

ED-B3-MA-070410-002

Beta three

PROFESSIONAL POWER AMPLIFIER



DEAR CUSTOMERS:

Please carefully read and strictly follow the user's manual when you use UA series professional amplifier. If you have any question, please contact the local dealer.

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1, NOTES

- A High voltage inside the equipment. Do not open the cover. Ask for the help from the professionals when need servicing.
- A Please do not expose the equipment in the rain or moisture.
- A Keep adequate ventilation, do not block the port.
- A Be sure the voltage of this equipment complies with the local industrial voltage.
- Please put off the power plug if unused for a long time.
- A Please connect rated load. Never working under the overload for a long time.

■ Symbols:

- ☐ The equilateral triangle with lightning bolt warns the user of dangerous voltage levels localized within the cabinet.
- ☐ The equilateral triangle with exclamatory mark means the important operation on the user's manual.

2、 FEATURES

UA series is the amplifier with big power and excellent performance. It can meet different audio avenues.

- 1> Big power, dynamic energy;
- 2> Innovative heat sink structure and high quality heat sink fan assure reliable working for a long time;
- 3> "loading impedance temperature-power-running voltage" can be controlled alternately, Speed of Fan is automatic adjusted by temperature. When load is too low or temperature is too high, the equipment can adjust the power supply and lower impedance of power, which improves sound quality and protect the equipment better. The reliability will be improved remarkably;
- 4> Low distortion;
- 5> High slew speed, outstanding sound quality and high transparent;
- 6> Low noise:S/N>108dB(A Weight);
- 7> 20Hz~20KHz <+0/-0.25 dB; wide frequency band;
- 8> Small dimension, 2U rack mounting.
- 9> UA2002, UA1332, UA662, UA332 are specially designed for low loading imedance, and can work for a long time under 2Ω .

