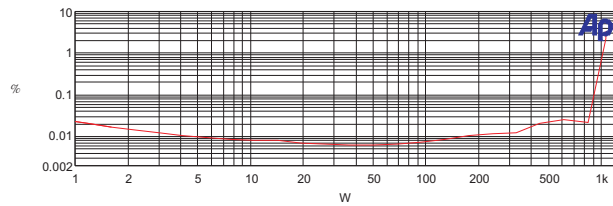


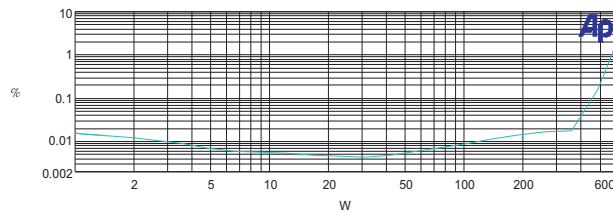
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Yellow	Solid	1	Anlr.Phase	Left	
2	1	Red	Solid	1	Anlr.Phase	Left	
3	1	Magenta	Solid	1	Anlr.Phase	Left	

Phase response: 40Ohm (Magenta), 80Ohm (Yellow) and open load(RED).



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Red	Solid	1	Anlr.TH D+N Ratio	Left	

THD+N vs P o 1 0 0 H z @ 4 0 h m (Red)



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Solid	1	Anlr.TH D+N Ratio	Left	

THD+N vs P o 1 0 0 H z @ 8 0 h m (Cyan)

PROFESSIONAL POWER AMPLIFIER



8.Dimension

Dimension : 480*165*44mm

- OUR COMPANY RESERVE THE RIGHT OF FINAL INTERPRETATION
- IF SOMETHING IN THIS MANUAL DIFFERENT FROM YOUR PRODUCT THE ACTUAL PRODUCT SHALL GOVERN
- SPECIFICATIONS AND THE DESIGN ARE SUBJECT TO POSSIBLE MODIFICATION WITHOUT NOTICE DUE TO IMPROVEMENTS

1. PLEASE READ FIRST

1.1 IMPORTANT SAFETY INFORMATION

WARNING: TO REDUCE RISK OF ELECTRIC SHOCK. DO NOT DISASSEMBLE THIS AMPLIFIER. NO USER SERVICABLE PART INSIDE. PLEASE CONTACT AUTHORIZED SERVICE PERSONNEL WHEN NEED MAINTENANCE.

WARNING: TO REDUCE THE FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

PLEASE UNPLUG THE POWERCORD IF YOU NEED TO FULLY DISCONNECT FROM POWER.

THE POWERPLUG MUST BE READY ANYTIME.

ELECTRICAL ENERGY CAN PERFORM MANY USEFUL FUNCTIONS. THIS UNIT HAS BEEN ENGINEERED AND MANUFACTURED TO ASSURE YOUR PERSONAL SAFETY. IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS.

IN ORDER NOT TO DEFEAT THE SAFEGUARDS, OBSERVE THE FOLLOWING INSTRUCTIONS FOR ITS INSTALLTION, USE AND SERVICING.

- READ THIS INSTRUCTIONS
- KEEP THIS INSTRUCTIONS
- HEED ALL WARNINGS
- FOLLOW ALL INSTRUCTIONS
- DO NOT USE THIS DEVICE NEAR WATER
- CLEAN ONLY WITH A DRY CLOTH
- DO NOT BLOCK THE AIRFLOW
- INSTALL FOLLOW THE USER MANUAL
- DO NOT INSTALL NEAR A HEAT SOURCE
- THE EQUIPMENT SHOULD BE CONNECTED TO POWER OUTLET WITH A GROUNDED PROTECTIVE POWER GRID.
- PROTECT THE POWER CORD FROM BEING WALKED OR PINCHED.
- USE ONLY ATTACHMENT/ACCESSORIES SPECIFIED BY THE MANUFACTURER.
- UNPLUG THE POWERCORD DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL. SERVICING IS REQUIRED WHEN THE APPARATUS HAS BEEN DAMAGED IN ANY WAY, SUCH AS POWERCORD OR PLUG IS DAMAGED, LIQUID HAS BEEN SPILLED OR OBJECTS FALLEN INTO THE APPARATUS. THE APPARATUS HAS BEEN EXPOSED TO RAIN OR MOISTURE, DOES NOT OPERATE NORMALLY, OR HAS BEEN DROPPED.,

