

EmiratesGreen

الامارات الخضراء لتجارته المعدات الكهربائية والميكانيكية
EmiratesGreen Electrical & Mechanical Trading Est.

P.O. Box: 110507 | Phone: +971 2 491 0 757 | Abu Dhabi, U.A.E
Email: solar@emiratesgreen.com | Web: www.emiratesgreen.ae



Radian™ Series

GS8048 Inverter/Charger



- Grid-interactive and stand-alone capability in the same package
- 8000W 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 Radian Series GS8048 Grid/Hybrid™ (fully-flexible grid-interactive/off-grid) inverter/charger is engineered from the ground up making system design and installation easier and faster.

A fully-integrated solution, the Radian delivers 8,000W of pure sinewave continuous power with unsurpassed surge capacity to start the most demanding appliances. The Radian Series simplifies the configuration, distribution, and implementation of energy storage through a standardized approach when integrated with an OutBack GS load center, demonstrating OutBack Power's commitment to delivering clean, reliable power to homes, businesses and other facilities.

The Radian's Dual AC Inputs automatically switch between an active grid and generator input without the need for costly external transfer switch. In areas where the ability to sell energy back to the grid may be restricted or limited, the Radian's offset function enables users to manage their energy consumption by switching between PV, grid and battery energy sources and "off-setting" their dependence on the grid. Advanced technology allows the Radian to seamlessly manage power from multiple sources and direct battery functions at the same time.

A unique dual-power module design ensures high efficiency in both low and full power operation as well as redundancy in both low and full power operation as well as redundancy in mission-critical applications. The Radian's modular system architecture and simplified parallel design supports system scaling of up to ten inverters delivering 80kW.

The 120/240V 60Hz split-phase Radian is an 8,000W power solution that seamlessly integrates with traditional North American wiring practices. System integration and programming is easier with OutBack's MATE3 and HUB communications management devices. Advanced front-vented layout provides optimum cooling in zero-clearance installations. A field-serviceable design simplifies maintenance and firmware updates without the addition of specialized equipment.

Model: GS8048	
Nominal DC Input Voltage	48VDC
Continuous Output Power (@ 25°C)	8000VA
AC Output Voltage (Selectable)	120/240VAC
AC Output Frequency (Selectable)	60Hz
Continuous AC Output Current (@ 25°C)	33.3AAC @ 240VAC
Idle Consumption (Invert Mode, No Load)	30W
Typical Efficiency	93%
CEC Weighted Efficiency	90%
Peak Efficiency	95%
Total Harmonic Distortion	Max. Total Harmonic: <5%, Max. Single Voltage Harmonic: <2%
Output Voltage Regulation	±2%
Maximum Output Current	1ms Peak: 100AAC @ 240VAC, 200AAC @ 120VAC 100ms RMS: 70.7AAC @ 240VAC
Overload Capacity	100ms Surge: 16.97kVA 5 Seconds: 12.0kVA 30 Minutes: 9.0kVA
AC Input Voltage Range (Adjustable)	(L1-N or L2-N) 70 to 140VAC
AC Input Frequency Range (Default)	54 to 66Hz @ 60Hz
Grid-Interactive Voltage Range (Default)	(L1-N or L2-N) 106 to 132VAC
Grid-Interactive Frequency Range	59.3 to 60.5Hz
Maximum AC Input Current	50AAC @ 240VAC
Maximum Utility Interactive Current	32A
Continuous Battery Charge Output	115.0ADC
DC Input Voltage Range	40 to 64VDC
Temperature Range (Power derated above 25°C)	Rated: 0 to 50°C Maximum: -25 to 60°C
Accessory Ports	Remote Temperature Sensor, 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
Warranty	Standard 5 year, available 10 year
Weight (lb/kg)	Unit: 125 / 56.7 Shipping: 140 / 63.5
Dimensions H x W x D (in/cm)	Unit: 28 x 16 x 8.7 / 71.1 x 40.6 x 22.1 Shipping: 34.5 x 21 x 14.5 / 87.6 x 53.3 x 36.8

Worldwide Corporate Offices

North America	Latin America	Europe	Asia Pacific
Tel: +1 360.435.6030	Tel: +1 561.792.9651	Tel: +49 9122.79889.0	Tel: +852 2736.8663
Fax: +1 360.435.6019	Fax: +1 561.792.7157	Fax: +49 9122.79889.21	Fax: +852 2199.7988

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