$Rated \ Power \\ Rated \ Power \\ Rated \ Power \\ Rated \ Power \\ Parallel \ mono \ mode \\ Parallel \ mono \ mode \\ Ridged \ Ri$				
$Rated \ Power \\ Rated \ Power \\ Parallel \ mono \ mode \\ Parallel \ mono \ mode \\ Ridged \ mono \ mode \\ Parallel \ mono \ mode \\ Ridged \ mono \ mode \\ Ridge$		Storeo mode	8Ω	1000W
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Stereo mode	4Ω	1600W
	Pated Power	Darallal mana mada	8Ω	1000W
Bridged mono mode 8Ω 3200W	Rated Fower	rafaller filotio filode	4Ω	1600W
THD <0.05%(10%Rated power) Intermodulation distortion		Bridged mono mode	16Ω	2000W
Intermodulation distortion		Bridged monomode	8Ω	3200W
distortion Co.1%(60H2//kHz, 10%Rated power)	THD	<0.05%(10%Rated power)		
Phase difference <±15°		<0.1%(60Hz/7kHz,10%Rated power)		
Damping factors >800(8Ω/100Hz) Segregation >75dB S/N >108dB(A-Weight) Total gain 39±0.5dB Difference of Channel gain <0.25dB	Frequency response	20Hz~20kHz(+0/-0.25dB)		
Segregation >75dB S/N >108dB(A-Weight) Total gain 39±0.5dB Difference of Channel gain <0.25dB Input sensitivity 1V Slew speed >100V/μs Input impedance Unbalanced input 10kΩ, Balanced input 20kΩ Input connectors Three pin XLR/6.35mm Output connectors Speakon binding post, NL4 speakon Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Switch of AC, Gain controlling knob for channel A and B Controls on rear panel Parallel/Stereo/Bridge, LF cutting, Grounding, Limit Indicator on front panel Yellow-Bridge, Red-Overload, Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat, Etc Dimensions 483×452×88mm Net weight 30kg Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Voring temperature: -10°C~40°C Storing temperature: -25°C~80°C	Phase difference	<±15°		
S/N >108dB(A-Weight) Total gain 39±0.5dB Difference of Channel gain <0.25dB	Damping factors	>800(8Ω/100Hz)		
Total gain Difference of Channel gain Input sensitivity IV Slew speed Input impedance Unbalanced input 10kΩ, Balanced input 20kΩ Input connectors Three pin XLR/6.35mm Output connectors Speakon binding post, NL4 speakon Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Controls on rear panel Indicator on front panel Amplifier protection Net weight Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Vol. 25dB 1039±0.5dB 20.25dB	Segregation	>75dB		
Difference of Channel gain <0.25dB	S/N	>108dB(A-Weight)		
Channel gain<0.25dBInput sensitivity1VSlew speed>100V/ μ sInput impedanceUnbalanced input 10k Ω, Balanced input 20k ΩInput connectorsThree pin XLR/6.35mmOutput connectorsSpeakon binding post, NL4 speakonCoolingFour fans, stepless shifting, Cooling airflow from front to backControls on front panelSwitch of AC, Gain controlling knob for channel A and BControls on rear panelParallel/Stereo/Bridge, LF cutting, Grounding, LimitIndicator on front panelYellow-Bridge, Red-Overload, Green-SignalAmplifier protectionShort Circuit, Maladjustment of DC, Overload, Overheat ,EtcDimensions483×452×88mmNet weight30kgPower supplyAC 220-230V,50Hz/60Hz,1500VAEnvironment TemperatureWorking temperature: -10°C~40°C Storing temperature: -25°C~80°C	Total gain	39±0.5dB		
Slew speed >100V/μs		<0.25dB		
Input impedance Unbalanced input 10kΩ, Balanced input 20kΩ Input connectors Three pin XLR/6.35mm Output connectors Speakon binding post, NL4 speakon Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Switch of AC, Gain controlling knob for channel A and B Controls on rear panel Parallel/Stereo/Bridge, LF cutting, Grounding, Limit Indicator on front panel Yellow-Bridge, Red-Overload, Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat, Etc Dimensions 483×452×88mm Net weight 30kg Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Working temperature: -10 °C~40 °C Storing temperature: -25 °C~80 °C	Input sensitivity	1V		
Input connectors Three pin XLR/6.35mm Output connectors Speakon binding post,NL4 speakon Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Switch of AC,Gain controlling knob for channel A and B Controls on rear panel Parallel/Stereo/Bridge, LF cutting,Grounding,Limit Indicator on front panel Yellow-Bridge,Red-Overload,Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×452×88mm Net weight 30kg Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Working temperature: -10℃~40℃ Storing temperature: -25℃~80℃	Slew speed	>100V/µs		
Output connectors Speakon binding post,NL4 speakon Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Controls on rear panel Indicator on front panel Amplifier protection Dimensions A83×452×88mm Net weight Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Speakon binding post,NL4 speakon Four fans, stepless shifting, Cooling airflow from to back Switch of AC,Gain controlling knob for channel A and B Parallel/Stereo/Bridge, LF cutting, Grounding, Limit Yellow-Bridge, Red-Overload, Green-Signal Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×452×88mm Net weight 30kg Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Storing temperature: -10°C~40°C Storing temperature: -25°C~80°C	Input impedance	Unbalanced input 10k Ω ,Balanced input 20k Ω		
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Controls on rear panel Parallel/Stereo/Bridge, LF cutting, Grounding, Limit Indicator on front panel Yellow-Bridge, Red-Overload, Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat, Etc Dimensions 483×452×88mm Net weight 30kg Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Working temperature: -10°~40°C Storing temperature: -25°~80°C	Cooling			
Indicator on front panel Yellow-Bridge,Red-Overload,Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×452×88mm Net weight 30kg Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Working temperature: -10°~40°C Storing temperature: -25°~80°C	Controls on front panel	Switch of AC, Gain controlling knob for c	hannel <i>A</i>	and B
Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×452×88mm Net weight 30kg Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Working temperature: -10°~40° Storing temperature: -25°~80°C	Controls on rear panel	Parallel/Stereo/Bridge, LF cutting, Ground	ding,Lim	it
Dimensions $483 \times 452 \times 88 \text{mm}$ Net weight 30kg Power supplyAC 220-230V,50Hz/60Hz,1500VAEnvironment TemperatureWorking temperature: -10° ~40°C Storing temperature: -25° ~80°C	Indicator on front panel	Yellow-Bridge,Red-Overload,Green-Signal		
Net weight 30kg Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Working temperature: -10℃~40℃ Storing temperature: -25℃~80℃	Amplifier protection	Short Circuit, Maladjustment of DC, Overload, Overheat, Etc		
Power supply AC 220-230V,50Hz/60Hz,1500VA Environment Temperature Storing temperature: -10°C~40°C Storing temperature: -25°C~80°C	Dimensions	483×452×88mm		
Environment Working temperature: -10 ℃~40 ℃ Temperature Storing temperature: -25 ℃~80 ℃	Net weight	30kg		
Temperature Storing temperature: -25℃~80℃	Power supply	AC 220-230V,50Hz/60Hz,1500VA		
Environment humidity <90%				
i • • • • • • • • • • • • • • • • • • •	Environment humidity	≤90%		

	Ctores made	4Ω	950W
	Stereo mode	2Ω	1500W
Dated Dawer	Darallal mana mada	4Ω	950W
Rated Power	Parallel mono mode	2Ω	1500W
	Bridged mono mode	8Ω	1900W
	Bridged monomode	4Ω	3000W
THD	<0.05%(10%Rated power)		
Intermodulation distortion	<0.1%(60Hz/7kHz,10%Rated power)		
Frequency response	20Hz~20kHz(+0/-0.25dB)		
Phase difference	<±15°		
Damping factors	>800(8Ω/100Hz)		
Segregation	>75dB		
S/N	>108dB(A-Weight)		
Total gain	35.7 ± 0.5 dB		
Difference of Channel gain	<0.25dB		
Input sensitivity	1V		
Slew speed	>70V/µs		
Input impedance	Unbalanced input 10kΩ,Balanced input 2	:0kΩ	
Input connectors	Three pin XLR/6.35mm		
Output connectors	Speakon binding post,NL4 speakon		
Cooling	Four fans, stepless shifting, Cooling airflow from front to back		
Controls on front panel	Switch of AC,Gain controlling knob for c	hannel <i>A</i>	and B
Controls on rear panel	Parallel/Stereo/Bridge, LF cutting, Grounding, Limit		
Indicator on front panel	Yellow-Bridge,Red-Overload,Green-Signal		
Amplifier protection	Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc		
Dimensions	483×452×88mm		
Net weight	30kg		
Power supply	AC 220-230V,50Hz/60Hz,1500VA		
Environment Temperature	Working temperature: -10℃~40℃ Storing temperature: -25℃~80℃		
Environment humidity	≪90%		

