

BRIDGEPORT MAGNETICS



**Portable Utility Power
Restoration**

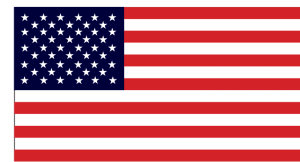


About Bridgeport Magnetics

Bridgeport Magnetics Group traces its origins to 1982, when founders Ulrik Poulsen and Sandu Pescaru began pioneering expertise in toroidal transformer - the core technology powering our innovative power restoration product lines. In 2008, our divisions merged into BMG and relocated to a state-of-the-art 45,000 sq. ft. facility in Shelton, Connecticut, where we continue to manufacture all products proudly in the USA.

Our groundbreaking PowerBack series and Trident system stem from close collaborations with utility partners, including a pivotal co-development with Con Edison on the PhazeSaver - a portable toroidal transformer designed for swift outage recovery. These partnerships, combined with our commitment to constant innovation, ensure our solutions are tailored specifically for linemen, delivering cutting-edge, efficient, and user-friendly tools that minimize downtime and enhance safety in the field.

Your reliable partner for premium toroidal transformer solutions. Proudly vertically integrated in the US - we excel in designing, manufacturing, and testing UL-certified utility transformer solutions.



MADE IN USA

Trident

Trident was specifically designed for utility linemen, featuring modular, ultra-portable 10kVA units that enable effortless one-person carry-in and deployment. It leverages advanced toroidal autotransformers to swiftly restore a missing hot leg or neutral in 120/240V or 120/208V services, minimizing downtime and keeping homes powered during outages from storms, accidents, or maintenance - setting it apart from our wheeled Power Back models for quick access to hard-to-reach sites.

Key Features:

- **Modular & Portable:** Lightweight one or two 10 kVA units (45 lbs each) with handles
- **Versatile:** Restores lost phases/neutrals for up to 200A residential services.
- **Safe:** Non-metallic, flame-rated enclosures - no grounding needed
- **Flexible:** Individual circuit breakers for selective power distribution

