





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.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION: Risk of electrical shock — DO NOT OPEN!

CAUTION: To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance, read the operating guide for further warnings.



Este símbolo tiene el propósito, de alertar al usuario de la presencia de “(voltaje) peligroso” sin aislamiento dentro de la caja del producto y que puede tener una magnitud suficiente como para constituir riesgo de descarga eléctrica.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la información que viene con el producto.

PRECAUCION: Riesgo de descarga eléctrica ¡NO ABRIR!

PRECAUCION: Para disminuir el riesgo de descarga eléctrica, no abra la cubierta. No hay piezas útiles dentro. Deje todo mantenimiento en manos del personal técnico cualificado.

ADVERTENCIA: Para evitar descargas eléctricas o peligro de incendio, no deje expuesto a la lluvia o humedad este aparato. Antes de usar este aparato, lea más advertencias en la guía de operación.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur la présence d'une tension dangereuse pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans le paragraphe signalé.

ATTENTION: Risques de choc électrique — NE PAS OUVRIR!

ATTENTION: Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confiez l'entretien et la réparation de l'appareil à un réparateur Peavey agréé.

AVERTISSEMENT: Afin de prévenir les risques de décharge électrique ou de feu, n'exposez pas cet appareil à la pluie ou à l'humidité. Avant d'utiliser cet appareil, lisez attentivement les avertissements supplémentaires de ce manuel.



Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

VORSICHT: Risiko — Elektrischer Schlag! Nicht öffnen!

VORSICHT: Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden könnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

ACHTUNG: Um einen elektrischen Schlag oder Feuergefahr zu vermeiden, sollte dieses Gerät nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electrical products, basic cautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding plug. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Never break off the ground pin. Write for our free booklet "Shock Hazard and Grounding." Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational and Health Administration (OSHA) has specified the following permissible noise level exposures:

Sound Duration Per Day In Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

SAVE THESE INSTRUCTIONS!

Introduction

Thank you for purchasing the powered version of the Impulse® 100. The 100P features a biamped power section that provides 200 Watts peak dynamic power for the woofer, and 70 Watts peak dynamic power for the compression driver tweeter, both with Peavey's DDT™ compression. Offering a 10" heavy-duty, long-throw woofer and the 14XT™ compression driver, the 100P provides line-level balanced inputs with volume control and loop-thru jacks.

Impulse 100P

- Bi-amplified powered system with 200 W total power
- Both power amps have DDT compression
- 10" premium heavy-duty, long throw woofer
- 14XT 1.4" titanium compression driver
- Peak SPL in excess of 120 dB with music!
- 1/4" TRS and M/F XLR line-level balanced inputs
- Molded-in horn has exceptionally smooth response and pattern control
- Loop Out/In jacks allow link-up of multiple units
- Top handgrip



PANEL DESCRIPTION

(1) FUSE

The unit is AC power line fuse protected from overloads and fault conditions with an ABC-type fast-blow 5 Amp fuse. In the rare event of a fuse blowing: first make sure the unit is unplugged and the power switch is in the OFF position, then replace the blown fuse ONLY with a fast-blow 5 Amp 250V AC rated fuse. Be sure to fully seat and close the replacement fuse and fuse holder cap. Reconnect the unit to the AC power line, and with the volume turned completely down (fully CCW), turn on the power switch. If the unit blows the fresh fuse, DO NOT continue to replace fuses, but have the unit checked by a qualified service technician.

(2) IEC POWER CORD CONNECTION

The removable AC power cord plugs into this socket to supply AC line voltage to the power switch.

(3) ON-OFF SWITCH

This switch supplies AC power to the system electronics when switched to the ON position.