	Staraa mada	8Ω	660W
	Stereo mode	4Ω	1000W
Dated Dawer	Darallal mana mada	8Ω	660W
Rated Power	Parallel mono mode	4Ω	1000W
	Bridged mono mode	16Ω	1330W
	Bridged monomode	8Ω	2000W
THD	<0.05%(10%Rated power)		
Intermodulation distortion	<0.1%(60Hz/7kHz,10%Rated power)		
Frequency response	20Hz~20kHz(+0/-0.25dB)		
Phase difference	<±15°		
Damping factors	>800(8Ω/100Hz)		
Segregation	>75dB		
S/N	>108dB(A-Weight)		
Total gain	37.3 ± 0.5 dB		
Difference of Channel gain	<0.25dB		
Input sensitivity	1V		
Slew speed	>80V/µs		
Input impedance	Unbalanced input 10kΩ,Balanced input 2	.0kΩ	
Input connectors	Three pin XLR/6.35mm		
Output connectors	Speakon binding post,NL4 speakon		
Cooling	Four fans, stepless shifting, Cooling airflow from front to back		
Controls on front panel	Switch of AC,Gain controlling knob for c	hannel <i>A</i>	and B
Controls on rear panel	Parallel/Stereo/Bridge, LF cutting, Grounding, Limit		
Indicator on front panel	Yellow-Bridge,Red-Overload,Green-Signal		
Amplifier protection	Short Circuit, Maladjustment of DC, Overload, Overheat, Etc		
Dimensions	483×375×88mm		
Net weight	18kg		
Power supply	AC 220-230V,50Hz/60Hz,1000VA		
Environment Temperature	Working temperature: -10℃~40℃ Storing temperature: -25℃~80℃		
Environment humidity	≪90%		

	Ctamaa maada	4Ω	660W
	Stereo mode	2Ω	1000W
Dated Dawer	Davallal mana mada	4Ω	660W
Rated Power	Parallel mono mode	2Ω	1000W
	Bridged mono mode	8Ω	1300W
	Bridged monomode	4Ω	2000W
THD	<0.05%(10%Rated power)		
Intermodulation distortion	<0.1%(60Hz/7kHz,10%Rated power)		
Frequency response	20Hz~20kHz(+0/-0.25dB)		
Phase difference	<±15°		
Damping factors	>800(8Ω/100Hz)		
Segregation	>75dB		
S/N	>108dB(A-Weight)		
Total gain	34.2±0.5dB		
Difference of Channel gain	<0.25dB		
Input sensitivity	1V		
Slew speed	>70V/µs		
Input impedance	Unbalanced input 10kΩ,Balanced input 2	.0kΩ	
Input connectors	Three pin XLR/6.35mm		
Output connectors	Speakon binding post,NL4 speakon		
Cooling	Four fans, stepless shifting, Cooling airflow from front to back		
Controls on front panel	Switch of AC,Gain controlling knob for c	hannel A	and B
Controls on rear panel	Parallel/Stereo/Bridge, LF cutting, Grounding, Limit		
Indicator on front panel	Yellow-Bridge,Red-Overload,Green-Signal		
Amplifier protection	Short Circuit, Maladjustment of DC, Overload, Overheat, Etc		
Dimensions	483×375×88mm		
Net weight	15kg		
Power supply AC 220-230V,50Hz/60Hz,1000VA			
Environment Temperature	Working temperature: -10℃~40℃ Storing temperature: -25℃~80℃		
Environment humidity <90%			