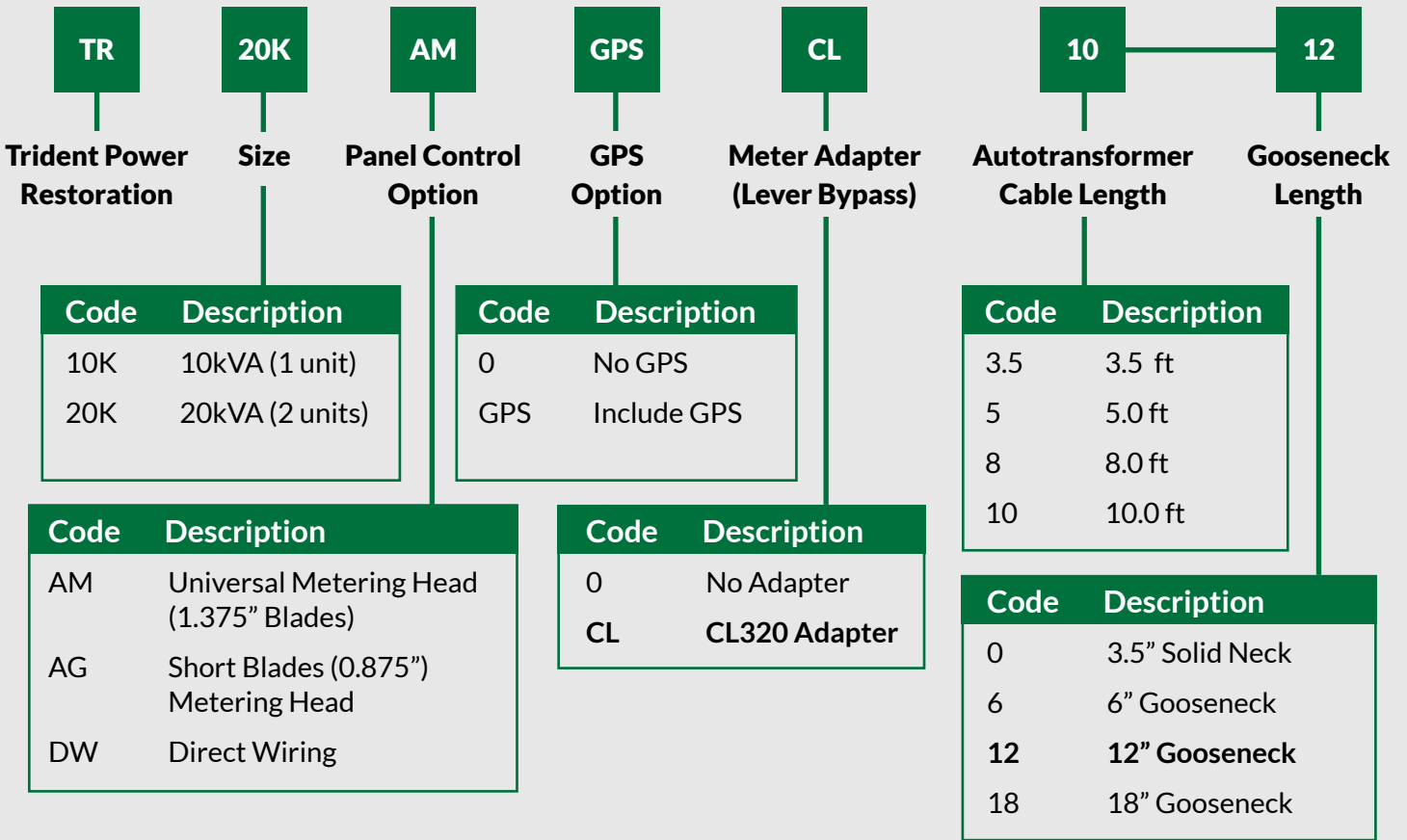


Benefits:

- One-person installation in under 30 minutes
- Reduces downtime amid outages caused by severe weather, incidents, or routine upkeep.
- Built for rugged environments, Safe for outdoor use in wet conditions
- Proudly USA-made with high-quality components
- 3-year warranty for peace of mind

Attribute	Details
VA Rating	10kVA (oneAuto); 20kVA (two Auto)
Recommended Service	100A (oneAT); 200A (twoAT)
Breaker	2x63A
Weight	oneAT 45lbs; Control Box 9lbs
Connectivity	Metering Adapter - 200A Rating
Country of Manufacture	USA
Manufacturer	Bridgeport Magnetics Group
Warranty	3 Years

Ordering Information



Version A: 3.5" Solid Neck with Meter Adapter



Version B: Direct Wire, Bottom Knockout



Version C: 12" flexible Gooseneck

Power Restoration

PowerBack

PowerBack, developed in collaboration with utility partners, delivers durable and mobile power restoration solutions tailored for challenging field conditions. It incorporates a rugged wheeled cart with foam-filled tires for seamless navigation across uneven terrain, while employing state-of-the-art toroidal autotransformers to rapidly recover a lost hot leg or neutral in 120/240V or 120/208V system - effectively reducing interruptions for homes, small businesses, or multiple residences amid outages caused by severe weather, incidents, or routine upkeep.



Key Features:

- **Wheeled & Rugged Mobility:** Stainless steel enclosure with foam-filled, puncture-proof tires and collapsible handle for easy transport over rough terrain—superior durability for utility crews vs. lighter competitors.
- **High-Capacity Versatility:** Restores lost single phases/ neutrals for up to 400A residential, small commercial, or multi-home services; models from 15kVA to 50kVA.
- **Enhanced Safety:** Grounds directly to the meter pan for safety. Circuit breakers trip automatically if thermal sensors in the autotransformers detect overheating. Offers optional GFI protection. Flame-rated components ensure reliable performance in wet or hazardous environments while reducing cabling risks.
- **Efficient Design:** Toroidal autotransformers deliver low heat, quiet operation, and high efficiency in a lightweight package (e.g., 130 lbs for 20kVA).