(4) POWER LED

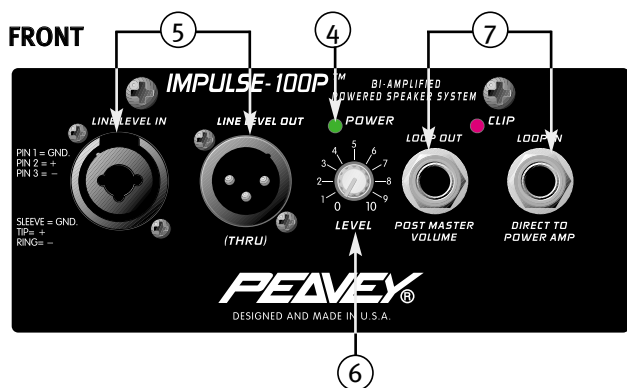
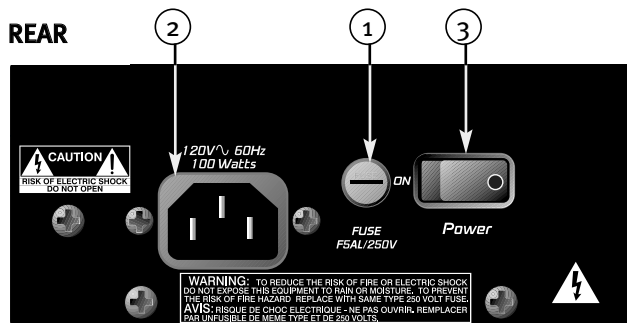
Illuminates when the preamp electronics receive power, and should illuminate when the On-Off Switch is in the ON position and the AC power cord is connected and “plugged in to the wall outlet.”

(5) PRIMARY INPUTS/OUTPUTS

The input and output jacks are in parallel to allow the audio input signal to be daisy-chained to other devices. The “output” level is the same as the “input” level and there is no isolation between the various jacks. The input is of the medium impedance balanced type. Jack (5a) is a combo female XLR and 1/4" RTS connector, and jack (5b) is a male XLR.

(6) VOLUME

Controls the gain (level) of the Impulse® 100P system. When used with the Primary Input In/Out jacks (5), it is used to directly set the system output level



(7) LOOP-THRU JACKS

Loop Out takes the signal after the balanced inputs and the volume control and allows one to send this signal to another Impulse® 100P via its Loop In Jack.

These are unbalanced high Z jacks, so do not run the cable very far.

OPERATING INSTRUCTIONS

CAUTIONS



The unit must be disconnected from the AC power source before any work is done on it. Refer all servicing to qualified service personnel.

The heat sink on the back plate can become hot to the touch. Do not block or cover the heat sink from ventilation.

Be sure to keep the microphone away from the front of the speaker after switching the mic input on, and during level setting of the microphone, or very loud feedback will occur! Damage to the system is likely if this occurs!



DO NOT connect the inputs of the Impulse 100P to the output of a power amplifier; the inputs are meant to be driven from a line-level strength signal.

DO NOT remove the protective metal grille.

DO NOT use the INPUTS/OUTPUTS jacks as mixers by trying to run more than one signal source at a time into them. The INPUTS/OUTPUTS jacks (5) are all hard-wired together to allow use of any of the connector types as an input, and to allow a further send or “daisy-chaining” of the input signal to some other audio device (such as another Impulse 100P). Attempting to run two different signals directly into the Impulse 100P could damage the outputs of the source units. Use a mixer to combine two or more signals into a single signal sent to the Impulse 100P input.

WARNING: The Impulse 100P is extremely efficient and powerful! This sound system can permanently damage hearing! Use extreme care setting the overall maximum loudness!

The apparent sound level of the Impulse 100P can be deceiving due to its clear, clean sound output. The lack of distortion or obvious distress can make the sound level seem much lower than it actually is. This system is capable of SPLs in excess of 120 dB at 1 M from the speaker!

USE OF THE IMPULSE 100P



FLYING THE IMPULSE 100P

Caution: The suspending or flying of the Impulse 100P must be done by a certified structural engineer.

Important Safety Information for the Mounting Peavey Impulse 100P speaker systems.

Caution: Before attempting to suspend these speaker models, consult a certified structural engineer. Speaker can fall from improper suspension, resulting in serious injury and property damage. Other enclosures may not be suspended below one, nor should additional weight be suspended from one of these units. Use only the correct mating hardware. All associated rigging is the responsibility of others.

Always use all four inserts of a given group as a set; NEVER use just one insert to fly a cabinet! The four insert groupings are a top group of four and a bottom group of four, some models have a group of four on the rear plane of the cabinet.