$Rated \ Power \ Rated \ Power \ Rated \ Power \ Rated \ Power \ Rated \ Parallel \ mono \ mode \ Ridged \ R$				
$Rated \ Power \\ Rated \ Power \\ Parallel \ mono \ mode \\ Parallel \ mono \ mode \\ Ridged $		Stereo mode	8Ω	330W
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Stereo mode	4Ω	500W
	Pated Power	Parallol mono modo	8Ω	330W
Bridged mono mode 8Ω 1000W	Nateu Fower	rafaller filotio filode	4Ω	500W
THD <0.05%(10%Rated power) Intermodulation distortion		Bridged mono mode	16Ω	660W
Intermodulation distortion		Bridged monomode	8Ω	1000W
distortion Co.1%(60H2//kHz, 10%Rated power)	THD	<0.05%(10%Rated power)		
Phase difference <±15°		<0.1%(60Hz/7kHz,10%Rated power)		
Damping factors >800(8Ω/100Hz) Segregation >75dB S/N >108dB(A-Weight) Total gain 34±0.5dB Difference of Channel gain <0.25dB	Frequency response	20Hz~20kHz(+0/-0.25dB)		
Segregation >75dB S/N >108dB(A-Weight) Total gain 34±0.5dB Difference of Channel gain <0.25dB Input sensitivity 1V Slew speed >60V/μs Input impedance Unbalanced input 10kΩ, Balanced input 20kΩ Input connectors Three pin XLR/6.35mm Output connectors Speakon binding post, NL4 speakon Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Switch of AC, Gain controlling knob for channel A and B Controls on rear panel Parallel/Stereo/Bridge, LF cutting, Grounding, Limit Indicator on front panel Yellow-Bridge, Red-Overload, Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat, Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Voring temperature: -10°C~40°C Storing temperature: -25°C~80°C	Phase difference	<±15°		
S/N >108dB(A-Weight) Total gain 34±0.5dB Difference of Channel gain <0.25dB	Damping factors	>800(8Ω/100Hz)		
Total gain Difference of Channel gain Input sensitivity IV Slew speed Input impedance Unbalanced input 10kΩ, Balanced input 20kΩ Input connectors Three pin XLR/6.35mm Output connectors Speakon binding post, NL4 speakon Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Controls on rear panel Indicator on front panel Amplifier protection Net weight Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Vol. 25dB 1V 20.25dB	Segregation	>75dB		
Difference of Channel gain <0.25dB	S/N	>108dB(A-Weight)		
Channel gain Channel gain Input sensitivity 1	Total gain	34±0.5dB		
Slew speed >60V/μs Input impedance Unbalanced input 10kΩ,Balanced input 20kΩ Input connectors Three pin XLR/6.35mm Output connectors Speakon binding post,NL4 speakon Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Switch of AC,Gain controlling knob for channel A and B Controls on rear panel Parallel/Stereo/Bridge, LF cutting,Grounding,Limit Indicator on front panel Yellow-Bridge,Red-Overload,Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Working temperature: -10°C~40°C Storing temperature: -25°C~80°C		<0.25dB		
Input impedance Unbalanced input 10kΩ, Balanced input 20kΩ Input connectors Three pin XLR/6.35mm Output connectors Speakon binding post, NL4 speakon Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Switch of AC, Gain controlling knob for channel A and B Controls on rear panel Parallel/Stereo/Bridge, LF cutting, Grounding, Limit Indicator on front panel Yellow-Bridge, Red-Overload, Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat, Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Working temperature: -10 °C~40 °C Storing temperature: -25 °C~80 °C	Input sensitivity	1V		
Input connectors Three pin XLR/6.35mm Output connectors Speakon binding post,NL4 speakon Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Switch of AC,Gain controlling knob for channel A and B Controls on rear panel Parallel/Stereo/Bridge, LF cutting,Grounding,Limit Indicator on front panel Yellow-Bridge,Red-Overload,Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Working temperature: -10°~40° Storing temperature: -25°C~80°C	Slew speed	>60V/µs		
Output connectors Speakon binding post,NL4 speakon Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Controls on rear panel Indicator on front panel Amplifier protection Dimensions A83×375×88mm Net weight Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Speakon binding post,NL4 speakon Four fans, stepless shifting, Cooling airflow from to back Switch of AC,Gain controlling knob for channel A and B Parallel/Stereo/Bridge, LF cutting, Grounding, Limit Yellow-Bridge, Red-Overload, Green-Signal Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Storing temperature: -10°C~40°C Storing temperature: -25°C~80°C	Input impedance	Unbalanced input 10kΩ,Balanced input 2	.0kΩ	
Cooling Four fans, stepless shifting, Cooling airflow from front to back Controls on front panel Switch of AC,Gain controlling knob for channel A and B Controls on rear panel Parallel/Stereo/Bridge, LF cutting,Grounding,Limit Indicator on front panel Yellow-Bridge,Red-Overload,Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Working temperature: -10°C~40°C Storing temperature: -25°C~80°C	Input connectors	Three pin XLR/6.35mm		
Cooling airflow from front to back Controls on front panel Switch of AC,Gain controlling knob for channel A and B Controls on rear panel Parallel/Stereo/Bridge, LF cutting,Grounding,Limit Indicator on front panel Yellow-Bridge,Red-Overload,Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Working temperature: -10°C~40°C Storing temperature: -25°C~80°C	Output connectors	Speakon binding post,NL4 speakon		
Controls on rear panel Parallel/Stereo/Bridge, LF cutting, Grounding, Limit Indicator on front panel Yellow-Bridge, Red-Overload, Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat, Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Working temperature: -10°~40°C Storing temperature: -25°~80°C	Cooling			
Indicator on front panel Yellow-Bridge,Red-Overload,Green-Signal Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Working temperature: -10°~40°C Storing temperature: -25°~80°C	Controls on front panel	Switch of AC, Gain controlling knob for c	hannel <i>A</i>	and B
Amplifier protection Short Circuit, Maladjustment of DC, Overload, Overheat ,Etc Dimensions 483×375×88mm Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Working temperature: -10°~40°C Storing temperature: -25°~80°C	Controls on rear panel	Parallel/Stereo/Bridge, LF cutting, Ground	ding,Lim	it
Dimensions $483\times375\times88$ mmNet weight 15 kgPower supplyAC 220-230V,50Hz/60Hz,500VAEnvironment TemperatureWorking temperature: -10° C \sim 40 $^{\circ}$ C Storing temperature: -25° C \sim 80 $^{\circ}$ C	Indicator on front panel	Yellow-Bridge,Red-Overload,Green-Signal		
Net weight 15kg Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Working temperature: -10℃~40℃ Storing temperature: -25℃~80℃	Amplifier protection	Short Circuit, Maladjustment of DC, Overload, Overheat, Etc		
Power supply AC 220-230V,50Hz/60Hz,500VA Environment Temperature Storing temperature: -10°C~40°C Storing temperature: -25°C~80°C	Dimensions	483×375×88mm		
Environment Working temperature: -10°C~40°C Temperature Storing temperature: -25°C~80°C	Net weight	15kg		
Temperature Storing temperature: -25°C~80°C	Power supply	AC 220-230V,50Hz/60Hz,500VA		
Environment humidity <90%				
	Environment humidity	≤90%		

