Three Reasons to Choose the FLEXpower Radian Integrated System from OutBack Power:

1. **ENGINEERED FOR FASTER, EASIER INSTALLATION**
   - Factory tested, pre-wired and pre-configured system for fast installation
   - Includes a fully integrated GS load center for quick and easy connections
   - Charge controller, programming and networking components are completely integrated—just install the mounting bracket, hang the system on a wall, make the necessary connections, site specific programming and the system is fully operational
   - Optimized system footprint for cleaner installations in half the time

2. **DESIGNED FOR FLEXIBILITY**
   - **4kW**: Ideal for smaller power applications including homes, cabins, remote communication sites and backup power systems.
   - **8kW**: Ideal for medium-sized power requirements including larger homes, light commercial or backup power systems.
   - Radian inverter/charger is programmable for seven different operational modes, with generator assist
   - Advanced Battery Charging (ABC) programmability accommodates traditional and advanced chemistry batteries
   - 300VDC models provide up to 99% peak efficiency with FLEXmax 100 charge controller

3. **BUILT FOR DEPENDABLE, LONG-TERM USE**
   - Extensive quality and reliability testing
   - 15 years of experience manufacturing and improving products for fault-intolerant, mission-critical applications
   - Monitor, command and control from any internet-connected device with OPTICS RE
   - Standard 5 year warranty (extended 10 year warranty available)
   - Field-upgradable software, field-serviceable modular design and global technical support
   - Components carry all of the necessary ETL certifications

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**OutBack FLEXpower Radian Typical System Integration:**

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### FLEXpower Radian Specifications

**Model**

<table>
<thead>
<tr>
<th>Model*</th>
<th>Description</th>
<th>Inverter</th>
<th>GSLC</th>
<th>Bypass</th>
<th>Inverter OCPD**</th>
<th>PV OCPD**</th>
<th>GFDI</th>
<th>RTS</th>
<th>Charge Controller</th>
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<tbody>
<tr>
<td>FPR-4048A-300VDC</td>
<td>FLEXpower Radian GS4048A</td>
<td>GS4048A</td>
<td>GSLC-PV1-300VDC</td>
<td>120/240VAC</td>
<td>175A</td>
<td>80A</td>
<td>Yes</td>
<td>Yes</td>
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<td>GS4048A</td>
<td>GSLC-PV1-120/240</td>
<td>120/240VAC</td>
<td>175A</td>
<td>80A</td>
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<td>FLEXpower Radian GS8048A</td>
<td>GS8048A</td>
<td>GSLC-PV1-300VDC</td>
<td>120/240VAC</td>
<td>(2x) 175A</td>
<td>(2x) 80A</td>
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<td>Yes</td>
<td>(2) FLEXmax 100</td>
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<td>FLEXpower Radian GS8048A</td>
<td>GS8048A</td>
<td>GSLC-PV1-120/240</td>
<td>120/240VAC</td>
<td>(2x) 175A</td>
<td>(2x) 80A</td>
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<td>Yes</td>
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</tbody>
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**Details**

- **FLEXpower Radian 4048A 300VDC**
  - Inverter: GS4048A
  - GSLC: GSLC-PV1-300VDC
  - Bypass: 120/240VAC
  - Inverter OCPD: 175A
  - PV OCPD: 80A
  - GFDI: Yes
  - RTS: Yes
  - Charge Controller: (1) FLEXmax 100

- **FLEXpower Radian 4048A**
  - Inverter: GS4048A
  - GSLC: GSLC-PV1-120/240
  - Bypass: 120/240VAC
  - Inverter OCPD: 175A
  - PV OCPD: 80A
  - GFDI: Yes
  - RTS: Yes
  - Charge Controller: (1) FLEXmax 80

- **FLEXpower Radian 8048A 300VDC**
  - Inverter: GS8048A
  - GSLC: GSLC-PV1-300VDC
  - Bypass: 120/240VAC
  - Inverter OCPD: (2x) 175A
  - PV OCPD: (2x) 80A
  - GFDI: Yes
  - RTS: Yes
  - Charge Controller: (2) FLEXmax 100

- **FLEXpower Radian 8048A**
  - Inverter: GS8048A
  - GSLC: GSLC-PV1-120/240
  - Bypass: 120/240VAC
  - Inverter OCPD: (2x) 175A
  - PV OCPD: (2x) 80A
  - GFDI: Yes
  - RTS: Yes
  - Charge Controller: (2) FLEXmax 80

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**Radian GS8048A Power Factor Chart**

<table>
<thead>
<tr>
<th>Power Factor</th>
<th>Industry-Standard</th>
<th>Non-Industry Standard</th>
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</tr>
<tr>
<td>0.8</td>
<td>0.9</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Radian GS8048A Power Rating Chart**

- **Instantaneous Power Rating**
  - Most stringent, massive load start: GS8048A: 16970VA
- **Surge Power Rating**
  - Less stringent load start: GS8048A: 12000VA
- **Peak Power Rating**
  - Frequent “heavy duty” load requirements: GS8048A: 9000VA
- **Continuous Power Rating**
  - Sustained “real world” load requirements: GS8048A: 8000VA

**Radian GS8048A Efficiency Rating Chart**

- **Efficiency**
  - 2kVA: 92.5%
  - 4kVA: 92.5%
  - 6kVA: 92.5%
  - 8kVA: 92.5%

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**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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*All pre-wired systems include a Radian Series inverter/charger, FLEXmax charge controller(s), MATE3s system display and communications, FLEXnet DC system monitor, AC and DC wiring boxes, HUB10.3 communications, surge protector and remote temperature sensor (RTS). The FLEXpower Radian is also equipped with battery and PV array breakers, GFDI and input-output-bypass. (Note: GFDI is integrated in the FM100 charge controller with 300VDC models.) See individual product specifications or product guide for full specifications.

**Overcurrent protective device.**

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