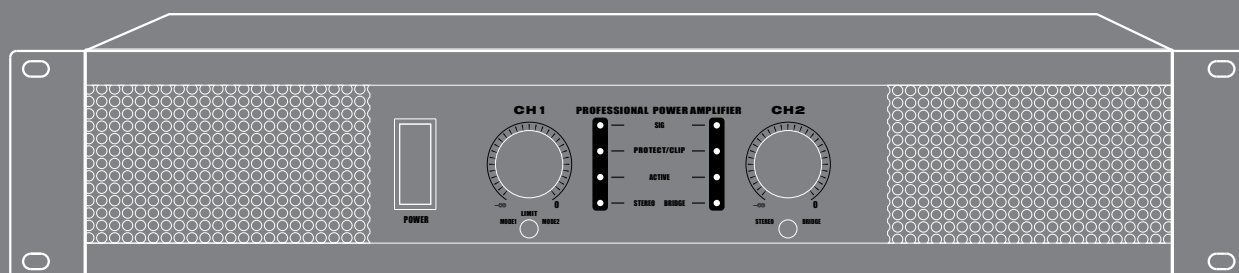


首检单记录表

产品型号	DH500 DH1200 DH700 DH1400 DH900 DH1800	说明类型: <input type="checkbox"/> 中文 <input type="checkbox"/> 中文中性 <input type="checkbox"/> 无商标 <input type="checkbox"/> 无型号 <input checked="" type="checkbox"/> 英文 <input type="checkbox"/> 英文中性 <input type="checkbox"/> 无商标 <input type="checkbox"/> 无型号			
客户名称	U	客户代码		商 标	DIGISYNTHETIC®
文件编号	DS-09-1-08-1022	有效版本	V1.0	更改次数	第0次
物料编码	0-04105483			有效页数	6
检验内容	请检查内容是否正确				
检验结果	送 检 人: 董世友 日期: 15年 9月 24日				
	校 对: 邵 斌 日期: 15年 9月 24日				
	开发审核: 邵 斌 日期: 15年 9月 24日				
	开发批准: 郑自强 日期: 15年 9月 24日				
	销售审核: 邵 斌 日期: 15年 9月 24日				
	品质审核: 日期: 年 月 日				
修改内容: 后板电源参数与技术规格电源参数修改					
工程技术评估: <input type="checkbox"/> 修改BOM <input type="checkbox"/> 修改订单要求表					
备 注:					

DH Series professional power amplifier

DH500	DH1200
DH700	DH1400
DH900	DH1800



IMPORTANT SAFETY INSTRUCTION

Please read the basic protective measure as below before using

1. Please read all the safety instruction before using the product.
2. This product must be earthed. If it should be malfunction or break down, grounding provides a path of least resistance for electric current to reduce risk of electric shock.

This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged in to an appropriate outlet that is properly installed and earthed in accordance with all local codes and ordinance.

DANGER-Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product-if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

3. To reduce the risk of injury, close supervision is necessary when the product is used near children.

4. Do not use this product near water-for example, near a bathtub, washbowl, kitchen sink, in wet basement or near a swimming pool or the lake.

5. This product may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

6. This product should be located so that its location or position does not interfere with its proper ventilation.

7. This product should be located away from heat sources such as radiators, heat registers or other products that produce heat.

8. The product should be connected to a power supply only of the type described on the operation instructions or as marked on the product.

9. This product may be equipped with a polarized line plug (on blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

10. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.

When unplugging the power-supply cord, do not pull on the cord, but grasp it by the plug.

11. Care should be taken so that object do not fall and liquid are not spilled into the enclosure through opening.

12. The product should be serviced by qualified service personnel when:

A. The power-supply cord or the plug has been damaged; or

B. Objects have been fallen, or liquid has been spilled into the product; or

C. The product has been exposed to rain; or

D. The product does not appear to operate normally or exhibits a marked change in performance; or

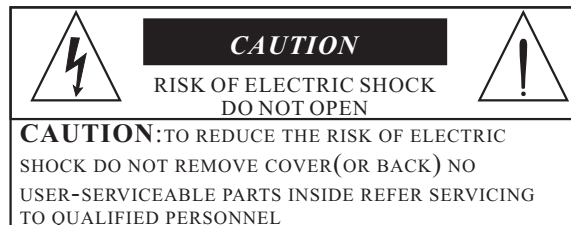
E. The product has been dropped or the enclosure damaged.

13. Do not attempt to service the product beyond that described in the User-maintenance instructions.

All other servicing should be referred to qualified service personnel.