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	Stereo mode	4Ω	330W
	otered mode	2Ω	500W
Rated Power	Parallel mono mode	4Ω	330W
Rated Fower	rafaller filotio filode	2Ω	500W
	Pridged mone mode	8Ω	660W
	Bridged mono mode	4Ω	1000W
THD	<0.05%(10%Rated power)	•	
Intermodulation distortion	<0.1%(60Hz/7KHz,10%Rated power)		
Frequency response	20Hz~20KHz(+0/-0.25dB)		
Phase difference	<±15°		
Damping factors	>800(8Ω/100Hz)		
Segregation	>75dB		
S/N	>108dB(A-Weight)		
Total gain	31.2±0.5dB		
Difference of Channel gain	<0.25dB		
Input sensitivity	1V		
Slew speed	>50V/ µ s		
Input impedance	Unbalanced input 10kΩ,Balanced input 2	20kΩ	
Input connectors	Three pin XLR/6.35mm		
Output connectors	Speakon binding post,NL4 speakon		
Cooling	Four fans, stepless shifting, Cooling airflow from front to back		
Controls on front panel	Switch of AC, Gain controlling knob for of	channel A	and B
Controls on rear panel	Parallel/Stereo/Bridge, LF cutting, Grounding, Limit		
Indicator on front panel	Yellow-Bridge,Red-Overload,Green-Sigr	nal	
Amplifier protection	Short Circuit, Maladjustment of DC, Overload, Overheat, Etc		
Dimensions	483×375×88mm		
Net weight	12.5kg		
Power supply	AC 220-230V,50Hz/60Hz,500VA		
Environment Temperature	Working temperature: -10℃~40℃ Storing temperature: -25℃~80℃		
Environment humidity	≤90%		
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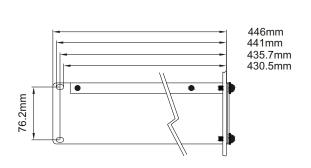
		8Ω	200W
	Stereo mode	4Ω	300W
-			
Rated Power	Parallel mono mode	8Ω	200W
		4Ω	300W
	Bridged mono mode	16Ω	400W
TUD	<0.059/ (109/ Dated names)	8Ω	600W
THD	<0.05%(10%Rated power)		
Intermodulation distortion	<0.1%(60Hz/7kHz,10%Rated power)		
Frequency response	20Hz~20kHz(+0/-0.25dB)		
Phase difference	<±15°		
Damping factors	>800(8Ω/100Hz)		
Segregation	>75dB		
S/N	>108dB(A-Weight)		
Total gain	32±0.5dB		
Difference of Channel gain	<0.25dB		
Input sensitivity	1V		
Slew speed	>50V/ µ s		
Input impedance	Unbalanced input 10k Ω , Balanced input 20k Ω		
Input connectors	Three pin XLR/6.35mm		
Output connectors	Speakon binding post,NL4 speakon		
Cooling	Four fans, stepless shifting, Cooling airflow from front to back		
Controls on front panel	Switch of AC, Gain controlling knob for c	hannel <i>A</i>	and B
Controls on rear panel	Parallel/Stereo/Bridge, LF cutting, Grounding, Limit		
Indicator on front panel	Yellow-Bridge,Red-Overload,Green-Signal		
Amplifier protection	Short Circuit, Maladjustment of DC, Overload, Overheat, Etc		
Dimensions	483×310×88mm		
Net weight	11kg		
Power supply AC 220-230V,50Hz/60Hz,300VA			
Environment Temperature	Working temperature: -10℃~40℃ Storing temperature: -25℃~80℃		
Environment humidity	≤90%		

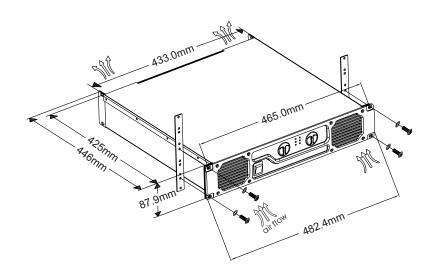
	Stereo mode	4Ω	200W	
	Stereo mode	2Ω	300W	
Rated Power	Parallel mono mode	4Ω	200W	
Nateu Fower	rafaller filotio filode	2Ω	300W	
	Bridged mono mode	8Ω	400W	
	Bridged monomode	4Ω	600W	
THD	<0.05%(10%Rated power)			
Intermodulation distortion	<0.1%(60Hz/7kHz,10%Rated power)			
Frequency response	20Hz~20kHz(+0/-0.25dB)			
Phase difference	<±15°			
Damping factors	>800(8Ω/100Hz)			
Segregation	>75dB			
S/N	>108dB(A-Weight)			
Total gain	29±0.5dB			
Difference of Channel gain	<0.25dB			
Input sensitivity	1V			
Slew speed	>50V/ µ s			
Input impedance	Unbalanced input 10kΩ,Balanced input 2	20kΩ		
Input connectors	Three pin XLR/6.35mm			
Output connectors	Speakon binding post,NL4 speakon			
Cooling	Four fans, stepless shifting, Cooling airflow from front to back			
Controls on front panel	Switch of AC, Gain controlling knob for o	channel A	and B	
Controls on rear panel	Parallel/Stereo/Bridge, LF cutting, Grounding, Limit			
Indicator on front panel	Yellow-Bridge,Red-Overload,Green-Signal			
Amplifier protection	Short Circuit, Maladjustment of DC, Overload, Overheat, Etc			
Dimensions	483×310×88mm			
Net weight	11kg			
Power supply	Power supply AC 220-230V,50Hz/60Hz,300VA			
Environment Temperature	Working temperature: -10°C~40°C Storing temperature: -25°C~80°C			
Environment humidity	≤90%			

