



FULL RANGE CLASS D : Our Full Range Amplifier utilizes advanced (PWM) techniques to maximize efficiency and more power in a compact footprint.

The QS Series amplifiers are designed for mids and highs applications, to power high power stuntwalls, custom door panels or any large system that requires clearer, louder sound for PRO Audio loudspeakers. Looking for a bass amplifier? You may want to consider the RS Series if you need a SPL bass amplifier that delivers a constant deep bass response.

Before connecting your amplifier review all recommendations, **Any connection to the amplifier input or output must be performed only when amplifier is OFF.**

The gauge of the power supply wiring is extremely important to reach the desired amplifier output and for the amplifier's safety. Not using the recommended wire gauge will result in power loss and overheating of cables. **It is important that the power supply cables are the shortest possible length, maximum recommended length is 8 feet.** Always use 100% Cooper cables and good quality connectors. This guarantees the sound's quality and fidelity;

In order to avoid interferences, the signal cables (RCA) must be kept away from the original wiring of vehicle and from any other power supply cable.

Amplifier must be installed in a solid and ventilated area. Do not mount amplifier to the back of a subwoofer box; excess vibration may cause damage to the amplifier.

LED Indicator

ON BLUE LED

-Indicates amplifier is ON, ready to operate..

CLIPPING RED LED Occasionally with Strong Music Notes

-Indicates when amplifier output begins to distort the sound.

The clipping LED is a tool to diagnose when you have reached the limit of the amplifier output.

It will blink if you have exceeded the max output power on the true working impedance of the amplifier or due to the lack of battery power in the system.

-Amplifier must not operate with excessive flashing of the clipping LED. Abuse may cause damage to amplifier or speakers.



Warning!

Never use speakers with impedance under the nominal impedance of the amplifier. Warranty will be voided if ran below their rated ohm load.

This amplifier is designed to perform on music applications (with speakers), any load test (resistant load) is not recommended.

Model	QS16000 1Q
Channels	01
Rated RMS Power at 14.0 V at 1 Ohm	16,000 Watts RMS
Rated RMS Power at 14.0 V at 2 Ohm	10,000 Watts RMS
Rated RMS Power at 14.0 V at 4 Ohm	7,000 Watts RMS
Average Efficiency	78%
Operating Voltage	9 - 16 volts
Musical Current Draw	950A
Minimal Power Wire Input	DUAL (0FC) 00 Gauge wires
Protection fuse or circuit breaker	800 Amps
Minimal Speaker Wire Output	12 Gauge
Frequency Response (-3dB)	20 - 10,000 Hz
Min. Input Sensitivity for Max. Output	200 mV
Signal Input	1 Pair RCA
Signal To Noise	>90dB
Protection System	Low & High Supply Voltage / Shortage on Output / Low Impedance on Output
Heat Sink Type	Heavy Duty Cast Aluminum
Dimensions (Width x Depth x Height)	24.25" x 10.25" x 3"
Weight	21 Lbs

The power rated data are based on equipment from the PRV Audio Group laboratory. Frequency reference of 100Hz to 1kHz with THD+N to $\leq 1\%$ in impedances referring to the indicated in each measurement. The electronic components and the manufacturing process can present manufacturing variations, thus leading to a variation in the measurements made.



PROTECTION RED LED

-Indicates when amplifier is on protection mode. **Review protection mode Below:**

-Red LED Flashes 1 time Short-circuit or impedance lower than supported by the output.

-Red LED Flashes 2 times Excessive temperature. Audio stops and the fans run at maximum speed to cool internal components.

-Red LED Flashes 3 times Supply voltage is less than 9V.

-Red LED Flashes 4 times Power supply voltage is greater than 16V.

Crossover / Filter



HPF / Subsonic

High Pass Filter allows adjustment from 20Hz to 700Hz at 12dB/Oct slope. It determines **the beginning of the amplifier operating frequency.**

Allows the elimination of low frequency sounds, delivering the right frequency range to avoid damage to the components.

LPF

Low Pass Filter allows adjustment from 50Hz to 10,000Hz (FULL) at 12dB/Oct Slope. It determines **the end of the amplifier operating frequency.**

This ensures that only the lowest frequencies are reproduced by the amplifier.

Troubleshooting

AMPLIFIER DOES NOT APPEAR TO BE WORKING

- Check first for: blown fuses, poor or incorrect wiring connections, incorrect crossover setting, switch on & off and gain controls, etc. If protection is present in the system, the amplifier protection mode will go on - Follow LED indicator instructions.

NO SOUND

- Check if RCA cables are properly connected and check if speakers are working.
- Check if LEVEL knob on the amplifier is set to MIN.

POOR BASS RESPONSE

- It is caused by speaker out of phase (reverse polarity). Check if speaker wires (+) & (-) are reversed.

GROUND NOISE

- It is caused by poor grounding of either the PRV amplifiers, other amplifiers in the system, head unit, battery, alternator, or other components in the system.

- PRV amplifiers are engineered to be fully compatible with all manufacturers' head units. Some head units may require additional grounding to prevent noise from entering the audio signal. If this occurs then we recommend to repair or replace the head unit.

- In order to avoid additional ground noise: **DO NOT** loop the ground wires and avoid using several ground wires from different points. Remove paint/rust from chassis, secure tight ground terminal and protect from oxidation, insulating with paint or electrical silicone.

Warranty

PRV Audio products are guaranteed for a period of ONE (1) YEAR from the date of original purchase against any manufacturer's defects in material and workmanship under normal use. This warranty protects only the original purchaser of PRV Audio products purchased from an Authorized PRV Audio Dealer.

Visit our website for technical assistance or to open a warranty claim

www.prvaudio.com/warranty-center

This warranty does not extend to damage resulting from, but not limited to:

Improper installation, product modification, misuse and neglect, abuse (Items returned repeatedly for the same damage may be considered abuse), damage resulting from attempted repairs by unauthorized repair centers or individuals, damage incurred during shipment, blown outputs or power supplies in amplifiers from overdriving or under voltage due to ignoring the LED Clipping Indicator, excessive vibration damage in amplifiers due to improper installation, using an aluminum wire and/or any other wire that is not recommended in the owner's manual on a high-current amplifier. Installation and removal costs of the products associated with obtaining a warranty claim, product damaged in an accident, damages due to criminal activity, by acts of God (lightning, flooding, etc.), products with the serial number and/or warranty seal removed or damaged.