Maximum enclosure angle from vertical hang: 30°

Always use a suitable safety chain or wire rope, looped through the top handle, and firmly attached to a suitable structural member as indicated by a certified structural engineer.

The recommended range of torque for the mounting bolt is 3 to 3 1/2 foot/lbs of torque. DO NOT OVERTIGHTEN! If an insert spins, it has been damaged, and the cabinet can not be flown!

Never transport the cabinet while mounted on an array bracket, or other mounting bracket. This may unduly stress the mounting inserts.

WARNING! (note to structural engineer)

For the Impulse® 100P the thread insertion depth of the end of the mounting bolt should not be more than 5/16" past the surface of the cabinet.

If these thread insertion depths are exceeded, then the inserts may be damaged or unseated from the cabinet, severely compromising the mounting integrity of the cabinet!

The correct mounting bolt diameter and threads per inch are: 1/4" x 20. Use of a grade five bolt is recommended.

GETTING AC POWER TO THE IMPULSE 100P

The Impulse 100P comes with an 8 foot IEC connection AC power cord. It is likely that some sort of extension cord will be used with this powered speaker system, so make sure that the extension cord is no longer than necessary, and is of a sufficient current capacity to maintain safety. Extension cords no longer than necessary and of the largest current capacity available will maximize the power output capability of the Impulse 100P's internal amplifiers. For best results, do not power anything else from the extension cord used to power the Impulse 100P, in order to minimize the voltage drop that all extension cords cause. Running just one extension cord back to the wall plug for the entire sound system is not the way to maximize sound system performance.

The third wire ground plug on the AC plug should NEVER be removed or broken off; this seriously compromises safety.

USE OF IMPULSE 100P WITH A SUBWOOFER

The built-in pole adapter allows use with the Peavey SP Subcompact 18X, and the accessory pole that it is designed to use, Peavey part #00326540.

The pole used is 36 3/16" long, and has a nominal diameter of 1 3/8".

GETTING A SIGNAL TO THE IMPULSE 100P

The Impulse 100P has a variety of ways to input a signal to the system.

The balanced line level input(s) allow the use of a 1/4" phone plug, either a standard single-ended (tip-sleeve) plug, or a balanced RTS (ring-tip-sleeve) type plug OR either a male or female XLR plug. Do not connect cables to the jacks while the units are on and the volume is turned up!

While the standard single-ended 1/4" phone plug will work well, and the balanced input circuitry will provide some interference rejection, a balanced cable using either the balanced RTS 1/4" phone plug or the XLR plug will provide superior interference rejection and performance. Sometimes, with difficult interference problems, it will be helpful to lift the shield ground on a balanced cable at the Impulse 100P end only. Check any input changes carefully, always turning the volume control down before plugging and unplugging cables.

Use of high-quality premium cables is recommended for the Impulse® 100P, as these usually have better shielding and materials, and will provide greater long term reliability. It is usually a good idea to leave some slack at the input to the Impulse 100P and to also tape the cables down or run them under a cable guard to avoid anyone tripping over them or pulling the Impulse 100P over when stand mounted.

VOLUME CONTROL ADJUSTMENT

The Impulse 100P is equipped with a volume control to facilitate use in many different applications. With the volume control adjusted fully CW, gain is at maximum and the input sensitivity is 0.5 V RMS for full rated output. When driving the Impulse 100P from a mixer, it may be advantageous to reduce the input sensitivity by turning the volume control to the halfway point. The Impulse 100P will now more closely match a typical power amp input that the mixer operator is used to.

If the mixer board indicates clipping of its output signals, then all of the Impulse 100P power capability is not being utilized cleanly. Clipping the signal before it gets to the Impulse 100P is not optimal. In that case, reduce the mixer output level, and turn up the volume control on the Impulse 100P.

The amplifiers in the Impulse 100P are equipped with DDT™, with an LED indicator to show DDT has engaged. If the sound seems heavily compressed, check this indicator, and if it is indicating more than occasionally, then the drive level from the mixer (or the volume control on the Impulse 100P) needs to be reduced.

When first turning on the sound system, turn on all upstream electronics first, then the Impulse 100P with its volume control fully CCW (all the way down). Begin checking levels with the mixer output level controls all the way down, and bring them up slowly with the Impulse 100P volume control set to the desired setting (1/2 way up recommended to start).

USE OF MULTIPLE IMPULSE 100Ps (or other Impulse series powered products)

The provision of multiple parallel inputs allows the inputs of the Impulse 100P to be “daisy-chained” from one to the other. Run the first cable from the mixer to the first Impulse 100P, then hook a cable from one of the first Impulse 100P's inputs to the second Impulse 100P's input. This can be continued for several units, depending on how long the cables are, and the total capacitance of all the cables. With a low source impedance, such as a typical mixer output, and typical balanced cables, 2 or 3 Impulse 100Ps can be daisy-chained from one output using 30' or 40' cables without obvious loss of high frequencies.

The Loop-Thru jacks (7), can also be used to connect one other Impulse 100P or one other Impulse 1000 series powered unit, and conveniently control volume from just one of the units. Connect a well shielded 1/4" to 1/4" phone plug patch cord from the Loop Out jack one unit that has the input connected to the signal source, and then plug this cable into the other unit's Loop In jack. The volume control of the first unit now controls the volume for both identically.

Do not connect cables to the jacks while the units are ON and the Volume is turned up!

APPLICATIONS

The Impulse 100P has a variety of applications such as sound reinforcement, public address, side fill system, or musical playback. With the optional monitor stand kit, the Impulse 100P makes an excellent stage monitor.

A typical signal source for the line-level inputs (5) of the Impulse 100P would be a sound reinforcement mixing console (mixer), or the output from a CD player, Minidisc player, or tape deck.

TROUBLESHOOTING

No Output at All

First, make sure the unit has AC power and is turned on. If so, the Power LED (4) should be illuminated. If it is not, check that the On-Off switch (3) is in the "On" position, check the IEC power cord connection (2), making sure it is fully engaged and seated. Make sure the AC line cord is plugged into a working AC outlet, and last, check the fuse (2) {see the REAR PANEL/Fuse section for safety instructions}.

Then, make sure that the inputs of the Impulse® 100P are getting a signal by plugging the cable run into the Impulse 100P's inputs to some other device capable of determining this (for example, a power amp and speaker).

If there is still no output, then be sure the volume control has been turned up to a reasonable level (1/3 to 1/2 way).

Has the Impulse 100P been in direct sunlight or excessive heat? If so, it may have triggered the thermal protection. Turn off the unit, and cool as best as the situation allows (DO NOT use liquids for this purpose!)

If there is still no output, it may help to read the owner's manual completely.

Hum or Buzz

This can be AC outlet related. Try plugging the Impulse 100P into a different AC outlet. Sometimes, if a different circuit (breaker) is used for the mixer and the Impulse 100P, it can cause hum problems.

Check to make sure that shielded cables have been used to get the signal to the Impulse 100P's inputs. Speaker cables with 1/4" or XLR plugs will be very prone to hum.

Check to make sure light dimmers are not on the same circuit as the Impulse 100P or the mixer (or any source devices). If light dimmers are in use, then it may be necessary to turn them full on or fully off to eliminate or reduce hum to tolerable levels. This is an AC wiring/light dimmer interference problem, and not the fault of the Impulse 100P.

The third wire ground plug on the AC plug should NEVER be removed or broken off, this seriously compromises safety.

Distorted or Fuzzy Sound

First, make sure the mixer (or signal source) is not clipping or being overdriven. This can sometimes occur when the volume control (6) on the Impulse 100P has been set too low (too far CCW), and it takes a lot of signal to drive the unit to full power.

Make sure the input plugs are fully seated in the input jacks (5) on the rear panel of the Impulse 100P.

Check to see that the proper inputs are being used (5), and not the Loop Thru input (7), for line level signals. Make sure that a power amp has not been plugged into the input jacks of the Impulse 100P.

If an extension cord is being used to provide the AC power to the unit, is it of sufficient current capacity and not also being used to supply power to any other units? See "GETTING AC POWER TO THE IMPULSE 100P" for details.

