BRIDGEPORTMAGNETICS
GROUP



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

Power Restoration

Trident

Trident is the one-person restoration kit for meters a wheeled unit cannot reach. Each 10 kVA module weighs 45 lbs - light enough for a troubleman to carry up stairs, down an alley, or across a finished yard without waiting on a second crew. One module covers 100A. Two restore up to 200A. Designed by linemen, for linemen.

Key Features:



- **45 lb Modular Carry:** Each 10 kVA Auto Transformer weighs 45 lbs and has a handle. One person carries it up stairs, down an alley, or across a finished yard. One module for 100A. Two for 200A.
- **Redundant Load-Sensing Overcurrent Protection:** Each transformer has its own 50A breaker. If only one autotransformer is installed and the house needs more than that module can carry, Trident shuts off - protecting the transformer and the home. Built-in voltage and current monitoring adds a second overcurrent trip path.

• **Weatherproof Flame-Rated Enclosure:** Transformers are encapsulated in flame-rated ABS. Non-metallic, no ground rod required and built to sit outdoors in wet conditions.

• **Single-Turn Universal Meter Adapter:** Locks into ring-type and ringless sockets in one turn

Attribute	Details
VA Rating	10kVA (oneAuto); 20kVA (twoAuto)
Reccommended Service	100A (oneAuto); 200A (twoAuto)
Breaker	2 x 50A
Weight	oneAuto 45 lbs; Control Box 9 lbs
Connectivity	Metering Adapter - 200A Rating
Country of Manufacture	USA
Manufacturer	Bridgeport Magnetics Group
Warranty	1 Year

Ordering Information

TR	20K	AM	GPS	CL	10	12
Trident Power Restoration	Size	Panel Control Option	GPS Option	Meter Adapter (Lever Bypass)	Autotransformer Cable Length	Gooseneck Length

Code	Description
10K	10kVA (1 unit)
20K	20kVA (2 units)

Code	Description
0	No GPS
GPS	Include GPS

Code	Description
AM	Universal Metering Head (1.375” Blades)
AG	Short Blades (0.875”) Metering Head
DW	Direct Wiring

Code	Description
0	No Adapter
CL	**CL320 Adapter**

Code	Description
3.5	3.5 ft
5	5.0 ft
8	8.0 ft
10	10.0 ft

Code	Description
0	3.5” Solid Neck
6	6” Gooseneck
12	**12” Gooseneck**
18	18” Gooseneck



Version A: 3.5″ Solid Neck with Meter Adapter



Version B: Direct Wire, Bottom Knockout



Version C: 12″ flexible Gooseneck

Power Restoration

PowerBack

Designed by linemen, for linemen. PowerBack is a rugged wheeled restoration unit with foam-filled tires, built to roll from the truck onto uneven terrain and put a lost hot leg or neutral back online in minutes - using toroidal autotransformers for 120/240V or 120/208V services. Less downtime for homes, small businesses, and multi-residence services during storms, incidents, or planned work.

Key Features:



- **Dual-trip Protection:** Two independent trip paths: transformer winding temperature and overcurrent. If either limit is reached, PowerBack disconnects itself. Leave it on-site with confidence.
- **Lightweight & Compact - built for the Truck:** Transformer designkeeps weight down so one lineman can roll it on/off the truck with ease.
- **Single-Turn Universal Meter Adapter:** Connects at the meter in one turn, neutral included. Fast install.
- **Puncture-Proof Tires:** Never-flat / airless tires for rough deployments -driveways, gravel, mud, and storm debris.
- **Enhanced Saftey - Optional GFI:** GFI with defeat switch, meter-pan grounding, and flame-rated components.