14. WARNING-Do not place objects on the product's power cord or place it in a position where anyone could trip over, walk on or roll anything over it. Do not allow the product to rest on or to be installed over power cords of any type. Improper installations of this type create the possibility of fire hazard and/or personal injury.

15. The power-supply cord should be unplugged from the outlet when the products is completely power off from the electric power sources and electric networks.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

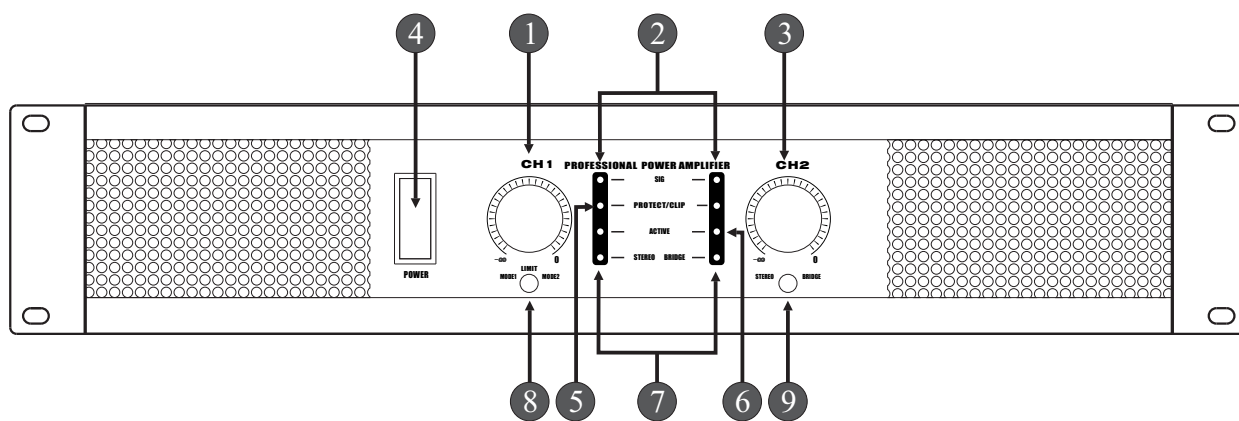


Only use it below the altitude of 2000m for safety application.



Only use it in nontropical climate condition for safety application.

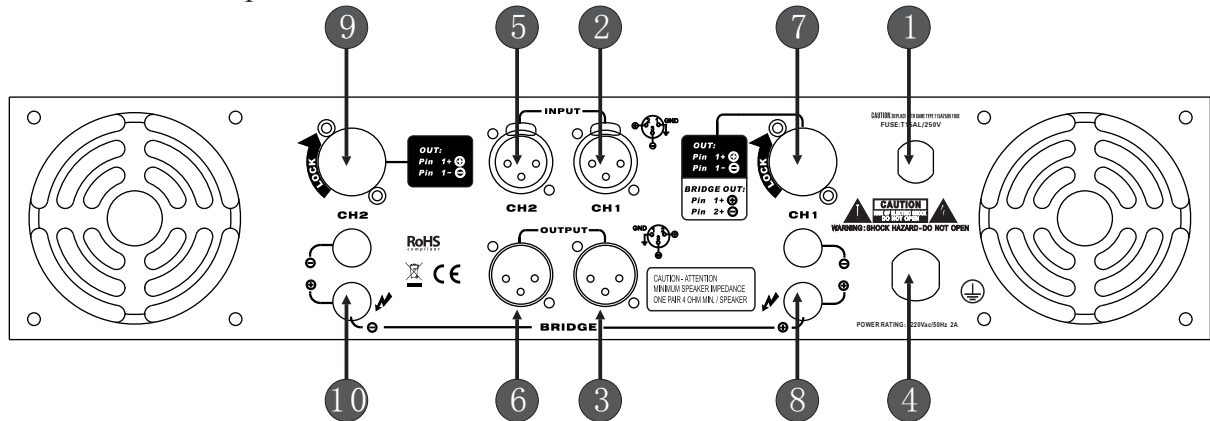
Front Panel



- ① CH 1 volume knob
- ② SIGNAL
- ③ CH 2 volume knob
- ④ POWER
- ⑤ PROTECT/CLIP indicator

