BRIDGEPORT MAGNETICS GROUP



ISO-PUCK™

Medical Grade Isolation Transformers

Ultra-low leakage current · Patient safety · Made in USA

200 VA - 3000 VA

50 / 60 Hz

AAMI / CSA / EN / IEC 60601-1 · ETL

ISO-PUCK IEC 60601-1 CERTIFIED MEDICAL GRADE

About Bridgeport Magnetics

Bridgeport Magnetics Grouptraces its origins to1982, pioneering expertise in toroidal transformers - the core technology powering our medical, marine, and utility product lines. Our state-of-the-art 45,000 sq. ft. facility is located in Shelton, Connecticut, where we continue to design, wind, and assemble every product proudly in the USA.

The ISO-PUCK series was developed in the early 2000s to solve a critical safety challenge in healthcare environments: excessive leakage current from commercial electronics and aging medical devices. By providing true galvanic isolation with a floating secondary, ISO-PUCK keeps leakage current well below the 100 µA limit required by NFPA 99 and IEC 60601-1. UL Recognized.

Every unit is engineered, wound, encapsulated, and verified by in-house testing under one roof. That vertical control is why OEMs and hospital clinical engineering teams can specify ISO-PUCK with consistent quality, short custom lead times, and documentation for the compliance file.

01. DESIGN

Application and compliance path

02. WIND

Toroidal core and shielded windings

03. ENCAPSULATE

Epoxy-potted, wipe-clean housing

04. TEST

In-house leakage and safety checks

05. DOCUMENT

Traceability and certification pack

Since 1982

Toroidal specialists for medical, marine, and utility power

One facility

Design, winding, assembly, and test in Shelton, CT

In-house test

Leakage verified before shipment. Reports available.

1–2 weeks

Typical lead time for custom ISO-PUCK configurations

What is ISO-PUCK?

ISO-PUCK is a compact medical-grade isolation transformer that holds leakage current at or below 100 µA - the NFPA 99 / IEC 60601-1 threshold for patient-care areas. A true floating secondary (no neutral-to-ground bond) breaks the ground path that commercial power strips, aging devices, and non-medical electronics otherwise put on the chassis. Use it in ORs, exam rooms, labs, carts, and anywhere touch current would otherwise fail incoming inspection.

COMPACT SEALED CERTIFIED FULLY CONFIGURABLE



≤ 100 µA

Leakage Current

200 - 3000 VA

Power Range

ISO-PUCK IEC 60601-1 CERTIFIED MEDICAL GRADE

Designed for Safety & Simplicity

Hermetically Sealed Construction

Protects windings from moisture & contaminants

Internal Toroidal Transformer

Compact & Quiet Operations

Epoxy Fire-Retardant Casing

Durable, cleanable, clinical-grade enclosure

Auto-resetting Thermal Protector

Cuts power on overload, then restores it automatically once the winding cools.



Slow-Start NTC Limiter (1000VA+)

Limits magnetizing inrush at plug-in so the unit does not trip the upstream hospital or cart breaker.

Customizable Chords & Plugs

Input & output length, recepticals are fully customizable

Features & Benefits

01. Compact Toroidal Puck
Easy, compatible installation on walls, carts, or inside equipment.

02. Flexible Configurations
200–3000VA, 50/60Hz, custom voltages, cords, plugs & receptacles.

03. Electrostatic Shielding + True Floating Secondary
Minimal EMI and maximum protection against ground leakage current.

04. Ultra-Low Leakage Current
Keeps touch current well below the 100 µA NFPA 99 / UL 60601-1 limit.

05. Thermal Protector
Auto-resettable protection disconnects on overload and recovers after cooling.

06. Sealed, Cleanable Enclosure
Epoxy-potted housing is wipe-down friendly for clinical environments.

Applications

Specified by OEM design engineers and hospital clinical engineering teams.

OEM · DESIGN ENGINEER · EE · 3RD-PARTY DESIGN HOUSE

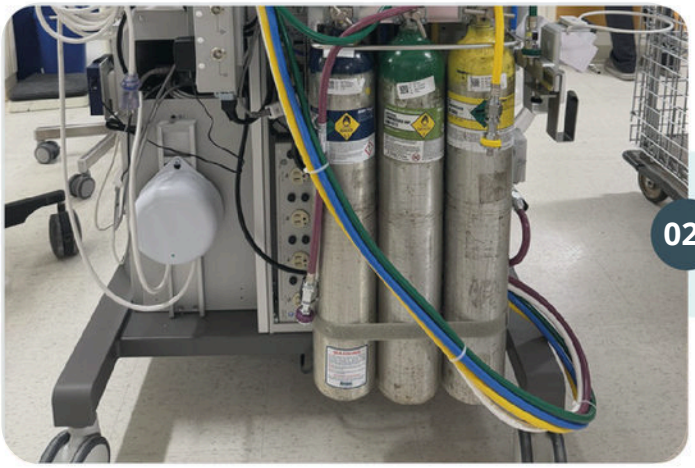
HOSPITAL · CLINICAL ENGINEER · BIOMEDICAL · FACILITIES



01.

Medical Equipment Integration

Designed into new devices so the finished product meets Medical Grade IEC 60601-1 leakage limits. Specified by imaging, diagnostic, and analyzer OEMs.



02.

Anesthesia Workstations

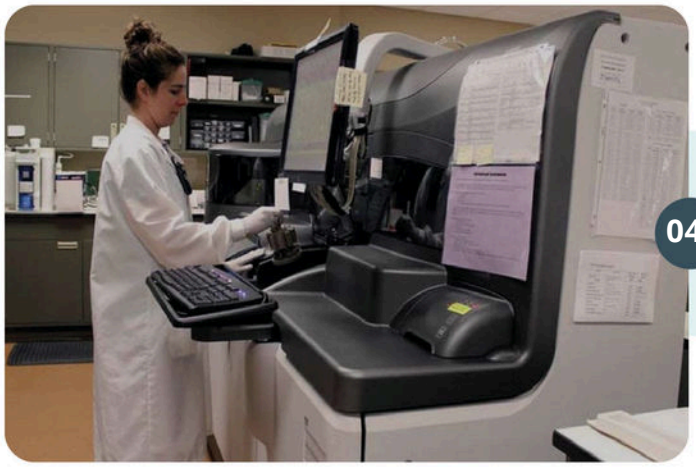
Mounted on Anesthesia machines that roll through sterile ORs 24/7.



03.

Surgical Imaging & C-Arms

Isolates portable X-ray and intra-operative C-arms at the table. Low EMI keeps images clean & applied parts within Type B/BF Limits.



04.

Clinical Lab Analyzers

Integrated into high-throughput IVD platforms where leakage, EMI, and duty cycle must stay inside the risk-management file.



05.

Mobile OR & Procedure Carts

Powers stacked monitors and point-of-care electronics on carts that leave the OR and return to a sterile field.



06.

Patient Rooms & Point of Care

Lets hospitals use commercial TVs, PCs, and printers in patient-care areas without exceeding the 100 µA NFPA 99 limit.

Technical Highlights

Power Ratings	200 VA - 3000 VA
Frequency	60 Hz or 50/60 Hz models
Input / Output Voltage	120 V, 230V, 240 V (configurable)
Leakage Current	Well below 100 µA (many ≤ 50 µA)
Isolation System	True floating secondary (IT earthing)
Protection	Auto-resettable thermal protector ; NTC Limiter (1000VA+)
Enclosure	Epoxy-potted polycarbonate
Mounting	Keyhole wall mount · OEM threaded inserts
Certifications	AAMI / CSA / EN / IEC 60601-1 · CE · ETL · RU UL Recognized
Warranty	36 months from date of shipment
Origin	Designed, wound & assembled in Shelton, CT

How ISO-PUCK Protects the Patient

01.

Facility Power

Line voltage from the branch circuit, including leakage from comercial loads.

02.

Galvanic isolation

Toroidal isolation transformer breaks the conductive path between primary and secondary.

03.

Floating secondary

No neutral-to-ground bond. Touch current stays well the 100 µA limit.

04.

Clinical use

Safe power for OR, ICU, lab, cart, and patient-room equipment.

Ordering Information

IP1000 — Model

Code	Description
IP200	200 VA
*IP300	300 VA
**IP350	350 VA
*IP400	400 VA
*IP600	600 VA
**IP650	650 VA
*IP800	800 VA
IP1000	1000 VA
IP1200	1200 VA
IP1500	1500 VA
IP1800	1800 VA
*IP2200	2200 VA
*IP2400	2400 VA
**IP2500	2500 VA
*IP3000	3000 VA

*60Hz Only
**50Hz Only

60 — Frequency

Code	Description
50	50Hz
60	60Hz

120 — Input Voltage

Code	Description
120	120 V
230	230 V
240	240 V

Custom Available

N15 — Input Plug

Code	Description
N15	NEMA5-15P
SH	Schuko
C14	IEC C14
NP	No Plug
CUS	Custom

2 — Input Length

Code	Description
2	2 ft
5	5 ft
10	10 ft

Custom Available

120 — Output Voltage

Code	Description
120	120 V
230	230 V
240	240 V

Custom Available

N15 — Output Plug

Code	Description
N15	NEMAS-15P
C13	IEC C13
PS6	Powerstrip (6 out)
TT3	Triple Tap (3 out)
NP	No Plug
CUS	Custom

2 — Output Length

Code	Description
2	2ft
5	5ft
10	10 ft

Custom Available

Format: Model – Frequency – Input Voltage / Input Plug / Input Length – Output Voltage / Output Plug / Output Length

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