Three Reasons to Choose the Radian Series Inverter/Charger Series from OutBack Power:

1. ENGINEERED FOR RELIABILITY
   - Extensive quality and reliability testing, including Highly Accelerated Life Testing (HALT)
   - 15 years of experience manufacturing products for fault-intolerant, mission-critical applications
   - Standard 5 year warranty (extended 10 year warranty available)
   - Field upgradeable software

2. DESIGNED FOR FLEXIBILITY
   - Modular, stackable: up to nine units can be combined for three-phase operation and ten in parallel, single-phase operation
   - Compliant with California Rule 21 and Hawaii 14H grid support requirements
   - Seven different programmable operational modes, with generator assist
   - Advanced Battery Charging (ABC) programmability accommodates traditional and advanced chemistry batteries
   - GridZero operating mode minimizes grid dependence in areas where incentives are changing and utility sell-back is limited
   - 8000 and 4000VA of continuous power with dual AC inputs and peak operating efficiency of 96%
   - Off-grid and grid-tied functionality in one unit
   - Integrates both grid and generator with dual inputs

3. EASY-TO-INSTALL AND MAINTAIN
   - System configures quickly with smart programming wizards
   - Pre-wired GS load center (GSLC) option allows for quick, easy installation
   - Complete balance-of-system components available
   - Field-serviceable modular design and global technical support
   - Monitor, command and control from any internet-connected device with OPTICS RE
### Radian A-Series Specifications

**Models:**

<table>
<thead>
<tr>
<th>Models</th>
<th>GS8048A</th>
<th>GS4048A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instantaneous Power</td>
<td>16970VA</td>
<td>8500VA</td>
</tr>
<tr>
<td>Surge Power (5 sec)</td>
<td>12000VA</td>
<td>6000VA</td>
</tr>
<tr>
<td>Peak Power (30 min)</td>
<td>9000VA</td>
<td>4500VA</td>
</tr>
<tr>
<td>Continuous Power Rating (at 25°C)</td>
<td>8000VA</td>
<td>4000VA</td>
</tr>
<tr>
<td>Nominal DC Inpt Voltage</td>
<td>48VDC</td>
<td>48VDC</td>
</tr>
<tr>
<td>AC Output Voltage (selectable)</td>
<td>120/240VAC (200-260VAC)</td>
<td>120/240VAC (200-260VAC)</td>
</tr>
<tr>
<td>AC Output Frequency (selectable)</td>
<td>60Hz (50Hz)</td>
<td>60Hz (50Hz)</td>
</tr>
<tr>
<td>Continuous AC Output Current (at 25°C)</td>
<td>33.3AAC @ 240VAC</td>
<td>16.7AAC</td>
</tr>
</tbody>
</table>

**Idle Power**

- **Typical Efficiency**: 93%
- **CEC Weighted Efficiency**: 92.5%
- **Total Harmonic Distortion**: Typical: <2%, Maximum: <5%
- **Output Voltage Regulation**: ±2%

**AC Input Voltage Range (MATE3 Adjustable)**

- L1-N or L2-N: 85 to 140VAC

**AC Input Frequency Range**

- 60Hz: 54 to 66Hz
- 50Hz: 45 to 55Hz

**Grid-Interactive Voltage Range**

- L1-N or L2-N: 85 to 140VAC

**Grid-Interactive Frequency Range**

- 59.3 to 60.5Hz

**Maximum AC Input Current**

- 50AAC @ 240VAC

**Maximum Utility Interactive Current**

- 30A

**Continuous Battery Charge Output**

- 115ADC

**DC Input Voltage Range**

- 40 to 64VDC

**Temperature Range Rated**: -20 to 50°C

**Non-Volatile Memory**: Yes

**Field Upgradeable Firmware**: Yes

**Chassis Type**: Vented

#### Power Rating Notes

Inverters that specify power in VA but do not use the unity standard Power Factor (PF) could have misleading power specifications. Volt-Amps (VA) is a total inverter output, while Watts (W) represent the power consumed by the electrical loads. PF, which varies by types of loads, is the ratio of W to VA, and the difference between the two is power in the circuit that does no useful work. At 1.0PF (unity), all power is used. This is the industry-standard used by OutBack Power.

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**OutBack A-Series Efficiency Rating Chart**

- **93% (Typical)**
- **92.5% (CEC)**

**Typical Efficiency Rating**

- Real world efficiency with variable loads

**CEC Efficiency Rating**

- Most stringent US rating

**GS8048A**: 93%

**GS8048A**: 92.5%

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Blue Pacific Solar™

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