BRIDGEPORT MAGNETICS GROUP



MARINE-PUCK ™

UL Marine · Boat Isolation · Made in USA

25, 30, 50, 100 A

50 / 60 Hz

UL Marine/ ABYC E-11 Compliant

About Bridgeport Magnetics

Bridgeport Magnetics Group has pioneered toroidal transformer technology since 1982. From our modern 45,000 sqft. facility in Shelton, Connecticut, we design, wind, encapsulate, and test every MarinePuck under one roof - delivering consistent quality and short lead times for marine OEMs, yards, and vessel owners.

MarinePuck was developed to solve the core problems of shore power: galvanic corrosion of underwater metals, shock hazards in the water, and nuisance GFCI/ELCI trips at the dock. The result is a compact, quiet, Class II isolation transformer that is up to 50% lighter and smaller than conventional laminated units.

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.

3-5 Working Days

Typical lead time for custom Marine-Puck configurations

What is Marine-Puck?

MarinePuck is a compact, hermetically sealed toroidal isolation transformer in a non-metallic, corrosion-resistant ABS enclosure. It provides full galvanic and AC isolation between shore power and the vessel's electrical system. This eliminates the conductive path that causes galvanic corrosion of hulls, shafts, and propellers, stops shock hazards in the water, and prevents nuisance tripping of dock GFCI/ELCI breakers.

Designed for ABYC E-11 isolation-transformer practice when installed per the supplied diagrams (ELCI on the input, secondary neutral bonded once). UL Listed Marine, file E509703. Ignition protected. Made in the USA.

COMPACT **SEALED** **CERTIFIED** **BOOST & SOFTSTART INCLUDED**



Boost + Soft Start

Included as standard on MP6

25, 30, 50 & 100A

Power Range

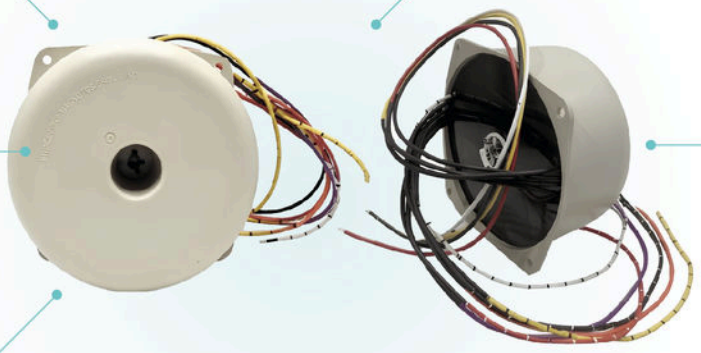
Designed for Simple, Reliable Installs

Hermetically Sealed Construction

Protects windings from moisture & contaminants

Internal Toroidal Transformer

Compact & Quiet Operations



Epoxy Fire-Retardant Casing

Durable, Non-metallic

Boost Function Included

104V and 208V Boost Included for every unit

Soft-Start Included

Limits magnetizing inrush at plug-in so the unit does not nuisance trip the marina breaker

Flexible Mounting

Central carriage bolt - Istallation for any orientation

Features & Benefits

01. Compact Toroidal Puck

Up to 50% lighter and smaller than conventional laminated isolation transformers. Quiet - no hum on shore power.

02. Class II Double Insulation

Non-metallic enclosure. No metal case to corrode or ground. Hermetically epoxy-potted against seawater ingress.

03. Flexible Mounting

Central carriage bolt on deck or bulkhead. Wiring can exit rear or radially. Any orientation.

04. Soft-Start & Boost Included

Soft-start on MP6 and Dual MP6 limits inrush. 104 V and 208 V boost taps standard on all units.

05. UL Marine Listed

File E509703 (US & Canada). Ignition protected. Designed for ABYC E-11 when installed per diagrams.

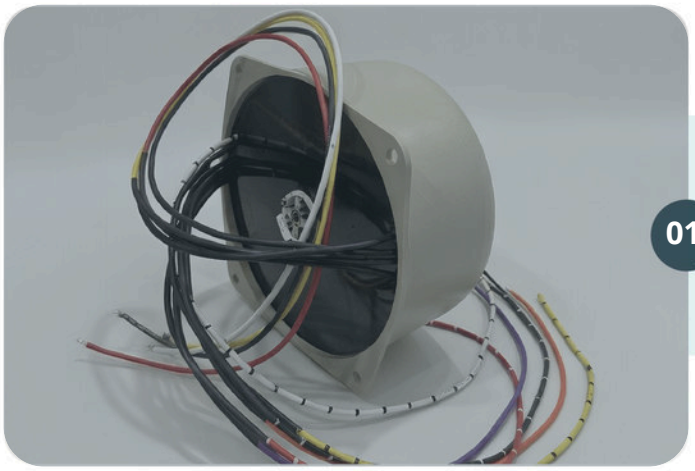
06. Made in the USA

Designed, wound, encapsulated, and tested in Shelton, Connecticut.

Applications

Specified by marine design engineers, yacht builders, and yards.

