



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

About Bridgeport Magnetics



Bridgeport Magnetics Group traces its origins to 1982, 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 μ A 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 μ A - 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

$\leq 100 \mu\text{A}$

Leakage Current

200 - 3000 VA

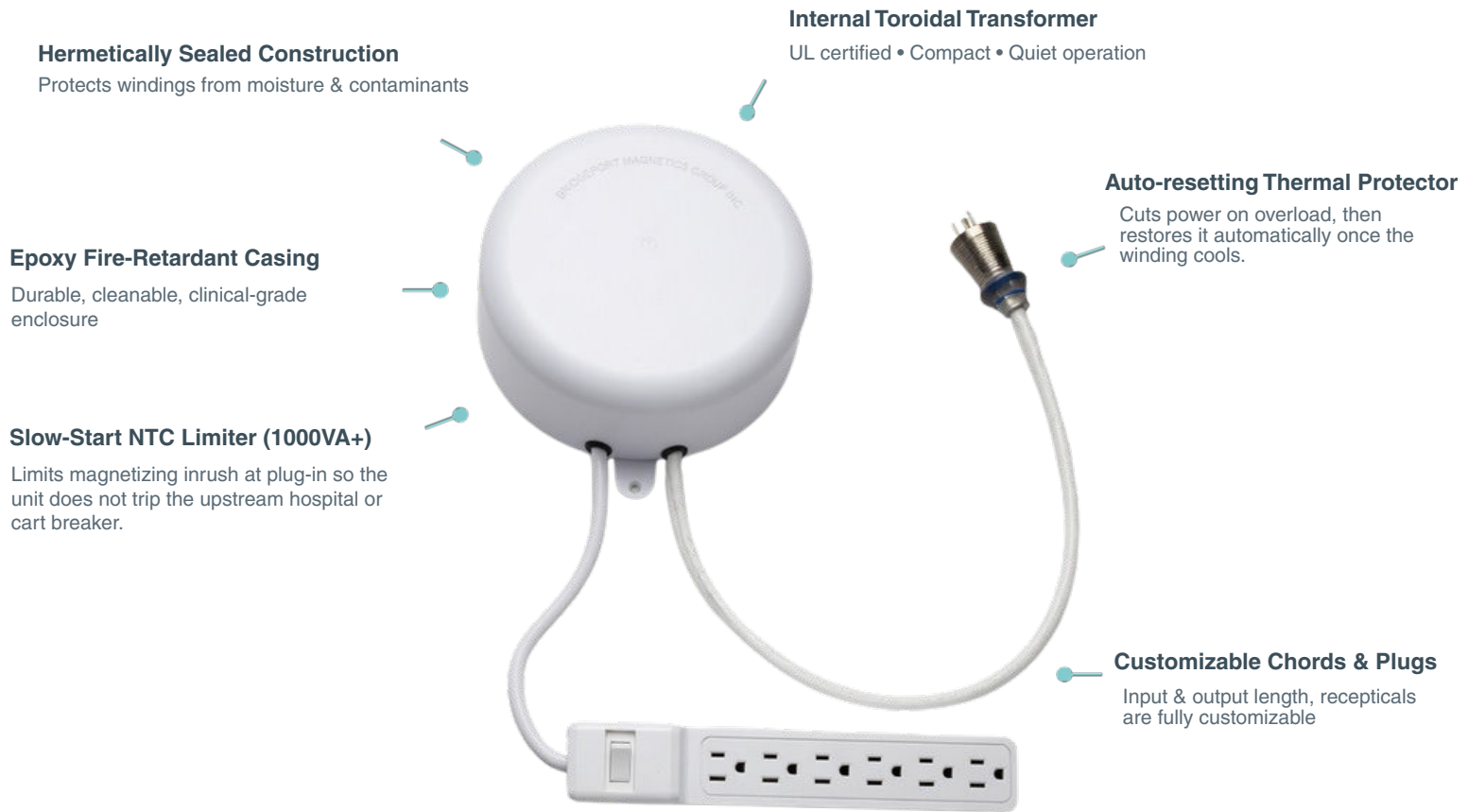
Power Range

IEC 60601-1

Certified



Designed for Safety & Simplicity



Features & Benefits

1 Compact Toroidal Puck

Easy, compatible installation on walls, carts, or inside equipment.