The Impulse 100P has built-in EQ to extend and smooth the natural response of the speakers in the system. Bass boost and HF EQ have been applied, and the system has a nominally flat response, and should require little, if any, additional EQ. If excessive additional bass boost or HF boost have been added externally to the Impulse 100P, it may cause premature overload at high SPLs. Try backing off of any external (mixer, rack equalizer) EQ and see if that clears up any tendency to distort.

Finally, realize that even though the Impulse® 100P is a very powerful and high output unit, it does ultimately have limits, and it may need additional powered units (or a subwoofer) to provide enough sound output or coverage. In this case, try turning the mixer levels down a little to see if that clears things up.

If, after checking all the listed things to check, and anything else you can think of to check safely, and the system still exhibits problems, carefully note all conditions and check with your Peavey dealer for advice.

CARE and MAINTENANCE

Your Impulse 100P is a sturdy and durable product, which will provide years of reliable use if properly cared for. Use common sense and read the safety warnings to avoid hazardous operating conditions.

The unit must be disconnected from the AC power source before any work is done on it. Refer all servicing to qualified service personnel.

Sunlight/Heat

Avoid prolonged exposure to direct sunlight, as this may cause the unit to overheat and thermally shut-off. Excessively hot operating conditions can also cause a thermal shut-down.

Do not store in extremely hot or cold conditions, or extremely high humidity. Always allow unit to come to room temperature before use.

Cleaning

Never clean the Impulse 100P while plugged in or turned on! When the unit has been fully disconnected from AC power sources, a dry cloth can remove soil or other dirt. Never use strong solvents on the Impulse 100P, as they could attack the polymer that the cabinet is made from. Do not allow ANY fluids to drip inside the Impulse 100P!

Touch Up

If the Impulse 100P cabinet should become scratched or abraded, it can be touched up using a black permanent marker. First, if the area to be touched up is larger than a short scratch, rub it lightly with an un-soaped plastic scrub pad. Wipe the scratched or abraded area a little at a time with the black permanent marker, and wipe away the surplus with a lint-free cloth. For an overall finish enhancement and protective coating, use gloves to apply either WD-40® or Armour-All® protectant to the surface of the plastic cabinet only. Note that the cabinet will be slippery after these treatments, rub them down vigorously with a dry lint-free cloth to minimize this.

If the grill should become discolored or show signs of a white coating, you can use a cleaner such as 409® or Fantastic® to clean this off of the grille. Use a clean cloth that is slightly dampened with the cleaner, and rub it across the front surface of the grille.

Check for Secure Hardware

After the first few months of use, and periodically thereafter, check the hardware of the Impulse 100P for tightness, including the rear panel screws, and the screws that hold the baffle and rear cabinet together. The unit is subject to a great deal of vibration, and this could cause them to be less than tight with use.



DESCRIPTION

The Peavey Impulse® 100P is a powered bi-amplified two-way speaker system engineered to provide the highest levels of performance in a compact powered loudspeaker. Capable of over 120 dB peak SPLs, this system can pump out a huge amount of sound. The enclosure utilizes high-impact polypropylene in an injection-molded plastic trapezoidal form, with a coated perforated metal grille to offer a cosmetically elegant yet durable, powered speaker system.

This two-way powered system is comprised of a 200 W dynamic peak power amplifier driving a 10" heavy-duty long-throw woofer with treated cone and dust cap. The 14XT™ compression driver is driven by a 70 W peak dynamic power amplifier, and features a 1.4" titanium diaphragm, and is coupled to an extremely smooth and well controlled constant directivity horn, with a coverage pattern of 90° by 45°, that is molded integrally into the enclosure.

Balanced inputs provided to the preamp/EQ electronics are one combo female XLR, and 1/4" RTS phone jack, and one male XLR, all connected in parallel. The power amplifiers providing the bi-amplification are low-distortion units providing 150 W RMS into the nominal 8 Ohm load of the woofer, and a 50 W RMS into the nominal 8 ohm load of the tweeter. They were selected for their reliability and superb musical performance capability. Both amplifiers feature our patented DDT™ compression which virtually eliminates audible power amplifier clipping.

Molded-in handle provides ease of transport, while multiple mounting points (top and bottom) for the Peavey Versamount™ provide for maximum utility.