Attribute	Details
VA Rating	15,000 - 50,000 VA
Recommended Service	150 - 400A
Breaker	125 - 400A
Weight	115 - 290lbs
Size	46" x 28" x 22"
Connectivity	Metering Adapter - HD 320A Rated
Thermal Protection	105° C
Available Options	GFI
Country of Manufacture	USA
Manufacturer	Bridgeport Magnetics Group
Warranty	3 Years

PowerBack - Light

The PB-Light is a lighter, more agile evolution of our trusted PowerBack system, optimized for utility crews needing quick mobility without the bulk. Unlike the modular, carry-in Trident or the heavier-duty wheeled PowerBack, it features a compact aluminum wheeled base with a low center of gravity for superior handling in snow, rough terrain, or confined spaces. Leveraging advanced toroidal autotransformers, it restores a missing hot leg or neutral in 120/240V or 120/208V 3-wire services, delivering up to 20kVA (200A) at just 110 lb - outpacing competitors' bulkier designs in ease of deployment while maintaining top-tier safety and efficiency.

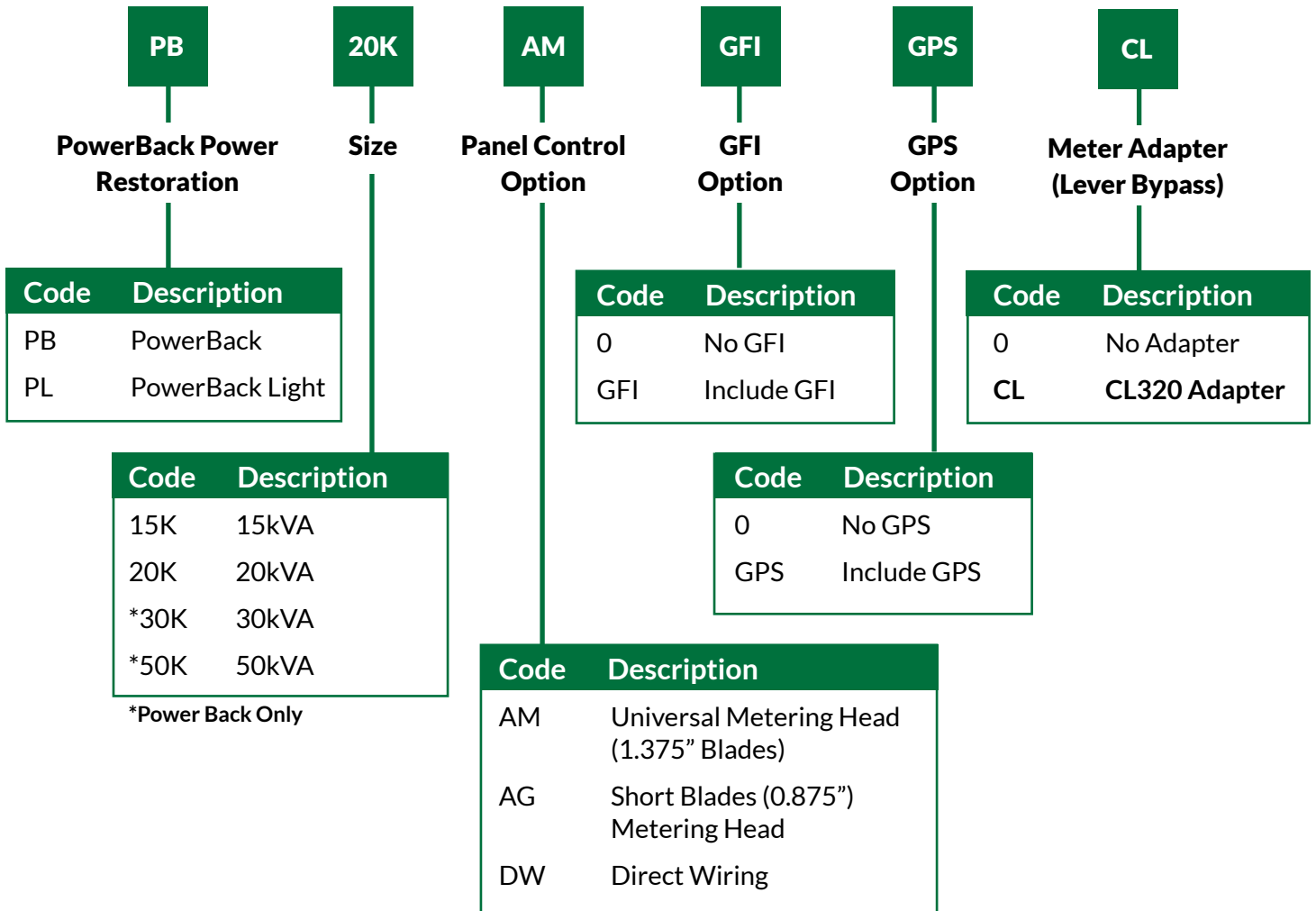
Key Features:

- **Ultra-Lightweight Mobility:** Aluminum wheeled base with low center of gravity for superior handling in snow, rough terrain, or tight spaces—at just 110 lbs, lighter and more agile than standard wheeled competitors.
- **Versatile Performance:** Restores lost phases/neutrals for up to 200A residential or small business services; delivers up to 20kVA.
- **Enhanced Safety:** Non-metallic resin enclosures require no grounding; flame-rated for reliable use in wet or hazardous environments.



Attribute	Details
VA Rating	15,000 - 20,000 VA
Reccommended Service	150 - 200A
Breaker	125 - 160A
Weight	91 - 110lbs
Size	29" x 22" x 13"
Connectivity	Metering Adapter - 200A Rated
Thermal Protection	105° C
Available Options	GFI
Country of Manufacture	USA
Manufacturer	Bridgeport Magnetics Group
Warranty	3 Years

Ordering Information



Technical Information

Adapter Meter (AM)

- Universal corded meter adapter for ringed and ringless sockets
- 1.375" long terminals with included bushing for ring-type air gap
- Rated up to 200A with integrated locking tabs for secure fitment



Adapter Grounder (AG)

- Enhanced adapter for ring-type sockets only
- Short terminals (0.875") with green grounding pigtail
- Fits 200A and 320A ratings with input/output voltmeters
- Designed for grounded, high-humidity, or multi-phase environments



Direct Wire (DW)

- Bypasses adapters for direct hardwired connections
- Uses heavy-duty cables (4/0 AWG, 1 AWG, or 3/0 AWG with CAM-Lock connectors)
- Ideal for multi-home or custom installations up to 400A



CL320 Adapter (Lever By-Pass)

- Shallow adapter for lever bypass panels (up to 320A)
- Maintains uninterrupted service during meter removal
- Allows the lever to stay locked, the front panel re-attachment, and direct PowerBack connectivity
- Fits ringed and ringless panels; narrow spade + neutral pass-thru window



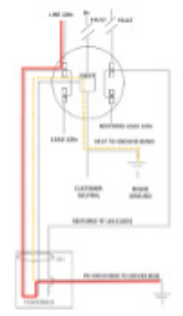
GPS (GPS Tracking Add-On)

- Optional GPS & Track add-on for PowerBack units
- Enables real-time location monitoring
- Helps utilities track deployments and recover units
- Prevents units from being left at customer sites



GFI (Ground Fault Interrupter)

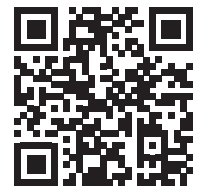
- Optional current-sensing transformer add-on inside enclosure
- Wired to a defeat toggle; requires a driven ground rod to the chassis
- Monitors all three conductors vs. neutral load balance
- Trips the main breaker on 8-amp imbalance (neutral failure protection)
- Stays off during hot-leg neutral restoration; test first, then activate
- Compatible with all PowerBack models for added temporary restoration safety



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