Main Input XLR and 1/4-inch TRS Jacks.....40K Ohm

Balanced AUX Jack.....9.9K Ohm

- **Output Impedance (输出阻抗)**

Headphone Output..... ≤ 12 Ohms

- **Frequency Response (频率响应)**

With Tone Controls Set Flat..... 20 Hz – 50 KHz +0, -2dB

- **Dynamic Range (动态范围)**

Ref: 130mW @ 600 Ohms (unit set to max gain)..... ≥ 101 dB (typical)

- **Maximum Gain (最大增益)**

@ 1KHz With Tone Controls Set To Flat25.6 dB

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- **Dimensions (H x W x D) 尺寸(高 x 宽 x 深)**

..... 1.75 Inches x 19.0 Inches x 7.55 Inches

..... 44.5 mm x 482.6 mm x 190.5 mm

- **Weight (重量)**

..... 6.8 lbs. 3.1 kg.

● **Power Requirements (电源要求)**

Input.....USA -220 VAC AC 50 Hz

Consumption 60 Watts Maximum - 18 Watts Idle

.....Export units configured for country of destination

Ref: 0 dBu = 0.775VAC RMS