	Stereo mode		800W
	Stored filedo	4Ω	1260W
Rated Power	Parallel mono mode	8Ω	800W
Rateur ower	i aranei monomode	4Ω	1260W
	Bridged mono mode	16Ω	1600W
	Bridged menomode	8Ω	2560W
THD	<0.05%(10%Rated power)		
Intermodulation distortion	<0.1%(60Hz/7kHz,10%Rated power)		
Frequency response	20Hz~20kHz(+0/-0.25dB)		
Phase difference	<±15°		
Damping factors	>800(8Ω/100Hz)		
Segregation	>75dB		
S/N	>108dB(A-Weight)		
Total gain	38±0.5dB		
Difference of Channel gain	<0.25dB		
Input sensitivity	1V		
Slew speed	>80V/µs		
Input impedance	Unbalanced input 10kΩ,Balanced input 2	.0kΩ	
Input connectors	Three pin XLR/6.35mm		
Output connectors	Speakon binding post,NL4 speakon		
Cooling	Four fans, stepless shifting, Cooling airflow from front to back		
Controls on front panel	Switch of AC, Gain controlling knob for c	hannel <i>A</i>	and B
Controls on rear panel	Parallel/Stereo/Bridge, LF cutting, Ground	ding,Lim	it
Indicator on front panel	Yellow-Bridge,Red-Overload,Green-Signal		
Amplifier protection	Short Circuit, Maladjustment of DC, Overload, Overheat, Etc		
Dimensions	483×452×88mm		
Net weight	25kg		
Power supply	AC 220-230V,50Hz/60Hz,1200VA		
Environment Temperature	Working temperature: -10℃~40℃ Storing temperature: -25℃~80℃		
Environment humidity	≤90%		

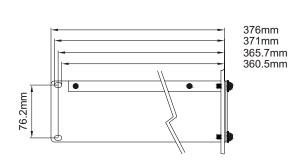
4. INSTALLATIONS

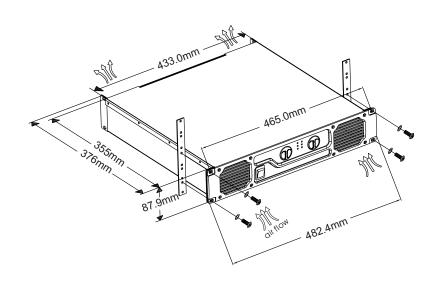
UA2000/UA2002/UA880:





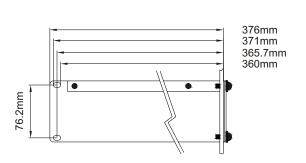
UA1330/UA660:

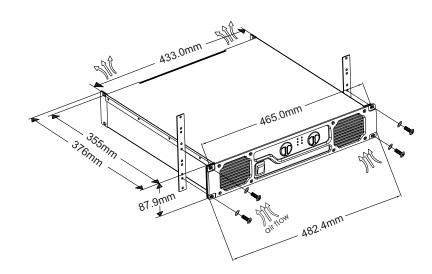




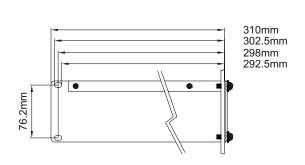
4. INSTALLATIONS

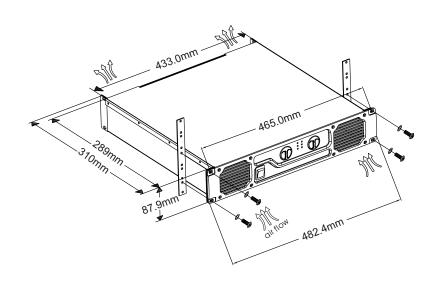
UA1332/UA662:



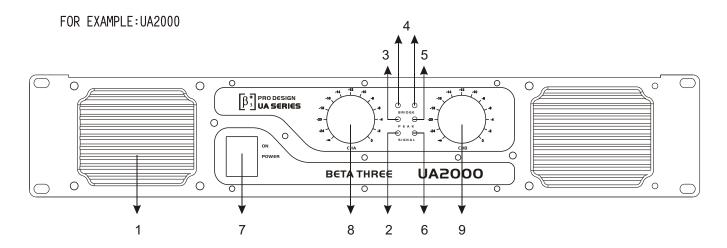


UA332/UA330:





5、 FRONT PANEL

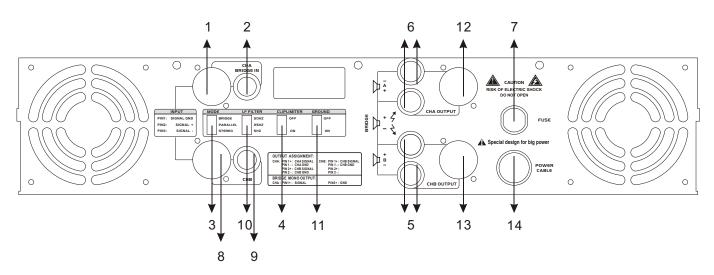


- 1, air input port
- 2, signal indicator of channel A
- 3, overload indicator of channel A
- 4. bridge indicator of channel
- 5, overload indicator of channel B

- 6, signal indicator of channel B
- 7, power switch
- 8, gain adjustment pots of channel A
- 9, gain adjustment pots of channel B

6、 REAR PANEL

FOR EXAMPLE: UA2000



- 1. signal input of channel A(XLR JACK)
- 2, signal input of channel A(1/4" mic jack)
- 3, switch of working modes
- 4、limiters
- 5, signal output of channel B(binding post)
- 6, signal output of channel A(binding post)
- 7、fuse

- 8 signal input of channel B(XLR plug)
- 9, signal input of channel B(1/4" mic jack)
- 10, filter switch
- 11, grounding switch
- 12, signal output of channel A(NL4 JACK)
- 13、signal output of channel B(NL4 JACK)
- 14 cable

7. POWER SUPPLY

▲ Please assure the local voltage comply with the voltage indicated on rear panel before connecting power supply (AC 220-230V,50Hz/60Hz);

Please assure the cable and jack of power supply not damaged before connecting power supply; Put off the plug after power off;

8, INPUT/OUTPUT CONNECTORS

Input connectors
The XLR jack and 1/4" microphone jack in same channel are paralleled;
Input the signal from either connectors and output the signal for connecting next amplifier
If the amplifiers connected are too many, the sound quality may be affected;
Please do not input the signal from two connectors in same channel at the same time.
Output connectors
The binding post and NL4 jack in same channel of "UA series" amplifier are paralleled;
Do not connect loads to the two connectors at the same time;
The red end of binding post is connected with anode of speaker, the black end connected
with cathode of speaker;
Only the load suited with the power and impedance of amplifier can be connected
with the output connectors of amplifier.

9, FUNCTION SETUP AND CABLE CONNECTING

1> Limiter setup:

As the below drawing, when switch is OFF, the limit is off, the limit circuit is out of work, if input signal is too strong, output can cause clip distortion and also raise overload on loudspeaker

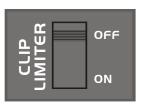
As the below drawing, when the switch is ON, the limit is on, if the input signal is too strong, the limit circuit can control the gain and reduce the distortion, also control the average output power, but it does not affect peak power, protect the loudspeaker and assure the dynamic of music. Note: Please set to "ON" position when using.

2> LF cutting setup:

When LF cutting is at 50Hz, it equals discrete a 50Hz high pass filter on input, the signal lower than 50Hz will be accordingly attenuated, then can reduce the noneffective swing and lower the distortion. Like the right drawing:

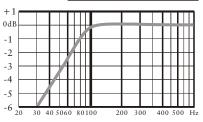
When LF cutting is at 25Hz, it equals discrete a 25Hz high pass filter on input circuit, it just attenuate the signal lower than 25Hz.

Like the right drawing:

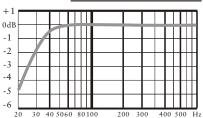












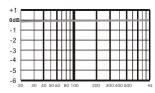
FUNCTION SETUP AND CABLE CONNECTING

When LF cutting is at 5Hz, the audio signal can be amplified really. Like the right drawing:

3> Mode option and signal cable connection, Like the right drawing:

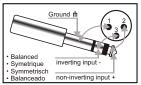
Connecting direction:











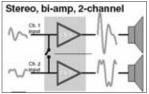


A. Stereo connecting mode:

Put the switch of mode at stereo, like the right picture:

Under the stereo mode, the signal on channel A and channel B is independent, the signal to channel A is just for channel A, the signal to channel B is only for Channel B. Like the right drawing:

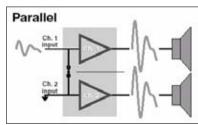




B. Mono paralleled mode:

Put the switch of mode at PARALLEL, like the below picture:

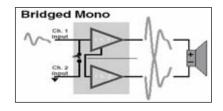
Under the mono parallel mode, the effect of input signal from channel A and channel B is same. The signal on input channel A can be provided to output A, also to output B. The signal on input channel B not only provide to output A, also to output B, But please not input the signal from channel A and B at the same time. Note: The mono parallel mode just means the parallel of input signal. Never parallel the output terminals, Like the right drawing:



C, Bridged mode:

Put the switch of mode at BRIDGE, like the right picture:

Under the bridged mono, signal just can be input from channel A, no voice if input from channel B, the anode of output A is the anode of bridged output, the anode of output B is the cathode of bridged output. like right drawing:





Under the bridge mode, The output voltage is so high enough to make a electronic shock. Please power off the unit before operate it under bridge mode. If need bridge operation under 4Ω please select UA2002

10, OPERATIONS

Please follow the steps during using the equipment

1> Start

- a. Setup the function and connection according to the above function setup and connecting;
- b. Check if the output cable is short circuit and the load is too low;
- c. Check if the local voltage complies with the user's manual;
- d. Be sure the switch of power supply at "0" and the volume is the lowest;
- e. Connect the power supply, turn on the equipment of sound source, pre and effect equipment and assure these equipments work in order;
- fy Turn on the switch of power supply(put it at"1"position);
- g. Adjust the knob of volume clockwise to right position.