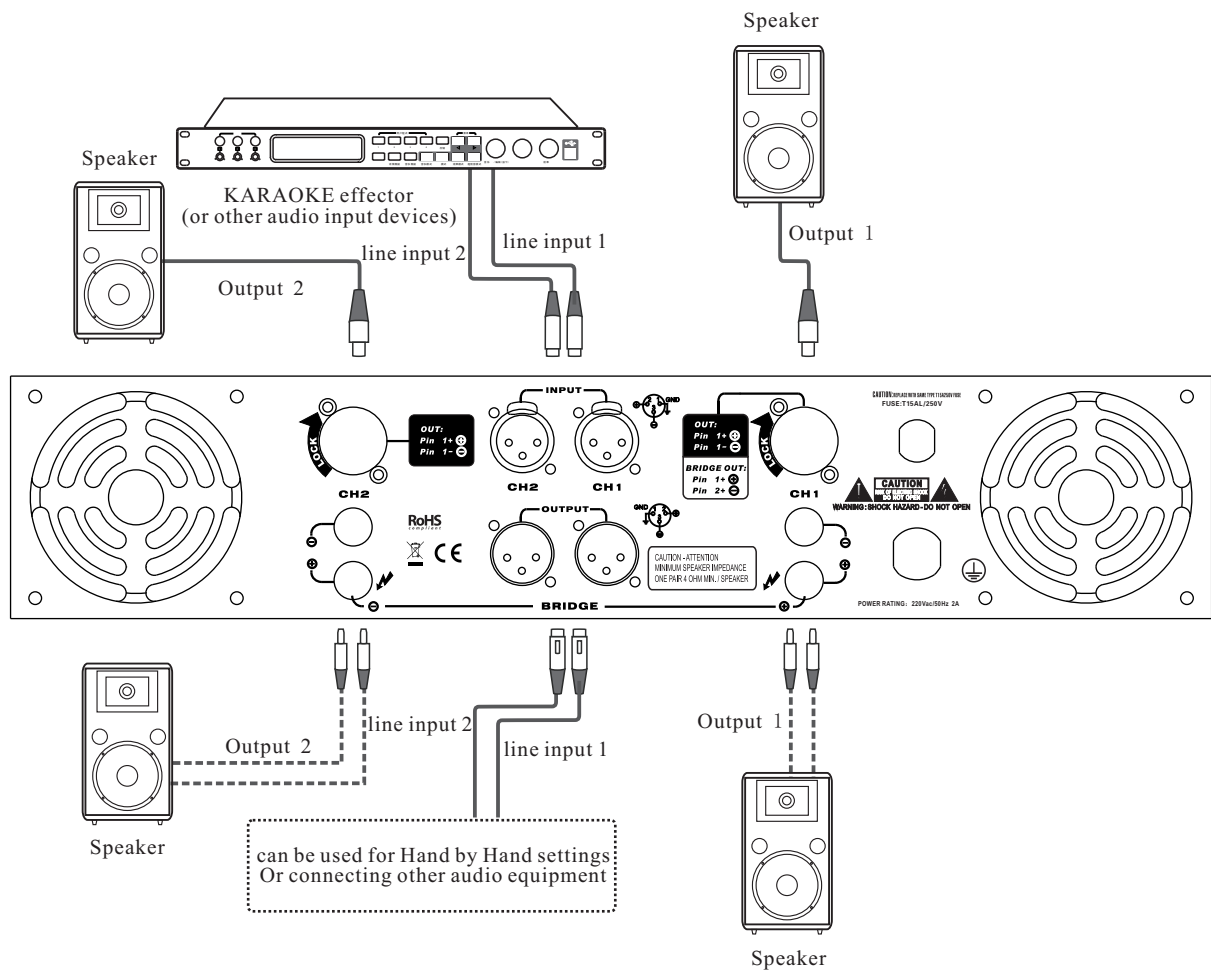
- ⑥ ACTIVE indicator
- ⑦ STEREO/BRIDGE indicator
- ⑧ LIMITER MODE1/MODE2 switch
- ⑨ STEREO/BRIDGE switch

Introduction to rear panel controls



- ① fuse
- ② CH 1 line input XLR interface
- ③ CH 1 line output XLR interface
- ④ AC Cord
- ⑤ CH 2 line input XLR interface
- ⑥ CH 2 line output XLR interface
- ⑦ CH 1 speaker SPEKON output interface
- ⑧ CH 1 speaker Binding Post output interface
- ⑨ CH 2 speaker SPEKON output interface
- ⑩ CH 2 speaker Binding Post output interface

System connection diagram



Function feature

- 2 output modes: Stereo & Bridging
- Complete protection circuit: overheat, overload, short circuit protection
- High efficiency cooling: variable speed fan + high efficiency radiator
- 2U size, easy to install
- Limit function
- Low distortion
- Balanced XLR input
- Efficient heat radiator, the built-in forced air cooling system, faster and more uniform spread heat, Provide additional protection to power amplifier, increase power output

Open the package

Please open the package and carefully check for any damage during shipping. If discover damage, please notify shipping company immediately. The consignee has the right to claim for damage to the carrier. Please save all the packaging materials for the service of the factory, which rarely happens.

