



REVAMP2060T
Instruction manual

REVAMP2060T manual



Safety first!

- Caution! This professional device needs to be installed by qualified personnel only.
- Please check the carton box for any kind of damage on reception of the goods. In case of a damaged carton, please contact your dealer before opening the carton.
- !!!! Danger !!!! Exposure to high sound levels may cause a permanent hearing loss. Individuals vary considerably to sound pressure level induced hearing loss but nearly everyone will lose some hearing if exposed to high sound pressure levels for a sufficient amount of time. Therefore it is recommended that all persons exposed to equipment capable of producing high sound pressure levels, such as this amplifier, be protected by hearing protection while installing or operating this unit.
- Read all documentation before operating your equipment.
- Keep all documentation for future reference.
- Save the carton and packing material even if the equipment has arrived in good condition.
- Should you ever need to ship the unit, use only the original factory packing.
- Do not spill water or other liquids into or on the unit.
- Make sure power outlets conform to the power requirements listed on the back of the unit.

- Do not use the unit if the electrical power cord is frayed or broken.
- Always operate the unit with the AC ground wire connected to the electrical system ground.
- Set level controls on amplifiers all the way down during power-up to prevent speaker damage if there are high signal levels at the inputs.
- Do not connect the inputs / outputs of amplifiers or consoles to any other voltage source, such as a battery, mains source, or power supply, regardless of whether the amplifier or console is turned on or off.
- Power down & disconnect units from mains voltage before making connections.
- Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
- Do not operate equipment on a surface or in an environment which may distort the normal flow of air around the unit. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically “blown free” of dust.
- Do not remove the cover. Removing the cover will expose you to potentially dangerous volt ages.
- Do not drive the inputs with a signal level higher than that required to drive equipment to full output.

- Do not run the output of any amplifier back into another input.
- In case of mal-function this device should be serviced by qualified service personnel only.
- This unit has NOT been designed for use in mobile applications, such as: mobile discobars, mobile PA systems, Live bands, audio rental systems, ...

**CAUTION**

TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER OR BACK
NO USER-SERVICEABLE PARTS INSIDE
SERVICING ONLY FOR QUALIFIED PERSONNEL

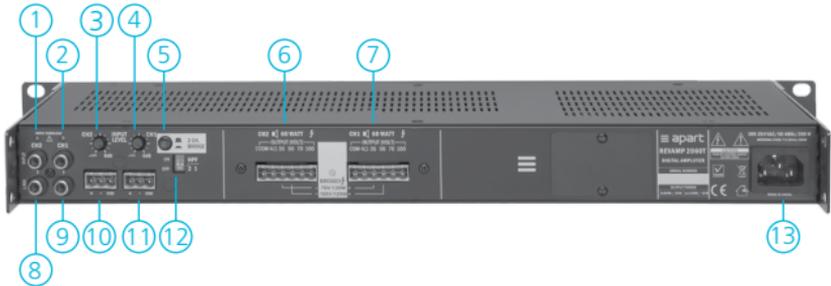


Features

- 1 rack unit high
- High power class-D power amplifier module
- Toroidal 100 volt output transformers
- Bridgeable 2 channel amplifier
- Output power: 2 x 60 W @ 100 V or 70 V
- Bridged output power: 1 x 120 W@100 V or 70 V
- Dynamic output power: 2 x 60 W @ 4 Ω
- RMS power per channel: 2 x 60 W @ 4 Ω (500 ms)
- Dynamic bridged output power: 120 W @ 8 Ω
- Bridged RMS output power: 120 W @ 8 Ω (500 ms)
- Each output can be used in either LowZ or constant voltage mode without changing settings.
- High thermal efficiency
- Signal clip indicators on the rear for fast and easy configuration of the input gain.
- Universal switching power supply unit
- No cooling fan – maintenance free
- Low power consumption
- Integrated APC clip limiter
- Balanced euroblock inputs
- Unbalanced inputs on RCA with pass through
- Input level attenuators on all inputs
- Switchable high pass filter on each input
- Euroblock speaker output connectors with multiple taps: 35 volt, 50 volt, 70 volt, 100 volt and 4 ohm
- Extended speaker and amp protection circuits : over current protect, over temperature protect, input overload
- Individual channel mute buttons and versatile LED status indicators
- Removable rack-ears

Note: the integrated APC clip limiter cannot be bypassed.