2> Off

- a. Adjust the knob of volume unti-clockwise to the lowest;
- b. Turn off the switch of power supply on the front panel(put it at "0" position);
- c. Turn off the pre and effect equipments, sound source equipments;

11. INDICATORS ON FRONT PANEL

- 1>If signal indicator flashes, it means if there is signal output in two channels;
- 2>If peak indicator flashes, it means that the input voltage is too high. You should turn down the volume;
- 3>If the peak indicator always lights, it means faults. The reason is like this: loading is too low, short on loading, temperature is too high. You should check it after power off. Turn on again if no abnormity;
- 4>If bridge indicator lights, it means the amplifier is under the bridged mode.

12 PROTECTION FUNCTION

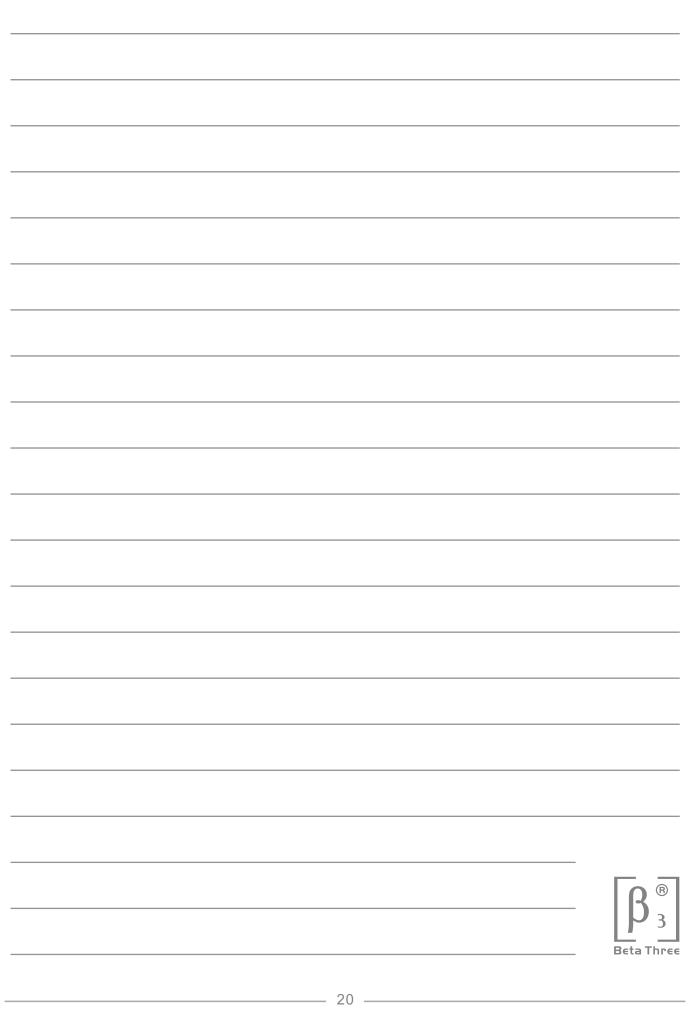
Perfect protection function can prevent the damage for amplifier and speaker caused by short circuit and output DC and overheat.

- 1>Short circuit protection: when the load at the output end is short circuit, the equipment can cut off the signal and protect the equipment;
- 2>Output DC protection: when the equipment has faults and there is DC in output signal, the equipment can cut off output automatically and avoid damage for speaker caused by DC;
- 3>Overheat protection: If the temperature of heat sink is over the allowed temperature, the sensor will cut off the output, avoid damage caused by high temperature and protect the amplifier.

13、 TROUBLES AND TROUBLE SHOOTINGS

Trouble	SN	Troublele shootings
	1	Check if the power plug and jack are connected well.
No voice, Power indicator lights off	2	If the power jack corresponds with AC 220-230V,50Hz/60Hz.
	3	Check if the fuse on rear panel is broken.
No voice, Power indicator	1	Check if the music signal cable is connected well.
Lights, Signal indicator Light off	2	Check if the power of music source is turned on and the volume is turned on.
	3	If the volume pots is turned on.
	1	If the music source output is too big.
CLIP indicator last slighting on, Voice is abnormal	2	If the CLIP LIMITER is at the "ON"position.
on, voice is abnormal	3	Check if there is any short circuit in output connectons and if the load is correct. The restart.
The bass is not sufficient	1	If the LF FILTER on rear panel is at the LF 50Hz or at LF 25Hz, setup the switch at appropriate place.
No voice on one channel under paralleled mono mode	1	Check if the switch of MODE on rear panel is at the PARALLEL, please put it at PARALLEL if it not at the position.
Output of bridge is too low	1	Check the input signal can comply with voltage, please enhance the input signal if not sufficient.
Output of bridge is too low	2	Check if input SIGNAL voltage is suited, please enhance the input SIGNAL if not sufficient.
Burning the fuse when start	1	Check the local voltage is same as the voltage of the equipment.
Others	1	Check if the setup and connection are accordant with the user manual.

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