1.2 CERTIFICATION NOTICE

WE DECLARE OUR DEVICES ARE COMFORMITY WITH THE FOLLOWING DIRECTIVES AND/OR STANDARDS 2004/108/EC ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

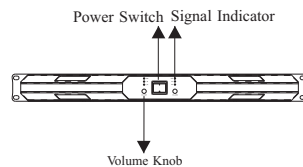
EN55103-1, EN55103-2, EN61000-3-2, EN61000-3-3 AND E4, E5 ELECTROMAGNETIC

2006/95/EC LOW VOLTAGE DIRECTIVES EN 60665 ENVIRONMENT DIRECTIVE

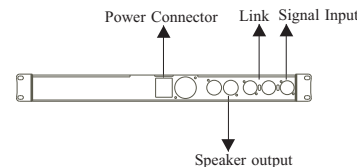
2004/108/EC ELECTROMAGNETIC COMPABILITY DIRECTIVE
 FCC ELECTROMAGNETIC RADIATION DIRECTIVE 15.109
 IEC CISPR Pub.22 ed 6.0 (2008-09) CHAPTER 7.1.1, PART 15.107
 IEC CISPR Pub.22 ed 6.0 (2008-09) CLASS B

2. Front/Rear Panel Function Diagram

Front Panel :



Rear Panel :



3. Product Briefing

UPDM (Unipolar Pulse Density Modulation) amplifier is the latest generation ultra low power less power amplifier scheme. Durable 1RU chassis.

4. Product Highlights

- 90-264VAC Global Power Supply
- Purifying Ground and Singal Source Noise
- Direct Energy Amplifying
- Constant Zero Distortion Power Control
- Dual Reactor Phase Shift Control
- Dynamic Energy Recycling
- Overheat and Clip Soft Protection

5. Specifications

Power	1800W@2.5Ω X2
Total Harmonic Distortion	<0.005%
Signal to Noise Ratio	112dB
Freq. Response	20 Hz - 20 kHz +/-0.25dB
Damping Factor	>1000
Controlled Slew Rate	>50V/us

Input Impedance	30KΩ Balanced
Input Sensitivity	0.775V
DC Remain	<5mV
Operation Range	90V - 264V DC to 200 Hz
Power Factor	>0.95 @ >500 W
Max Output Voltage/Current	100 Vpeak / 50Apeak

6. Protect Function

① Overload Protection

All this series amplifiers has output current protection. Output current will be limited when exceeds the allowed maximum value.

When a channel of a amplifier output current exceed the allowed maximum value (For example, Short circuit). In this case, the amplifier itself will be disabled (mute) for 1000ms. Amplifier will restart after the short circuit back to normal.

② Input Voltage Protection

When input voltage is higher than the upper limit or lower than the lowest limit, PSU will enter protect mode and cut off the power supply.

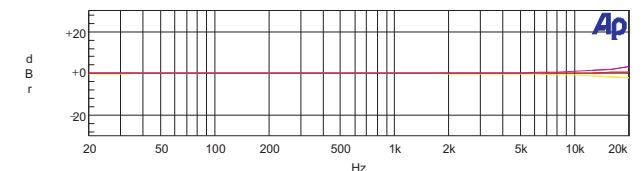
③ Temperature Protection

Complete temperature protection sampling. Monitor both PSU and amplifier simultaneously. Output power will limit when the temperature of the heatsink higher than limit value. Output will cut off when temperature higher than the protect value. Amplifier will restart when temperature return to normal.

7. Typical Test Curve

Audio Precision

01/01/03 01:43:13



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Yellow	Solid	1	Anlr.Level A	Left	
2	1	Red	Solid	1	Anlr.Level A	Left	
3	1	Magenta	Solid	1	Anlr.Level A	Left	

Frequency respons: 4 Ohm (Yellow), 8 Ohm (Red) and open load (Magenta)