



ISO-PUCK

Medical Grade

Isolation Transformers

Bridgeport Magnetics Group Inc.

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ISO-PUCK Installation, User and Maintenance Manual

Product Description

The ISO-PUCK isolation transformer guarantees that the leakage current for any electrical devices connected to the outlet receptacle will not exceed 100uA as required in NFPA* 99 2012 edition, Health Care Facility Code, and NEC* .The ISO-PUCK conforms to UL/CSA/IEC and EN 60601-1 Revision 3 safety standards for patient care areas and operating rooms. Leakage currents in excess of 100 uA may be hazardous to the health of humans.

Mounting Instructions

The ISO-PUCK I Transformers may be mounted on a wall or other vertical surface by attaching the separate steel bracket to back of the housing by means of two screws (supplied) in embedded threaded inserts. The ISO-PUCK II

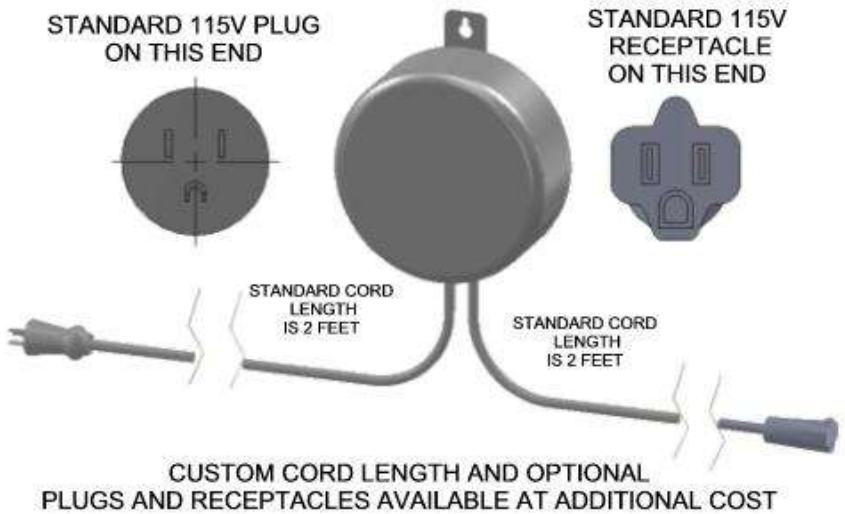
and Mini ISO-PUCK are encased in a plastic enclosure with a keyhole. A separate bracket is available to fit the rail on back of most cart models. For wall installation we recommend that the ISO-PUCK is mounted next to an electric wall outlet so that the input cord is not stretched but form a relaxed loop.

No furniture or permanent fixture must be placed in front of the ISO-PUCK to allow easy access for purpose of cleaning and safety inspection.

* NFPA (National Fire Protection Agency) NEC (National Electric Code)

Save These Instructions.

ISO-PUCK I Illustration



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Warning and Safety Notices

“Warning; to avoid risk of electric shock, this equipment must only be connected to Supply Mains with Protective Earth”.

Ascertain that the wall outlet is the correct design to accept the NEMA 15 – Plug (or other types of plugs) mounted on the input cord of the ISO-PUCK Isolation Transformer.

During normal operation under load the outside of the ISO-PUCK transformer housing will be warm but not hot. If the housing is hot to the touch, verify that combined power ratings of the apparatus, printers, computers, monitors, TV sets and other electronic devices do not exceed the maximum power ratings on the label located on the back of the housing.

Should the ISO-PUCK transformer be subject to excessive power load for an extended period of time the internal thermal auto-resettable fuse will be activated and cut off power to the devices connected to the ISO-PUCK. After a cooling off period the thermal fuse will close and the

ISO-PUCK will again function. However, the fact that the power rating of the ISO-PUCK was exceeded requires that the following actions are taken.

1. Check for proper operation of connected devices.
2. Install an ISO-PUCK with a higher power rating if total power rating of connected devices exceeded the power rating of the unit.
3. Cord Sets should be visually inspected for wear and tear.



Symbol to Operator: “ACCOMPANYING DOCUMENTS MUST BE CONSULTED”.

How to Connect

1. Insert the power plug into an wall outlet that accepts the plug on the power cord.
2. Connect your equipment to the output receptacle. A power strip may be used to accommodate more than one piece of equipment. Make sure the total power rating of the connected devices does not exceed the power rating of the ISO-PUCK transformer as listed on the back of the unit.

