

# Cover for IDC™ 150T<sup>II</sup>



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" que no tiene aislamiento dentro de la caja del producto que puede tener una magnitud suficiente como para constituir riesgo de corrientazo.



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

**PRECAUCION:** Riesgo de corrientazo – No abra.

**PRECAUCION:** Para disminuir el riesgo de corrientazo, no abra la cubierta. No hay piezas adentro que el usuario pueda reparar. Deje todo mantenimiento a los técnicos calificados.

**ADVERTENCIA:** Para evitar corrientazos 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 pour indiquer à l'utilisateur la présence à l'intérieur de ce produit de tension non-isolée dangereuse pouvant être d'intensité suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions sur l'utilisation et l'entretien (service) de l'appareil dans la littérature accompagnant le produit.

**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. Confier l'entretien à un personnel qualifié.

**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 les avertissements supplémentaires situés dans le guide.



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.

# IDC™ 150T<sup>II</sup>



Congratulations on your purchase of the IDC™ 150T<sup>II</sup>. The IDC™ 150T<sup>II</sup> power amplifier is a three rack space, solid state, mono power amplifier capable of delivering more than 150 W RMS. The unit has been designed to be reliable, meeting the needs of most fixed installation applications. One of the most significant features of this amplifier is its battery backup capability. This amplifier will operate with a 24 V DC external power source as well as 120 V AC power. This means if the AC power mains are lost, the amplifier can still function.

Fully isolated 25 volt and 70 volt line output capabilities are provided with this amplifier. SPS™ compression is also provided to help eliminate distortion due to clipping. A balanced 600 ohm line out is available to provide signal to additional amplifiers.

## **FRONT PANEL FEATURES:**

### **SPS™ LED INDICATOR (1)**

When the SPS™ compression is active, this indicator illuminates to show that the amplifier is being overdriven to the point that the signal runs out of headroom.

### **POWER LED INDICATORS: MAINS (2) & 24 V DC (3)**

Mains: Illuminates green when AC main power is supplied to the amplifier and the main power switch is turned on.

24 V DC: Illuminates red when the DC power is connected and the power switch turned on.

### **AC POWER SWITCH (4)**

Depress to “on” position to turn on amplifier.

### **DC POWER SWITCH (5)**

Depress to “on” position to enable DC backup power.

**Note:** With both AC and DC power switches turned on and sufficient AC voltage being supplied, the amplifier does not draw any current from the DC supply.

## Rear Panel:

### **BACK PANEL FEATURES:**

#### **FUSE (6)**



**WARNING: THE FUSE SHOULD ONLY BE REPLACED WHEN THE POWER CORD HAS BEEN DISCONNECTED FROM ITS POWER SOURCE.**

**CAUTION: USING A FUSE LARGER THAN THE RECOMMENDED SIZE COULD RESULT IN PERMANENT DAMAGE TO THE AMPLIFIER.**



The fuse is located within the cap of the fuseholder. If the fuse should fail, IT MUST BE REPLACED WITH THE SAME TYPE AND VALUE IN ORDER TO AVOID DAMAGE TO THE EQUIPMENT AND TO PREVENT VOIDING THE WARRANTY. If the unit repeatedly blows fuses, it should be taken to a qualified service center for repair.

#### **INPUT SENSITIVITY CONTROLS (7)**

Maximum input gain (minimum sensitivity rating) is achieved at full clockwise setting. This setting yields maximum mixer/system headroom. A setting of less than one full clockwise turn will yield lower system noise at the expense of mixer/system headroom.

#### **AMPLIFIER INPUTS (8)**

The terminal strip is configured to allow balanced or unbalanced input signals. When using an unbalanced input signal, a jumper wire should be placed between the ( - ) and GND terminals.

#### **LINE OUTPUT (9)**

This terminal strip is provided to drive the input of other amplifiers. It is a balanced 600 ohm line output.

#### **MATRIX (10)**

This jack is to be used with Peavey's MediaMatrix system. This allows for remote status and control of the amplifier or several amplifiers.

#### **DC POWER CONNECTOR (11)**

This terminal strip should be connected to a battery backup DC power supply with a voltage of approximately 24 V DC. It is important to correctly wire this so that the positive terminal is connected to the positive side of the battery. An improper connection can result in damage to the battery and/or the amplifier.

#### **AMPLIFIER OUTPUTS (12)**

Fully isolated terminal strip is provided for 25 volt and 70 volt line outputs. When using the 25 volt line output the load impedance should be 4 ohm and when using the 70 volt line output an impedance of approximately 33 ohms is recommended.

