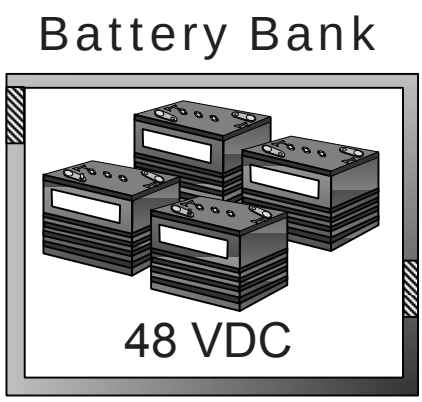
FLEXcoupled
AC-Coupling Solution



OutBack FLEXcoupled Complete AC-Coupling System

- UL1741 End-to-End
- Greater Dynamic Stability
- Better Performance with Generators
- Universal Design; More Compatibility with Other Inverter Brands for More Flexibility
- Split/Phase Design; No Transformers Required for Easier Residential and Light Commercial Integration
- Fully Integrated System from An Industry-Leading Brand

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 use of a more elegant, advanced electro-mechanical coupling center (the GSLC175-AC-120/240) to achieve AC-coupling instead of relying on extra frequency circuitry, transformers and diversion loads used in conventional systems which are more costly and complex. 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-2 integrated battery rack—and enjoying the utility and security of a system that meets the UL1741 standard from end-to-end.

FLEXcoupled Specifications

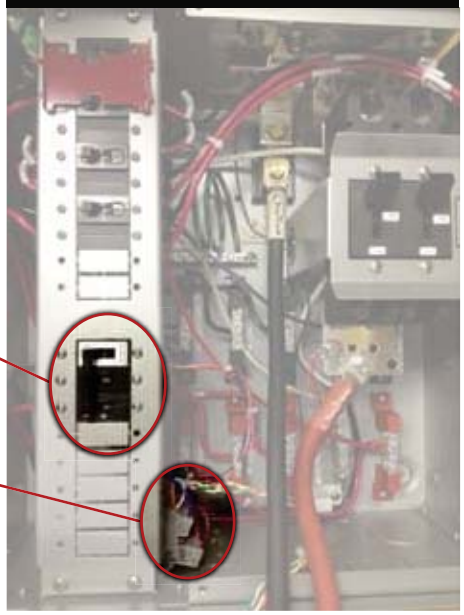
06/2014

AC-Coupling System Components

Product/Model	Description	Quantity
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	Advanced system display and controller	1
FW-MB3	MATE3 mounting bracket	1
Battery Bank	Size Varies with Backup Loads & Solar Array (48 VDC)	Varies

GSLC175-AC-120/240 AC-Coupling Center Specifications	
Maximum Input Voltage	600V
Maximum Input Current	500A
Operating Frequency Range	50/60Hz to DC
Dimensions H x W x D (in/cm)	**Unit**: 17 x 16 x 8.5 / 43.2 x 40.6 x 21.6 **Shipping**: 23.25 x 20.5 x 13.25 / 59.1 x 52.1 x 33.7
Minimum Weight (lb/kg)	**Unit**: 40 / 18.1 **Shipping**: 45 / 20.4
Enclosure Type	Indoor Type 1 (IP30)
Certifications	UL1741, CSA 22.2, No. 107.1-01
Warranty	Standard 5 year

Internal View of Breaker Panel



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

Includes: Ground bus bar, 500 ADC 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 AAC current. New double pole 50 amp breaker is available to support 120/240V input and loads.

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

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