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 voltage**
- **Dual AC inputs**
- **Field upgradeable firmware**
- **Field serviceable modular design**
- **Simplified parallel design allows easy installation of systems from 8 to 80kW**
- **GS Load Center option allows for quick and easy installation**

The new OutBack Power Technologies Radian Series GS8048 inverter/charger provides a comprehensive answer for grid-interactive and stand-alone 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 GS 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 output 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 using the OutBack MATE3 and HUB 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.

OutBack POWER™
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www.outbackpower.com

Specifications for Model GS8048

Electrical Specifications

Nominal DC Input Voltage		48 Vdc
Continuous Output Power at 25°C		8000 VA
AC Output Voltage / Frequency		120/240 Vac / 60 Hz
Continuous AC Output Current at 25°C		33.3 Aac at 240 Vac
Idle Consumption - Invert mode, no load		30 W
CEC Weighted Efficiency		90%
Total Harmonic Distortion	Maximum total harmonic	<5%
	Maximum single voltage harmonic	<2%
Output Voltage Regulation		± 2%
Maximum Output Current	1 ms peak	100 Aac at 240 Vac, 200 Aac at 120 Vac
	100 ms RMS	70.7 Aac at 240 Vac
Overload Capability	100 ms surge	16.97 kVA
	5 second	12 kVa
	30 minute	9 kVa
AC Input Voltage Range (Adjustable)		(L1 or L2) 70 to 140 Vac
AC Input Frequency Range		54 – 66 Hz
Grid-Interactive Voltage Range (IEEE)		(L1 or L2) 108 to 132 Vac
Grid-Interactive Frequency Range (IEEE)		(L1 or L2) 59.3 to 60.5 Hz
Maximum AC Input Current		50 Aac at 240 Vac
Continuous Battery Charge Output		115 Adc
Temperature Range	Operating	0°C to 50°C (power derated above 25°C)
	Storage	-40°C to 60°C
DC Input Voltage Range		40 to 64 Vdc

Mechanical Specifications

Dimensions (H x W x D)	Unit	28 x 16 x 8.7" (71.1 x 40.6 x 22.2 cm)
	Shipping	14.5 x 34.5 x 21" (36.8 x 87.6 x 53.3 cm)
Weight	Unit	125 lbs (56.8 kg)
	Shipping	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
Certifications		ETL Listed to UL1741
		CSA C22.2 No. 107.1

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