1. Installation

Note: when connected with the power amplifier, always rotate the volume counter anticlockwise to control to minimum. This will reduce the howling, prevent damage to the speaker.

Important: the following guidance can help you quickly and easily install the power amplifier, ready to run.

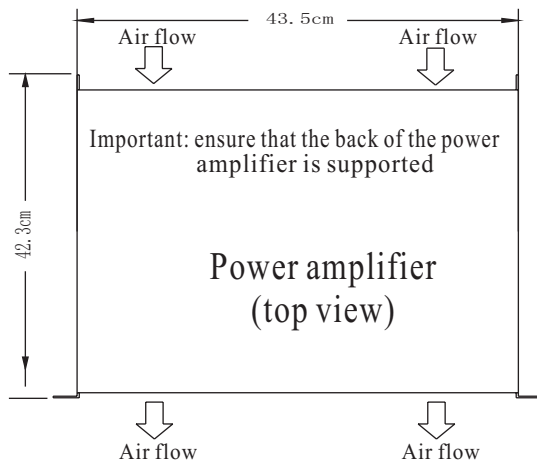
Select the operation of the mode according to 2.2, Section 2.1 description.

Input sensitivity, load protection, AC power requirements in Section 2.3.

- Operation of mode selection according to the 2.1,2.2 specification.
- The input sensitivity, protection, AC power load requirements in section 2.3.

1.1 install the amplifier in the standard 19 inch (48.3 cm) bracket or placed on the stable flat.

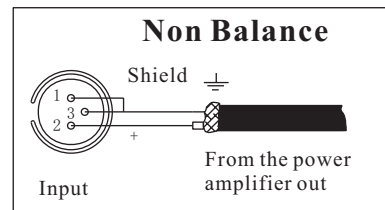
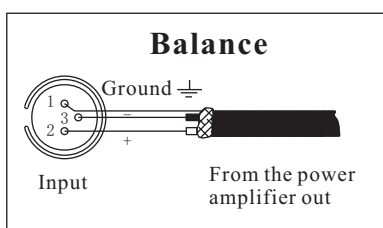
The installation size is length 19 inches (48.3cm), high 3.5 inches (8.9 cm). depth 16.6 inches (42.3cm)



**In front of the power amplifier
Don't block air flow**

1.2 use high quality speaker connection cable to connect the speaker.

1.3 use the shielded wire connection source. Such as the balance of the following figure, the non - balanced line also can be used. (optional barrier type input interface with PM-BB accessories)



2. Introduce

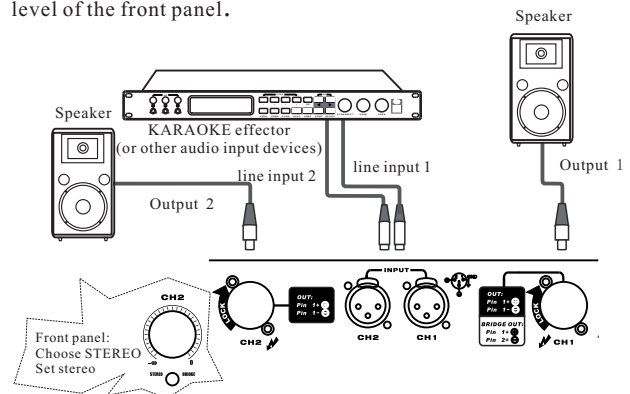
2.1 stereo

1 reduce the level of control (counterclockwise rotation in the end), off the power amplifier.

2 front panel switch is set to STEREO.

3 connect input and output cable.

4 open the amplifier, adjust the level of each channel by using the level of the front panel.



Stereo connection

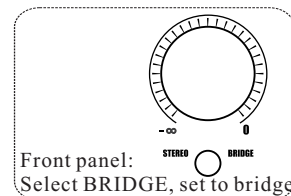
2.2 bridge Mono

1. reduce level control (clockwise), close the power amplifier.

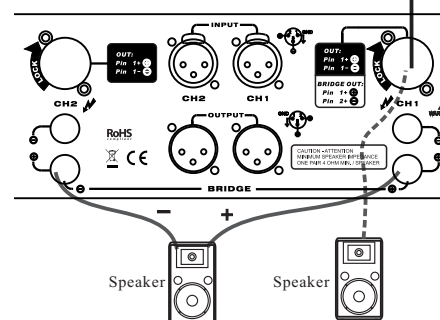
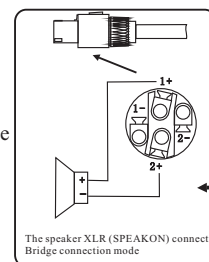
2. front panel switch, set to BRIDGE.

3. connect input and output cable. Only the input channels CH 1 are available.

4 make sure that the load is balanced (any one side is not grounded), and can not be used black color (-) - wire column.
5 open amplifier, adjust level control. Only the input channels CH 1 are available.



Warning:
Bridge-Mono mode must be used for impedance 8Ω.



The bridge connects the conjunction of way

2.3 AC power requirements

This series of power amplifier is equipped with suitable power cable and plug. If possible, use the special wire power outlet. Make sure that the correct voltage and current are available. Don't be in use the power amplifier below 10% of the rated voltage.

Note: connect the machine to the correct power supply. Use of the three core power supply cord we provide.

3 operation

3.1 prevention

Although the power amplifier is protected against external errors, the following preventive measures are recommended:

1 stereo, bridge - Mono operation mode has important differences. Please refer to section 2.

2 **warning:** only in the case of the shutdown, the STEREO/BRIDGE switch can be adjusted

Note: determine the correct setting for the STEREO/BRIDGE switch. Reference 2.1, 2.2 section.

3 cable, select the signal source, adjust the output of the electric usually careful operation.

4 the cable output cable can not connect to the signal input ground. Otherwise cause earth loop, as well as Oscillating.

5 supply power supply voltage of the power amplifier can not exceed 10% of the upper and lower limits, and can only work at rated frequency.

6 don't connect the output to the power output, battery and power source. Otherwise cause electric shocks.

7 the unauthorized modification of the circuit or the unauthorized modification of the circuit may cause danger, and make the warranty liability invalid. The company will not responsible for the damaged cause excessive driver for other systems

3.2 power indicator

When the green power indicator is on, it indicates that the power amplifier is open, and the low voltage supply can make showing light.

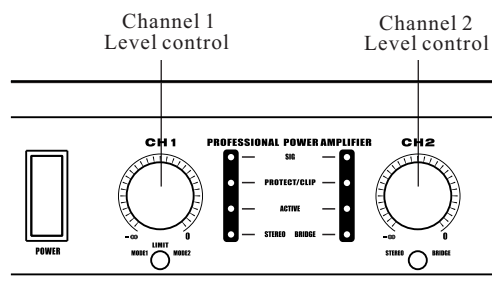
3.3 signal protection circuit

When the input and output signal flow deviate greatly, the internal signal pressure limit protection circuit automatically reduce gain, to prevent the internal nonlinearity of the amplifier due to over excitation, overload, or error. and to keep the signal waveform is not changed under any conditions. The circuit keeps the distortion of the signal current below 0.5%, thus ensuring a clear sound and effective speaker protection.

4 technical specifications

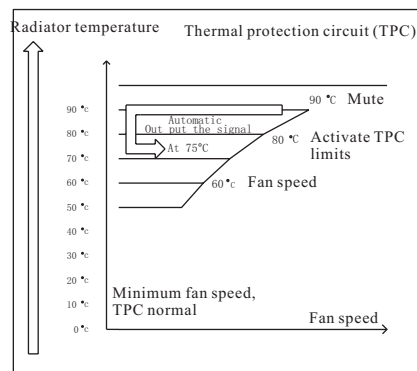
Without special provisions, all the power amplifier specifications are in the following settings: stereo mode type, 8Ω , 38.5db input sensitivity. Power specifications

Output power: the following specifications can be guaranteed at least the power of the standard 1kHz.



Front panel level control

The following diagram shows the action of the heat management system:



TPC

Load impedance: all kinds of load can be used.

Stereo mode: $4-8\Omega$;

Bridge-Mono: 8Ω .

AC power supply: the back plate of each machine provides current, frequency and voltage requirements

Idle power consumption: $\geq 90W$.

The maximum current of the series is: (220V/50Hz)

10A: DAH 500 /DAH 700 /DAH 900

15A: DAH 1200/DAH 1400 /DAH 1800

Control

Power: front panel rocker switch to open the power amplifier.