## **INSTALLATION INFORMATION: POWER HANDLING AND GROUNDING**

For your safety, we have incorporated a 3-wire line (mains) cable with proper grounding facilities. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the equipment without proper grounding facilities, suitable grounding adapters should be used. Less noise and greatly reduced shock hazard exists when the unit is operated with the proper grounded receptacles.

## **ARCHITECTURAL AND ENGINEERING SPECIFICATIONS**

The power amplifier shall have one input with provisions for balanced and unbalanced signals via terminal strip. A 600 ohm balanced line output shall be provided, also via terminal strip. The amplifier shall be capable of delivering 150 watts into 4 ohms at the 25 volt line output, and 150 watts into 33 ohms at the 70 volt line output. This unit shall have the capability of continuously operating if the AC mains are lost, due to its battery backup circuit (the battery must be provided). This amplifier shall be compatible with Peavey's MediaMatrix system, providing a jack for easy hook up and operation. This amplifier must have a signal-to-noise ratio of at least 100 dB below rated output. The unit shall be called the Peavey Architectural Acoustics Division model IDC™ 150T<sup>II</sup>.

## **LIMITED WARRANTY**

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States and Canada.

**THIS LIMITED WARRANTY IS IN LIEU OF ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, INCIDENTAL DAMAGES OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. THIS LIMITED WARRANTY IS THE ONLY EXPRESSED WARRANTY ON THIS PRODUCT, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY, OR AGREEMENT BY ANY PERSON SHALL BE VALID OR BINDING UPON PEAVEY.**

Peavey's liability to the original purchaser for damages for any cause whatsoever and regardless of the form of action is limited to the actual damages up to the greater of Five Hundred Dollars (\$500) or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. For information on service under this warranty, call a Peavey customer service representative at (601) 483-5376.

## SPECIFICATIONS

(all measurements @ 120 V AC, 60 Hz or 24 V DC)

### Rated Output Power: (typical value)

#### AC powered, continuous sine wave:

70 volt line 32.7 ohms, 1 kHz, 1% THD: 150 W RMS  
25 volt line 4.2 ohms, 1 kHz, 1% THD: 150 W RMS

#### 24 V DC battery powered, continuous sine wave:

70 volt 32.7 ohms, 1 kHz, 1% THD: 100 W RMS  
25 volt 4.2 ohms, 1 kHz, 1% THD: 100 W RMS

### Frequency Response: (typical value)

(SPS eliminated)

100 W RMS: +0, -1 db, 20 Hz to 15 kHz

### Total Harmonic Distortion:

300 kHz bandwidth measurement; AC powered  
(100 W RMS, 70 volt and 25 volt lines)  
20 Hz to 15 kHz, below 0.15% THD

### Signal-To-Noise Ratio:

(unweighted, 20 Hz to 22 kHz; FCW attenuator setting)

S/N below 103 db

### Slew Rate: (typical value)

10 V/ $\mu$ s

### Damping Factor: (typical value)

25 volt line; 1 kHz: 50  
70 volt line; 1 kHz: 100

### Input Impedance:

(FCW attenuator setting)

Balanced: 10 k ohms  
Unbalanced: 10 k ohms

### Input Sensitivity:

(FCW attenuator setting)

150 W RMS, rated output power  
Input voltage: 1.1 V RMS

### Voltage Gain:

dBV 27 db

### Dimensions & Weight:

Height: 5.25" (13.3cm)  
Width: 19" (48.3cm)  
Depth: 13" (43.2cm)  
Weight: 32 lbs.

### Protection Systems:

Thermal shutdown 100° C  
Current/Voltage limiting  
Crowbar, on output to protect speakers from DC