2 Flexible Configurations

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

3 Electrostatic Shielding + True Floating Secondary

Minimal EMI and maximum protection against ground leakage current.

4 Ultra-Low Leakage Current

Keeps touch current well below the 100 μ A NFPA 99 / UL 60601-1 limit.

5 Thermal Protector

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

6 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



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.



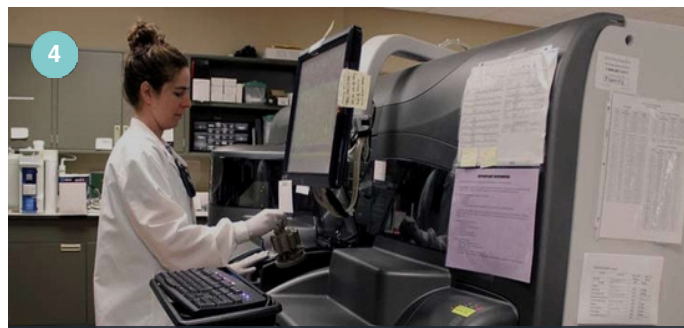
Anesthesia Workstations

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



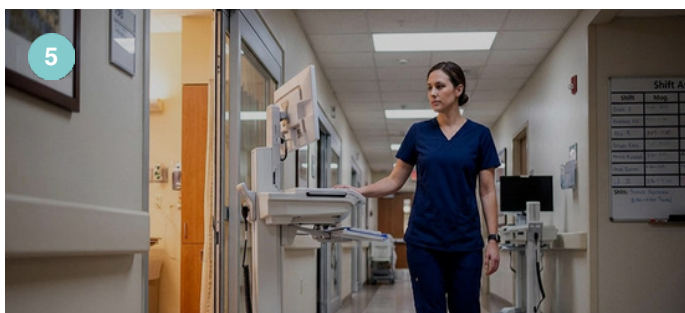
Surgical Imaging & C-Arms

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



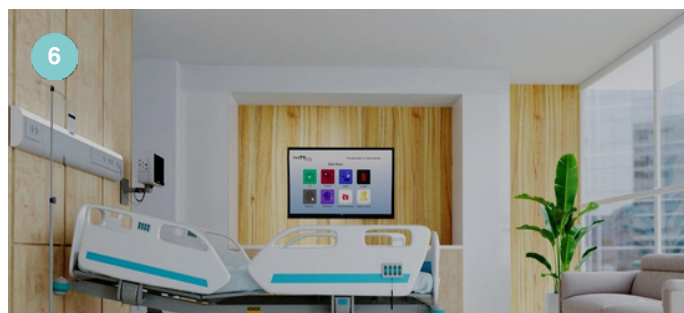
Clinical Lab Analyzers

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



Mobile OR & Procedure Carts

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



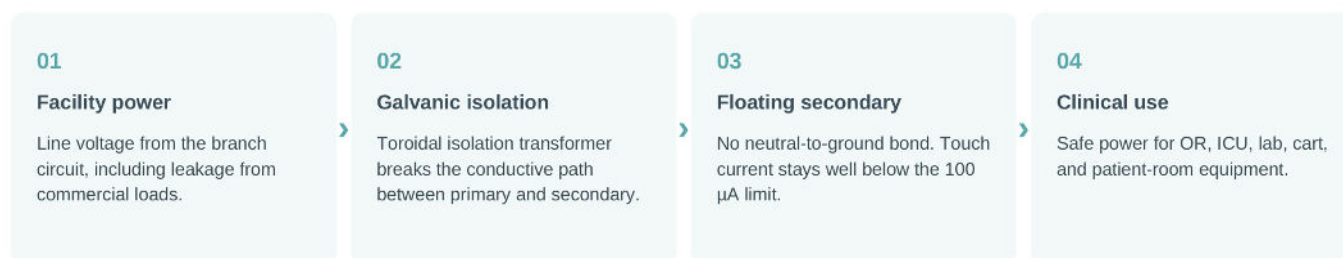
Patient Rooms & Point of Care

Lets hospitals use commercial TVs, PCs, and printers in patient-care areas without exceeding the 100 μ A 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 μ A (many $\leq$ 50 μ A)
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



Ordering Information

ISO-PUCK

IP1000	60	120	N15	2	120	N15	2																																																																																																								
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Format: Model – Frequency – Input Voltage / Input Plug / Input Length – Output Voltage / Output Plug / Output Length

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MADE IN USA