Connections



1. **Channel 2 overload led:** when this led lights up, you are overloading the input. Lower the input level immediately to prevent distortion.
2. **Channel 1 overload led:** when this led lights up, you are overloading the input. Lower the input level immediately to prevent distortion.
3. **Channel 2 input gain setting:** adjust the input gain to the output level of your source. Make sure to avoid the clip led lighting up at the strongest input peak level.
4. **Channel 1 input gain setting:** adjust the input gain to the output level of your source. Make sure to avoid the clip led lighting up at the strongest input peak level.
5. **Bridge/2 channel mode selector:** push the selector switch to enable bridge mode operation. The yellow led underneath the

switch lights up when bridge mode has been activated. Always disconnect the speaker(s) before (de-)activating bridge mode ! In bridge mode, the input signal from channel 1 is used. For use with low impedance speakers, the minimum load impedance in bridge mode is 8 ohms: connect – to CH2 -> 4 ohms, connect + to CH1 -> 4 ohms.

6. Channel 2 speaker output on 6 pole euroblock connector.
7. Channel 1 speaker output on 6 pole euroblock connector.
8. Channel 2 unbalanced input and link cinch connector: connect the line level input signal for channel 2 here. Line level is 0 dBV. Input and link connector are internally connected 1 on 1.
9. Channel 1 unbalanced input and link cinch connector: connect the line level input signal for channel 1 here. Line level is 0 dBV. Input and link connector are internally connected 1 on 1. This connector is also used in bridge mode.
10. Channel 2 balanced input on 3 pole euroblock connector.
11. Channel 1 balanced input on 3 pole euroblock connector: this connector is used in bridge mode.
12. HPF on/off dipswitch for channels 1 and 2: set to on position to enable the 250Hz highpass filter (ideal for using 100 volt horn speakers)
13. Mains inlet: connect the mains power cord here.

Operation



1. Removable rack ears for 19" rack mounting.
2. Power switch: after switching on the power, the power led will light up after approx 1 second.
3. Power led
4. Channel 1 status led bar and mute switch: when the mute switch is pressed, the orange "LIMIT – MUTED" led will light up. This led will also light up when the internal limiter is activated to avoid the amplifier from being overloaded by high input signals. The "CLIP – OVERLOAD" led indicates that the power amplifier is clipping: reduce the input signal at once whenever this occurs. The green "SIGNAL - -40dB" led will light up when an input signal is present.

5. Bridged CH 1-2 led
6. Channel 2 status led bar and mute switch: when the mute switch is pressed, the orange "LIMIT – MUTED" led will light up. This led will also light up when the internal limiter is activated to avoid the amplifier from being overloaded by high input signals. The "CLIP – OVERLOAD" led indicates that the power amplifier is clipping: reduce the input signal at once whenever this occurs !!! The green "SIGNAL - -40dB" led will light up when an input signal is present.

Important notice

This amplifier relies on convectional cooling. In almost all situations, overheating will not occur due to the class D amplifier topology. Since there are no cooling fans in the amplifier, make sure the convectional cooling system can work properly. The unit can be built in a 19 inch rack system, but the ventilation holes should not be blocked. Therefore, it is absolutely necessary to allow at least one free rack space or 44 mm above the amplifier. Make sure the ambient temperature is between 0 and 40°C. Operating the unit beyond its normal limits may cause overheating. If necessary, use a forced ventilation system in your mounting rack when the rack holds multiple amplifiers.

The mains fuse is located inside the unit. When the fuse is broken, replace it with a fuse of the same current and voltage rating: T 3.15 A L / 250V. For qualified personnel only!

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Note: Before using the amplifier for the first time, check the impedance of your 100 volt speaker lines using the Apart IMPMET: temporarily disconnect the speaker line from the amplifier and measure the speaker line. Impedance @ 100 volt must be 167 ohms or more. This value corresponds to 60 watts @ 100 volt.

Technical specifications

output power RMS @ 100 volts	2 x 60 watts
output power RMS bridged @ 100 volts	120 watts
output voltage tapings	100 -70 - 50 - 35 watts - 4 ohms
RMS output power @ 4 ohms	2 x 60 watts
dynamic output power @ 8 ohms	2 x 30 watts
RMS output power @ 8 ohms	2 x 30 watts
dynamic output power bridged @ 8 ohms	120 watts
output power RMS bridged @ 8 ohms	120 watts
minimum impedance load per channel	4 ohms
minimum impedance load bridged per channel	8 ohms
output channels	2
line input balanced	2
line input unbalanced	2
Input impedance	22 k Ω
Input sensitivity	0 dBV / 1 V
S/N ratio	>98 dB A weighted
THD ch. 1/2	<0.1% @ max power -6dB / 4 Ω / 1kHz A weighted
Channel separation	> 65 dB @ 1 kHz

frequency response	50 - 20 kHz
cooling system	convectonal
Protection circuits	over current, over temperature, DC offset
Operating temperature range	0 to 40°C
Net weight product	5.7 kg
height- rack units (1U=44 mm)	1 U
depth (build in)	230 mm
depth (incl front)	239 mm
19" (483 mm wide) rack mounting	Yes
power consumption (max)	175 watts
power supply volts	115 - 230 VAC
Power supply technology	SMPS
Power amp topology	Class-D

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