



Radian™ Series

GS8048 Inverter/Charger

- **Grid-Interactive and Stand-alone capability in the same package**
- **8000 Watts of continuous power**
- **Unsurpassed surge capacity**
- **120/240V split-phase power**
- **Dual AC inputs**
- **Field upgradeable firmware**
- **Field serviceable modular design**
- **Simplified parallel design allows easy installation of systems from 8 to 80kW**
- **GSLC load center option allows for quick and easy installation**



The new OutBack Power Radian Series GS8048 inverter/charger provides a comprehensive answer for Grid-interactive and Standalone power systems. Based upon a proven foundation of reliable technology, but engineered from the ground up to simplify the design, distribution, installation and implementation of energy storage, the standardized structure and integration with the GSLC load center make it easy to provide a successful solution to any power requirement, anywhere.

Incorporating a powerful DC to AC true sine wave inverter, battery charger and dual AC inputs, its 120/240V split-phase power provides a total power solution which seamlessly integrates with traditional North American wiring practices.

Unique dual power module design provides high efficiency at both low and full power operation, while providing redundancy for critical applications. The modular design also allows easy field servicing of installed systems.

Complete system interface via the OutBack HUB system communications manager enables the Radian Series GS8048 to be connected with other OutBack Power electronics providing industry leading integration and a robust, scalable power solution. Up to 10 units can be connected in parallel for systems up to 80kW continuous power output.

The Radian Series utilizes a durable stainless steel face with galvanized steel enclosure, providing you with OutBack's signature ruggedness but with a sleek, compact and modern appearance.

OutBack Power inverter/chargers are the only choice when you need a dependable power solution for your home or business.

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Specifications for Model GS8048

Electrical Specifications

Nominal DC Input Voltage	48 VDC
Continuous Output Power at 25 °C	8000 VA
AC Output Voltage	120/240 VAC
AC Output Frequency	60 Hz
Continuous AC Output Current at 25 °C	33.3 AAC at 240 VAC
Waveform	True Sinewave
CEC Weighted Efficiency	TBD
Total Harmonic Distortion (Typical)	<5% THD, Max single voltage harmonic <2%
Output Voltage Regulation	± 2%
Maximum Output Current (1 ms peak)	100 AAC at 240 VAC, 200 AAC at 120 VAC
Maximum Output Current (100 ms RMS)	70.7 AAC at 240 VAC
Overload Capability (100 ms surge)	16.97 kVA at 240 VAC
Overload Capability (5 second)	12 kVa
Overload Capability (30 minute)	9 kVa
Idle Consumption - Invert mode, no load	30 Watts
AC Input Voltage Range (Adjustable)	(L1 or L2) 70 – 140 VAC
AC Input Frequency Range	54 – 66 Hz
Grid-Interactive Voltage Range (Default)	(L1 or L2) 108 – 132 VAC
Grid-Interactive Frequency Range (Default)	(L1 or L2) 59.3 – 60.5 Hz
AC Input Current (Maximum)	50 AAC at 240 VAC
Battery Charger Maximum AC Input	30 AAC at 240 Vac
Battery Charger Maximum DC Output	115 ADC
DC Input Voltage Range	40 – 64 VDC
DC Input Current at Rated Power	200 ADC
Maximum DC Input Current on Surge	424.2 ADC
Auxiliary Output	0.7 ADC at 12 VDC
Auxiliary Relay	10 A at 250 VAC/30 VDC (resistive)

Mechanical Specifications

Inverter Dimensions (H x W x D)	28 x 16 x 8.7" (71.1 x 40.6 x 22.2 cm)
Shipping Dimensions (H x W x D)	14.5 x 34.5 x 21" (36.8 x 87.6 x 53.3 cm)
Inverter Weight	125 lbs (56.8 kg)
Shipping Weight	140 lbs (63.6 kg)
Accessory Ports	Remote Temperature Sensor and MATE3/HUB Communications
Non-volatile Memory	Yes
Field Upgradable Firmware	Yes
Chassis Type	Vented



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