Attribute	Details
VA Rating	15,000 - 50,000 VA
Reccommended Service	150 - 400A
Breaker	125 - 400A
Weight	115 - 290lbs
Size	29″ x 22″ x 13″
Connectivity	Metering Adapter - HD 320A
Thermal Protection	Rated 105° C
Available Options	GFI
Country of Manufacture	USA
Manufacturer	Bridgeport Magnetics Group
Warranty	1 Year

Power Restoration

PowerBack - Lite

PowerBack Lite is the lighter, truck-ready version of PowerBack - built for one lineman who needs to move fast without the bulk. Compact aluminum cart, low center of gravity, rolls through snow, rough ground, and tight spaces. Same toroidal autotransformer: restores a missing hot leg or neutral on 120/240V or 120/208V service in minutes at the meter.

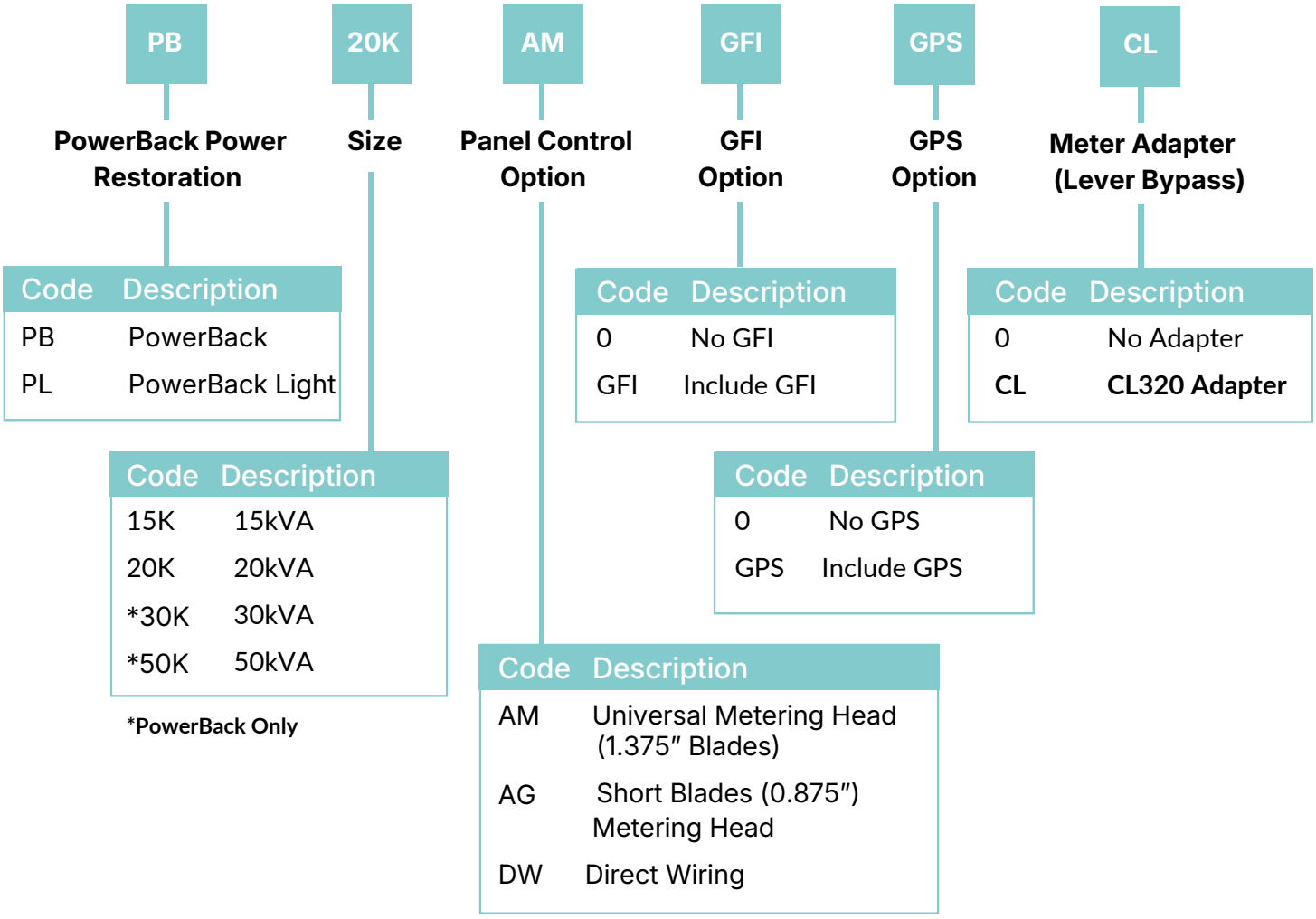
Key Features:

- **One Person Roll-In:** Aluminum base and resin enclosure keep PowerBack Lite at 91–110 lbs, one lineman can roll it from the truck to the meter.
- **Dual-trip Protection:** Two independent trip paths: transformer winding temperature and overcurrent. If either limit is reached, PowerBack disconnects itself. Leave it on-site with confidence.
- **Puncture-Proof Tires:** Never-flat / airless tires for rough deployments - driveways, gravel, mud, and storm debris.
- **Low Center of Gravity:** Compact aluminum wheeled base stable in snow and mud, easy to steer through tight residential access.



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
Thermal Protection	Rated 105° C
Available Options	GFI
Country of Manufacture	USA
Manufacturer	Bridgeport Magnetics Group
Warranty	1 Year

Ordering Information



Code	Description
PB	PowerBack
PL	PowerBack Light

Code	Description
15K	15kVA
20K	20kVA
*30K	30kVA
*50K	50kVA

*PowerBack Only

Code	Description
AM	Universal Metering Head (1.375″ Blades)
AG	Short Blades (0.875″) Metering Head
DW	Direct Wiring

Code	Description
0	No GFI
GFI	Include GFI

Code	Description
0	No GPS
GPS	Include GPS

Code	Description
0	No Adapter
CL	**CL320 Adapter**

Power Restoration

PowerBack 50kVA - 400A Multi-house Restoration

The 50 kVA PowerBack restores a missing hot or missing neutral on the incoming secondary, bringing the entire multi-meter bank back online - not just one socket. Land it directly on a multi-meter cabinet, pedestal, or pad-mount via the Cam-Lok kit. 50 kVA & 400 A class.