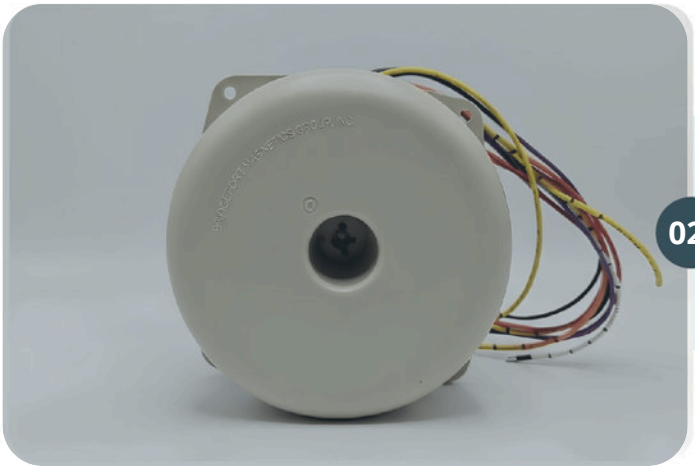
OEM · DESIGN ENGINEER · NAVAL ARCHITECT **YARD·MARINE ELECTRICIAN · VESSEL OWNER**



01.

50A / 100A Larger Yachts

Quiet, compact isolation for space-sensitive yachts with heavy loads. Dual MP6 systems deliver full 12 or 24 kVA capacity without the bulk of traditional metal boxes.



02.

Drop-In Retrofit / Replacement

Direct electrical replacement for aging Charles Iso-Boost, IsoTransformer, and Victron 3.6 kVA units. Lighter, non-metallic, with boost and soft-start included.



03.

New Builds / OEMS

Specified by boat builders for new construction. Compact form factor, UL Marine listing, and U.S. manufacturing support clean ABYC E-11 installs.



04.

30A Smaller Coastal Cruisers

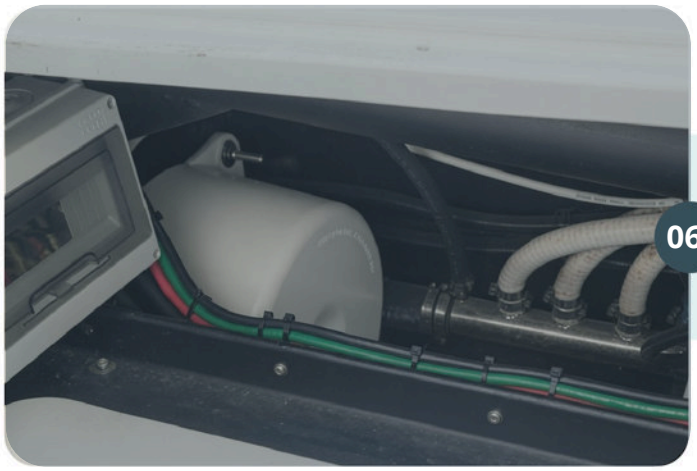
Stops nuisance GFI trips and galvanic corrosion on 25–40 ft boats. The MP3.6 delivers full isolation in a compact, quiet package.



05.

Trawlers & Mid-Size Motoryachts

Reliable shore isolation with boost taps for weak docks. Soft-start and quiet operation suit long-term liveaboard and cruising use.



06.

Commercial / Workboats & Charter

Durable Class II construction with hermetic sealing and ignition protection. Built for harsh environments and continuous shore power connection.

Technical Highlights

Power Ratings	3.6 kVA (MP3.6) · 6 kVA (MP6) · 12 kVA (Dual MP6) · 24 kVA
Frequency	50/60 Hz (International)
Input / Output Voltage	120/240 V (configurable dual windings)
Boost	104 V & 208 V taps included on all units
Soft-Start	Included on MP6 and Dual MP6
Enclosure	Flame-rated non-metallic ABS, epoxy-potted, Class II
Mounting	Central carriage bolt - deck or bulkhead
Certifications	UL Listed Marine E509703 · Ignition Protected · ABYC E-11 Compliant
Dimensions	MP3.6: 10" OD × 5" H · MP6: 12.6" OD × 6.5" H
Weight	MP3.6: ~50 lb · MP6: ~80 lb · Dual MP6: ~160 lb
Origin	Designed, wound & assembled in Shelton, CT

How MARINEPUCK Protects the Boat

01.

Shore Power

Dock power enters the vessel inlet, including leakage and potential ground faults.

02.

ELCI on the Input

Equipment Leakage Circuit Interrupter protects the primary side (required for the ABYC E-11 path).

03.

Galvanic Isolation

Toroidal isolation transformer breaks the conductive path between shore and vessel.

04.

Secondary Bond

One neutral-to-ground bond on the secondary creates a safe local reference. Shore green is capped.

Installation Note: Always follow the supplied wiring diagrams. Size the transformer to the shore inlet. Bond the secondary neutral once. Cap the shore green. Have a qualified marine electrician install and verify.

Ordering Information

Model	Service	kVA	Dimensions	Weight
MP3.6-30A	30A / 120V	3.6	10″ OD x 5″ H	~50lb
MP6 25A	50A class / 120/240V	6	12.6″ OD x 6.5″ H	~ 80lb
Dual MP6 50A	50A / 120/240V	12	2 × 12.6″ OD x 6.5″H	~ 160 lb

All units include 104 V & 208 V boost. Soft-start on MP6 and Dual MP6. Color-coded AWG #10 leads.
Full installations schematics supplied with every order.

For 100A systems use tho Dual MP6 systems (24 kVA). Custom configurations available – contact us.

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