Architectural and Engineering Specifications

The powered loudspeaker system shall have a frequency response from 80 Hz to 20 kHz. The peak SPL with inaudible distortion shall reach 120 dB with music as a source, when measured at a distance of 1 m and driven to full output capacity. The system shall utilize a 10" heavy-duty, long throw woofer and a 14XT™ compression driver tweeter. The nominal radiation pattern shall be 90° in the horizontal plane, and 45° in the vertical plane.

The powered bi-amplified loudspeaker system shall have a group of medium impedance input connectors consisting of one combo female XLR and 1/4" RTS phone jack and one male XLR on the rear panel, all connected in parallel. A Loop Out and a Loop In jack shall be provided. A volume control will be located next to the input jack group.

The system power amplifiers shall have an unfiltered frequency response of 10 Hz to 30 kHz which deviates no more than +0, -1 dB up to rated power, a damping factor greater than 100 @ 1 kHz into 8 Ohms, hum and noise better than 90 dB below rated power, and THD and IMD of less than 0.1%. The woofer amplifier shall be capable of 150 W into a 8 Ohm nominal load, and the tweeter amplifier shall be capable of 50 W output into a 8 Ohm load, and both shall incorporate independent DDT™ compression.

The input signal shall be electronically divided into high frequencies and low frequencies by a staggered pole 3rd order slope line-level crossover at 2 kHz. The low frequencies shall be processed to provide bass boost, subsonic filtering and overall response shaping, and the high frequencies shall be equalized for constant directivity horn EQ and response shaping.

The enclosure shall be constructed of injection-molded polypropylene of 1/4" nominal thickness with a UL flame rating, and reinforcing ribs internally. A handgrip shall be molded-in on the top rear edge.

A vinyl coated perforated metal grille shall be provided for woofer protection. The cabinet shall incorporate four tall sturdy rubber feet for floor standing use, and four mounting point inserts, on the top and bottom each, for flying use.

The outside dimensions shall be: 18.88" tall (17.63" rear) by x 14.00" wide (8.25" rear) by x 13.13" deep, and the weight shall be 35 lbs. Power requirements shall be: 100 Watts Nominal, 120VAC, 60 Hz Domestic and 240 VAC, 50 Hz (European). The loudspeaker system shall be called a Peavey Impulse® 100P.

Frequency response

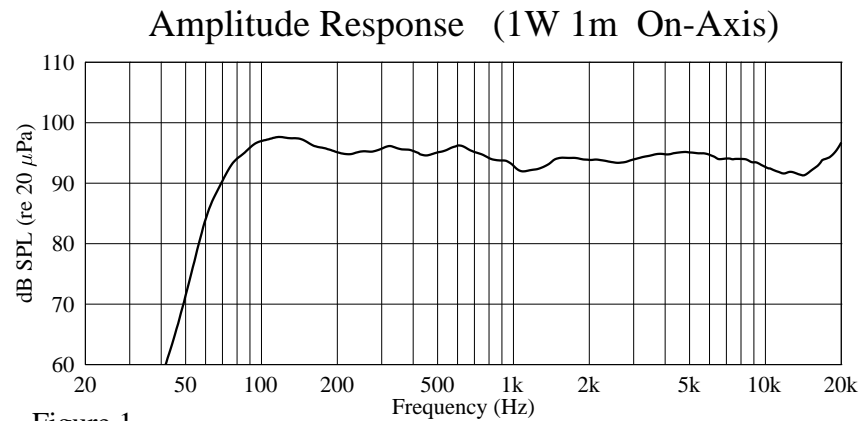


Figure 1

Peavey Impulse® 100P

SPECIFICATIONS

Enclosure:

Peavey Impulse 100P (domestic)

Frequency response:

80 Hz to 20kHz

Low frequency limit (-3 dB point):

80 Hz

Useable low frequency limit (-10 dB point):

63 Hz

Internal power amplifiers (@ 120 VAC line):

Woofer - 200 Watts peak dynamic power
150 Watts @ less than 0.1% distortion
Tweeter - 70 Watts peak dynamic power
50 Watts @ less than 0.1% distortion

Nominal Sensitivity (1 W @ 1 M, swept sine input in anechoic environment):

96 dB

Maximum sound pressure level:

120 dB music peak

Nominal radiation angles:

90° horizontal by 45° vertical

Transducer Complement:

10" premium heavy-duty, long-throw weather-resistant woofer, and 14XT™ 1.4" titanium diaphragm compression driver tweeter

Box tuning frequency (Fbox):

76 Hz

Electroacoustic crossover frequency:

2000 Hz

Crossover type:

Internal electronic two-way crossover with CD horn EQ, level matching, bass boost and subsonic filtering.