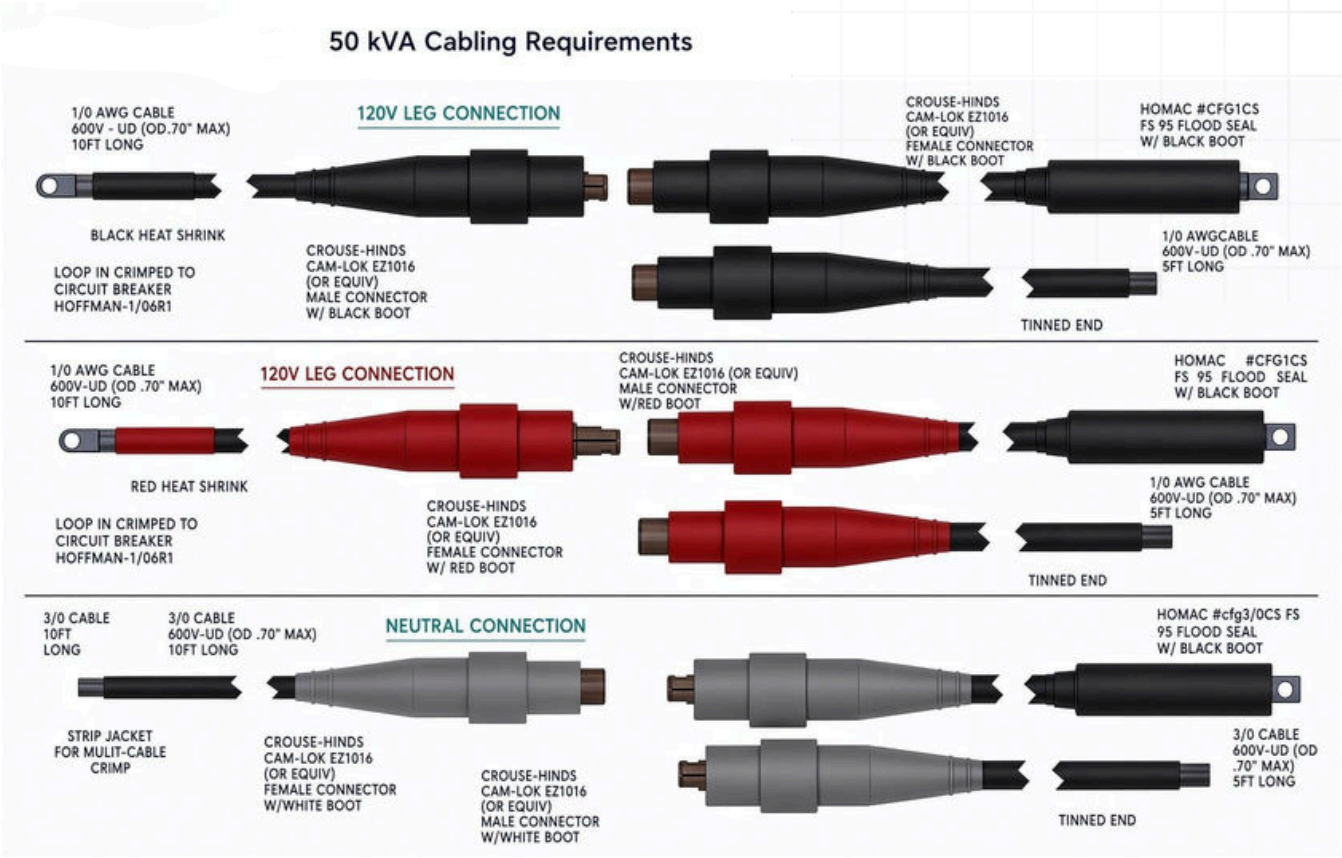
Key Features:

- **400A-Class Multi-Home Restore:** Sized for apartment and condo meter packs, commercial strips, connection cabinets with a bus, and multi-home pedestals.
- **Cam-Lok Secondary Landing:** 10 ft leads off the 400A breaker, Cam-Lok disconnect, then a 5 ft Flood-Seal whip (Homac bar) or tinned-end whip (bus / transformer spade).
- **Dual-trip Protection:** Two independent trip paths: transformer winding temperature and overcurrent. If either limit is reached, PowerBack disconnects itself. Leave it on-site with confidence.
- **Puncture-Proof Tires:** Foam-filled, airless tires for cabinet pads, gravel, and storm debris.

Attribute	Details
VA Rating	50,000 VA
Reccommended Service	400A
Breaker	400A
Weight	290lbs
Size	46″ x 35″ x 20″
Connectivity	Cam-Lok Kit
Thermal Protection	105° C Shunt Trip
Available Options	GFI, GPS
Country of Manufacture	USA
Manufacturer	Bridgeport Magnetics Group
Warranty	1 Year

Power Restoration

PowerBack 50kVA - Quick Disconnect Cabling



These 9 cable assembilies are required for each 50 kVA unit

Attribute	Details
VA Rating	50,000 VA
Reccommended Service	400A
Breaker	400A
Weight	290lbs
Size	46″ x 35″ x 20″
Connectivity	Cam-Lok Kit
Thermal Protection	105° C Shunt Trip
Available Options	GFI, GPS
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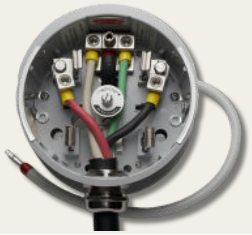
Optional Add-Ons

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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