

- **UL1741 end-to-end**
- **Greater dynamic stability**
- **Better performance with generators**
- **Universal design; more compatibility with other inverter bands for more flexibility**
- **Split/phase design; no transformers required for easier residential and light commercial integration**
- **Fully integrated system from an industry-leading brand**



OutBack FLEXcoupled complete AC-Coupling system

Grid-interactive or Grid/Hybrid renewable energy systems with more sophisticated inverter/chargers and battery storage capabilities can provide off-grid performance when grid power is unstable, expensive, or even down altogether due to outages or emergencies. But those benefits were out of reach to owners of more common grid-tied systems with simple inverters, which must disconnect when the utility grid is not present for safety reasons—until now. Growing interest in having the best of both worlds— combining grid-tied savings with off-grid independence—is behind the adoption of AC-coupling, which enables an existing grid-tied inverter system to “couple” as another energy source to a second grid-interactive inverter (with connected battery storage) and share their combined energy while providing battery back-up security and flexibility.

Now with OutBack Power’s FLEXcoupled solution based on its acclaimed Radian inverter/charger, this “new grid” energy solution has a new performance standard set by the off-grid leader, leveraging technology and quality proven in countless installations in mission-critical applications.

The OutBack FLEXcoupled system is unique from other AC-coupling types in that its foundation is a superior split-phase inverter/charger with dual AC inputs, transfer switching, power management flexibility and multiple operational modes for a wide range of energy scenarios, and greater dynamic stability.

This allows using a more elegant, advanced electro-mechanical coupling center (the GSLC 175-AC-120/240) to achieve AC-coupling instead of relying on the costly, complexity-adding extra frequency circuitry, transformers, and diversion loads used in some conventional systems. Since the OutBack approach is more cost-effective, users have the option of investing in superior, professional-grade energy storage such as OutBack’s EnergyCell GH batteries and IBR-3 integrated rack—and enjoy the utility and security of a system that meets the UL-1741 standard from end-to-end.

GSLC 175-AC120/240 Specifications

| | |
|---|--|
| Maximum Input Voltage | 600 Volts |
| Maximum Input Current | 500 Amps |
| Operating Frequency Range | 50/60 Hz to DC |
| Dimensions (H x W x D) | 17 x 16 x 8.5" / 43.2 x 40.6 x 21.6 cm |
| Shipping Dimensions (H x W x D) | 23.25 x 20.5 x 13.25" / 59.1 x 52.1 x 33.7cm |
| Weight | 40 lbs / 18.1 kg minimum |
| Shipping Weight | 45 lbs / 20.4 kg minimum |
| Enclosure Type | Indoor Type 1 (IP30) |
| Certifications | UL 1741, CSA 22.2, No. 107.1-01 |
| Warranty | Standard 5 year |



OutBack GSLC 175-AC-120/240 AC-Coupling Center

GS Load Center factory pre-wired for AC-Coupled Applications, with inverter DC overcurrent protection and disconnect, dual AC inputs, grid-tie inverter connection and 120/240 VAC maintenance bypass. For use with the Radian GS8048 inverter/charger to provide backup power for grid-tie systems with up to 6kW of AC-Coupled PV input.

Includes: Ground bus bar, 500 Amp DC shunt assembly, neutral bus bar, AC bus bars, two 175A panel mount breakers, remote-operated circuit breaker (ROCB), control relays, four 50A 120/240VAC double pole panel mount breakers, sliding bypass interlock, AC wiring, and enclosure mounting hardware

The following components are sold separately for the GSLC175-AC - 120/240:

- AC Load Circuit Breakers
- PV and DC Circuit Breakers
- PV Ground Fault Detector-Interrupter (GDFI)
- FLEXnet DC Battery Monitor
- Additional DC shunts and GS-SBUS (if desired)

Holds up to eighteen 0.75"(19mm) wide breakers (1 to 80A), two 1.5"(39 mm) wide breakers (included) and one FLEXnet DC. Support for optional AC Input-Output-Bypass Assembly. AC breakers are rated from 10-60 Amps of AC current. New double pole 50 amp breaker is available to support 120/240V input and loads.

AC-Coupling System Components

| Model | Description | Qty |
|----------------------------|--|-----|
| GSLC175-AC-120/240* | AC Coupling GS Load Center | 1 |
| Radian GS8048 | Inverter/Charger 8000W 120/240VAC Grid-Interactive and Standalone Solution with dual AC inputs | 1 |
| MATE3 | System Display and Controller | 1 |
| FW-MB3 | MATE3 Mounting Bracket | 1 |
| EnergyCell 200GH | Full system requires 8 | 8 |
| IBR-2-48-175 | 2 Shelf Integrated Battery Rack | 1 |

* New component



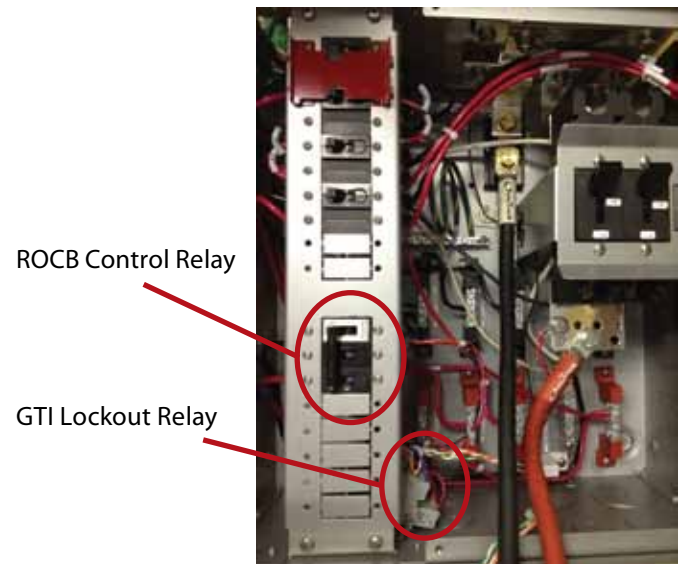
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Internal view of breaker panel



ROCB Control Relay

GTI Lockout Relay

Available From:

