



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 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 8,000 Watts 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 Grid/Hybrid Radian incorporates OutBack's FLEXgrid™ technology for full operation flexibility. 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 8,000 Watt 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.

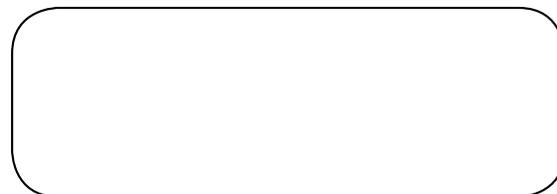
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Radian Series Specifications

| | | GS8048 |
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| 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 Amps AC at 240 VAC |
| Idle Consumption - Invert mode, no load | | 30 W |
| Typical Efficiency | | 93% |
| 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 Amps AC at 240 VAC, 200 Amps AC at 120 VAC |
| | 100 ms RMS | 70.7 Amps AC at 240 VAC |
| Overload Capability | 100 ms surge | 16.97 kVa |
| | 5 seconds | 12 kVa |
| | 30 minute | 9 kVa |
| AC Input Voltage Range (Adjustable) | | (L1 or L2) 70 to 140 VAC |
| AC Input Frequency Range | | 54 to 66 Hz |
| Grid-Interactive Voltage Range (IEEE) | | (L1 or L2) 108 to 132 VAC (IEEE) |
| Grid-Interactive Frequency Range (IEEE) | | (L1 or L2) 59.3 to 60.5 Hz (IEEE) |
| Maximum AC Input Current | | 50 Amps AC at 240 VAC |
| Continuous Battery Charge Output | | 115 Amps DC |
| DC Input Voltage Range | | 40 to 64 VDC |
| Temperature Range | Rated | 0 to 50°C (power derated above 25°C) |
| | Maximum | -25 to 60°C (Functions, but does not necessary meet all components specifications) |
| 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 |
| Warranty | | Standard 5 year Warranty |
| Weight | Unit | 125 lbs (56.7 kg) |
| | Shipping | 140 lbs (63.5 kg) |
| Dimensions (H x W x D) | Unit | 28 x 16 x 8.7" (71.1 x 40.6 x 22.1 cm) |
| | Shipping | 14.5 x 34.5 x 21" (36.8 x 87.6 x 53.3 cm) |

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