### Power Consumption:

#### Domestic model:

120 V AC, 60 Hz, 5 A, 600 W  
24 V DC, 7 A

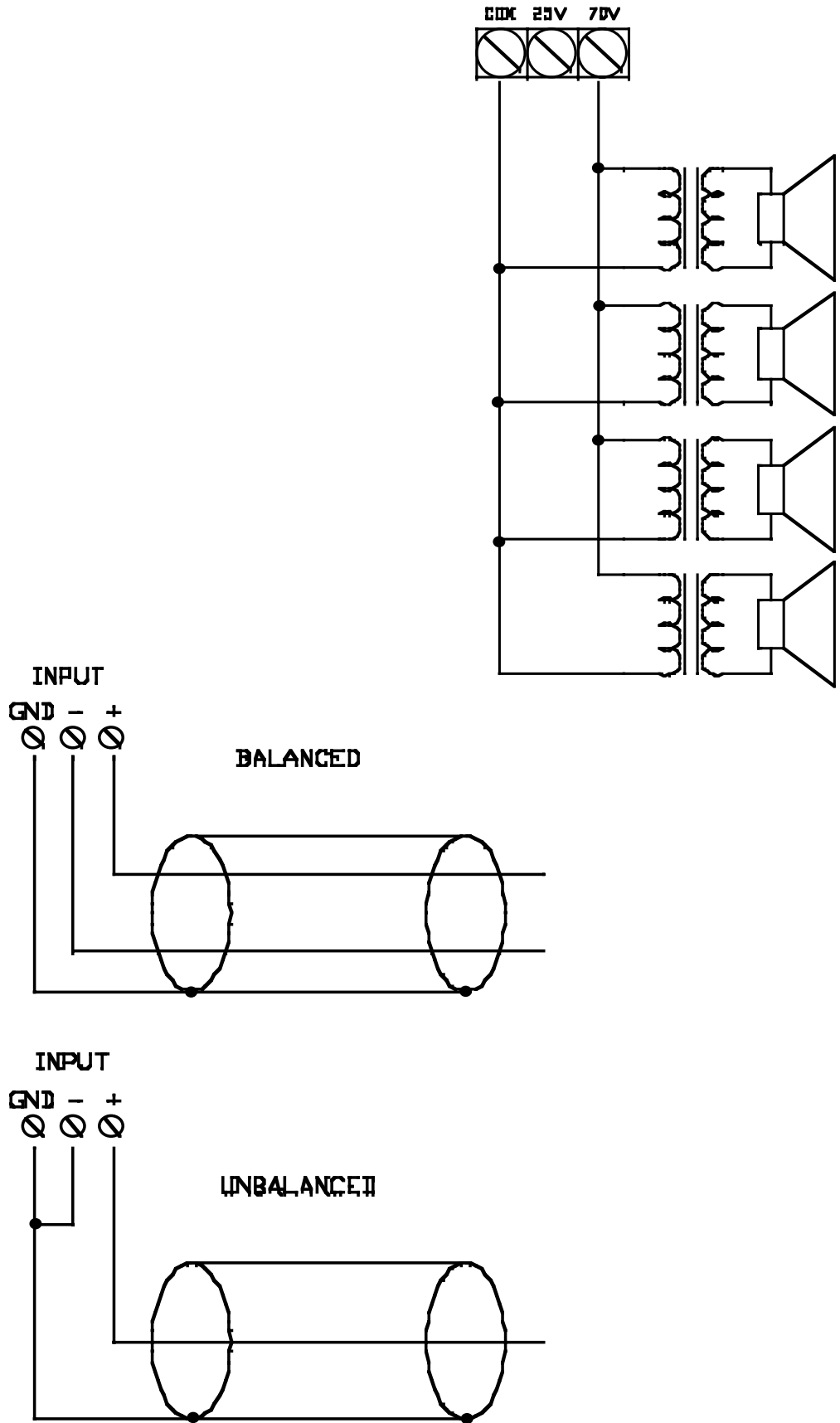
#### Export model:

230 V AC, 50 Hz, 2.6 A, 600 W



Due to our efforts for constant improvements,  
features and specifications listed herein are subject to change without notice.

# 70 VOLT CONSTANT VOLTAGE DISTRIBUTION SYSTEM



## IMPORTANT SAFETY INSTRUCTIONS

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

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be retained for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This product should not be used near water, i.e., a bathtub, sink, swimming pool, wet basement, etc.
6. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat such as a stove, radiator, or another heat producing amplifier.
8. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
9. Never break off the ground pin on the power supply cord. For more information on grounding, write for our free booklet "Shock Hazard and Grounding."
10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the plug and the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. If this product is to be mounted in an equipment rack, rear support should be provided.
13. Metal parts can be cleaned with a damp rag. The vinyl covering used on some units can be cleaned with a damp rag or an ammonia-based household cleaner if necessary. Disconnect unit from power supply before cleaning.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
15. This unit should be checked by a qualified service technician if:
  - a. The power supply cord or plug has been damaged.
  - b. Anything has fallen or been spilled into the unit.
  - c. The unit does not operate correctly.
  - d. The unit has been dropped or the enclosure damaged.
16. The user should not attempt to service this equipment. All service work should be done by a qualified service technician.
17. This product should be used only with a cart or stand that is recommended by Peavey Electronics.
18. 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 Safety and Health Administration (OSHA) has specified the following permissible noise level exposures.

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 in 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!**



Features and specifications subject to change without notice.

A Division of **Peavey Electronics Corporation**

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