Crossover Slopes:

18 dB/octave (3rd order) low pass, 18 dB/octave (3rd order) high pass, both with staggered poles and driver EQ. Unit has horn spatially aligned with woofer, so there is no need for phase alignment or time delay of the signals.

Electronic input impedance (nominal):

10 k Ohms unbalanced, 20 k Ohms balanced

Input connections:

One combo female XLR/ 1/4" phone jack and one male XLR all providing balanced operation, in parallel. Also has a ??" phone jack based loop-thru that allows other Impulse 100P units to be linked to a single unit for signal source and volume control.

Enclosure materials and finish:

Injection-molded high-impact polypropylene of a nominal thickness of 1/4" with internal ribbing and bracing, and with textured finish. Molded material is black.

Mounting:

Subwoofer stand mounting via molded-in mount, flying via Versamount™ 35 (top or bottom of cabinet) and four rubber feet for floor use.

Dimensions:

18.88 in. (47.9 cm) tall (17.63 in./ 44.8 cm in rear) by x 14.00 in. (35.6 cm) wide (8.25 in./ 21.0 cm in rear) by x 13.13 in. (33.3 cm) deep

Optional accessories:

Impulse 100 floor monitor kit

Net weight:

35 lbs.

Shipping weight:**Additional Remarks:**

Also available as a passively crossed-over unit.

ELECTRONICS AND AMPLIFIER SPECIFICATIONS:**Electronic input impedance (nominal):**

Primary balanced input: 10 k Ohms unbalanced and 20 k Ohms balanced

Loop thru input:

High-Z

Infrasonic filter protection:

36 dB/octave roll-off

Nominal amplifier frequency response:

+0, -1 dB from 10 Hz to 30 kHz

Hum and Noise:

Greater than 90 dB below rated power

DDT™ dynamic range:

Greater than 14 dB

THD and IM:

Typically less than 0.1 %

Damping factor:

Greater than 100 @ 1000 Hz, 8 Ohms

Power requirements of Impulse 100P System (domestic):

Nominal 100 Watts, 120 VAC, 60 Hz

PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

EFFECTIVE DATE: JULY 1, 1998

What This Warranty Covers

Your Peavey Warranty covers defects in material and workmanship in Peavey products purchased and serviced in the U.S.A. and Canada.

What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Peavey Dealer.

Who This Warranty Protects

This Warranty protects only the original retail purchaser of the product.

How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

Product Category	Duration
Guitars/Basses, Amplifiers, Pre-Amplifiers, Mixers, Electronic Crossovers and Equalizers	2 years *(+ 3 years)
Drums	2 years *(+ 1 year)
Enclosures	3 years *(+ 2 years)
Digital Effect Devices and Keyboard and MIDI Controllers	1 year *(+ 1 year)
Microphones	2 years
Speaker Components (incl. speakers, baskets, drivers, diaphragm replacement kits and passive crossovers) and all Accessories	1 year
Tubes and Meters	90 days

[*Denotes additional warranty period applicable if optional Warranty Registration Card is completed and returned to Peavey by original retail purchaser within 90 days of purchase.]

What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for warranty service, the consumer must pay initial shipping charges. If the repairs are covered by warranty, Peavey will pay the return shipping charges.

How To Get Warranty Service

- (1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Peavey Dealer or Authorized Peavey Service Center.
OR
- (2) Ship the defective item, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301 or Peavey Canada Ltd., 95 Shields Court, Markham, Ontario, Canada L3R 9T5. Include a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of warranty coverage. Also provide a complete return address.

Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Exclusions of Damages

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you have any questions about this warranty or service received or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365 / Peavey Canada Ltd. at (905) 475-2578.

FEATURES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



LISTEN TO THIS™

Features and specifications subject to change without notice.

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