For OEM applications, the embedded threaded inserts allow the ISO-PUCK to be readily installed in a rack or inside equipment.

OPERATING FREQUENCY

The ISO-PUCK is available for 60 Hz or 50/60Hz operation. The 60Hz models will not operate properly with 50Hz line frequency. The 50/60 Hz models will operate on either frequency.

OVERLOAD PROTECTION

Each ISO-PUCK has a built-in auto-resettable thermal protector that will disconnect the power in case of an overload. You will find the maximum power rating (VA) on the label attached to the back of the unit.

LIFE EXPECTANCY

When properly installed and with total power rating of connected devices not exceeding the power rating of the ISO-PUCK transformer its life expectancy is ten years or more.

SHUTDOWN PROCEDURES

Should the ISO-PUCK need to be moved to another location the following steps are to be followed.

- a. Unplug electrical devices from the outlet receptacle of the ISO-PUCK.
- b. Unplug the ISO-PUCK from the wall outlet.
- c. Unhook the unit from the wall.

CLEANING INSTRUCTIONS

The sealed cover and cords with plug and receptacle are best wiped with a clean soft cloth and a mild household detergent. Do not submerge any parts in water or other liquids. Do Not Use Coarse Abrasives.

MAINTENANCE INSTRUCTIONS

When used within its prescribed maximum power rating the ISO-PUCK will continuously operate on 100% duty cycle with no need for service. Do not use if cords show sign of wear and tear. Should the cords, plug or receptacle be damaged, the unit should be returned to factory for repair. Please see *Warranties and Liabilities* for return instructions.

ENVIRONMENTAL PROTECTION

The ISO-PUCK contains no products regulated as hazardous waste under Federal RCRA regulations 40CFR, including the cured epoxy in the housing of the ISO-PUCK which when cured, is inert and non-hazardous.

No heavy metals or regulated extractable compounds are present in the product.

The disposal of the ISO-PUCK at the end of its service life must follow the following guidelines:

1. Disposal of the ISO-PUCK in local landfill if regulations permit.

2. Return the ISO-PUCK freight prepaid to the factory properly marked “For disposal”.

Permissible Environmental Conditions of Use, Storage and Transportation.

The ISO-PUCK is normally used in a room temperature environment. It can be stored at a temperature range from -40 C to + 105 degrees C and 100% humidity.

The unit itself is fully sealed and not harmed by spillage. Precaution should be taken to avoid liquid entering the corded receptacle or the wall outlet.

WARNING: No modification of this equipment is allowed.

Replacement of Power Supply Cords and other Parts.

The ISO-PUCK is not serviceable by the user and must be returned to the factory.

The only exception is the metal bracket used for wall mounting which can be replaced without returning the ISO-PUCK to the factory.

SAFETY CERTIFICATIONS

UL and CSA Standards, IEC and EN Directives, and CE Marking

The ISO-PUCK transformers are certified to the third edition of Medical Safety Standards UL60601-1 and CSA STD c22.2 No. 601.1. The design guarantees maximum leakage current well below the legal requirement of maximum 100 uA as specified by NEC (National Electrical Code) and UL 60601-1. The 50/60Hz models are certified to IEC60601-1 and EN61558-1 with CE marking.

WARRANTIES AND LIABILITIES

Limited Warranty

Seller warrants the ISO-PUCK transformer to be free from defects in materials and workmanship and to guaranteed applicable published ratings and specifications or in the case of custom designed models, the specification agreed upon, under the proper storage and use for a period of 60 months from the date of original shipment. All implied warranties, including merchantability and fitness for purpose is disclaimed.

Limited Liability

Seller's entire liability and obligation to Buyer under the above warranty shall be expressly limited to the repair, replacement or crediting, as Seller may determine at its sole discretion, of any defective or nonconforming ISO-PUCK for which Buyer has given written notice to Seller within 30 days from date of receipt of such merchandise.

For other terms and conditions, please refer to our [General Terms and Conditions of Sale](#).

Return Instructions

Please call our factory customer service at 1 800 836 5920 to obtain a (RMA) Return Material Authorization number to be affixed on shipping box.

Return address:

Bridgeport Magnetics Group Inc.

RMA No. _____

6 Waterview Drive

Shelton CT 06484

NOTES:



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