Level: the front panel of each knob potentiometer output level control.

Stereo / mono: front panel switch selects stereo, bridge - mono. Input / output data

Input interface: balanced XLR connection.

Input impedance: balanced 20K ohms, non - balanced 10 K ohms.

Output: 2 way connecting terminal with two sets of different color markers and two sets of waterproof speaker deck Interface.

Output impedance: with 2 μH connection $< 10m$.

DC output offset: 100 mV.

Signal output mode

Stereo: balanced, two channels.

Bridge - Mono: balance, single channel. Use channel 1; two level indicator can be used.

Protection

This series of power amplifier provides short circuit, do not match the load, power source, temperature is too high, input overload and high frequency amplification protection. Damage speaker input and output DC protection. Open /Off transient protection.

If the working condition is excessive, especially the temperature increases, the circuit limits the driving level. Protective output transistor. Built in temperature control switch protect output device overload. If the transformer is over heat, the heat switch is cut off and the power is cooled to the safe temperature, Automatic reset.

Open: 3 seconds without the danger of transient.

Structure

Durable steel chassis black handle, Ventilation structure of front panel to rear panel.

Cooling: built in heat sink, two 80mm high speed and low noise automatic speed adjustment fan, forced ventilation, fast uniform drive to heat.

Technical parameters

Model			DH 500	DH 700	DH 900
Output power (W) RMS	4Ω Load	Double load	500	700	1000
	8Ω Load	Double load	350	500	650
		Bridge	1000	1400	2000
Sensitivity (V)			440mV	530mV	580mV
Input impedance (KΩ)			10	10	10
Frequency response (Hz)			20~20K	20~20K	20~20K
SNR (dB) Pout=1/8Pomax, F=1KHz			> 90dB	> 90dB	> 102dB
Isolation degree @1KHz (dB) Pout=1/8Pomax, F=1KHz			> 80dB	> 80dB	> 83dB
Balance degree(DB) Pout=1/8Pomax, F=1KHz			< 0.5	< 0.5	< 0.5
Distortion degree Pout=1/8Pomax, F=1KHz			0.02%	0.02%	0.02%
Dynamic range (dB)			100	100	105
Intermodulation distortion=1KHz 8Ω			< 0.05%	< 0.05%	< 0.05%
Maximum total power consumption (W) 4Ω/8ΩTHD+N=1%			1100/1000	1500/1400	2000/1800
Input interface			XLR (SPEAKON)	XLR (SPEAKON)	XLR (SPEAKON)
Output interface			XLR (SPEAKON)connect line pillar (BANANA JACK)		
Power input voltage			220Vac /50Hz	220Vac /50Hz	220Vac /50Hz
Fuse			T15AL /250V	T15AL /250V	T15AL /250V
Size (mm)			2U, 482 423 89	2U, 482 423 89	2U, 482 423 89
Weight (Kg)			17	19	21

Model			DH 1200	DH 1400	DH 1800
Output power (W) RMS	4Ω Load	Double load	1200	1400	1800
	8Ω Load	Double load	800	950	1300
		Bridge	2400	2800	3600
Sensitivity (V)			650mV	710mV	850mV
Input impedance (KΩ)			10	10	10
Frequency response (Hz)			20~20K	20~20K	20~20K
SNR (dB) Pout=1/8Pomax, F=1KHz			> 103dB	> 103dB	> 103dB
Isolation degree @1KHz (dB) Pout=1/8Pomax, F=1KHz			> 83dB	> 83dB	> 83dB
Balance degree(DB) Pout=1/8Pomax, F=1KHz			< 0.5	< 0.5	< 0.5
Distortion degree Pout=1/8Pomax, F=1KHz			0.02%	0.02%	0.02%
Dynamic range (dB)			107	107	107
Intermodulation distortion=1KHz 8Ω			< 0.05%	< 0.05%	< 0.05%
Maximum total power consumption (W) 4Ω/8ΩTHD+N=1%			2500/2400	2900/2800	3700/3600
Input interface			XLR (SPEAKON)	XLR (SPEAKON)	XLR (SPEAKON)
Output interface			XLR (SPEAKON)connect line pillar (BANANA JACK)		
Power input voltage			220Vac /50Hz	220Vac /50Hz	220Vac /50Hz
Fuse			T15AL /250V	T15AL /250V	T15AL /250V
Size (mm)			2U, 482×423×89	2U, 482×423×89	2U, 482×423×89
Weight (Kg)			22.5	24	25

Above technical changes without notice