

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
- 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
- 7000 and 3500VA 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

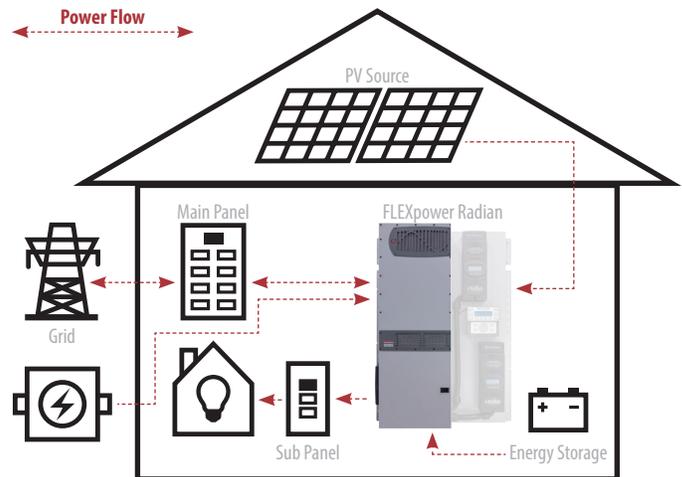


GS7048E/GS3548E



Optional GS Load Center (GSLC)

OutBack FLEXpower Radian Typical System Integration (w/ Radian Inverter/Charger):



OUTBACK POWER — MASTERS OF THE OFF-GRID. FIRST CHOICE FOR THE NEW GRID.



MAKE THE POWER

- FLEXpower Integrated Systems
- Inverter/Chargers & Charge Controllers



STORE THE ENERGY

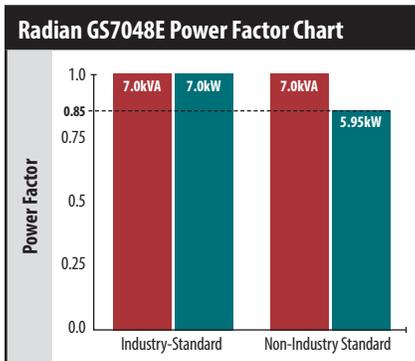
- EnergyCell RE, GH, NC and OPzV Batteries
- Battery Enclosures and Racking



MANAGE THE SYSTEM

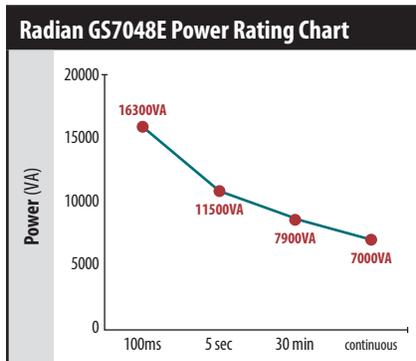
- OPTICS RE System Monitoring and Control
- MATE3 System Display and Communications

Models:	GS7048E	GS5348E
Instantaneous Power (100ms)	16300VA	8200VA
Surge Power (5 sec)	11500VA	5800VA
Peak Power (30 min)	7900VA	4000VA
Continuous Power Rating (@ 25°C)	7000VA	3500VA
Nominal DC Input Voltage	48VDC	48VDC
AC Output Voltage (selectable)	230VAC (210-250VAC)	230VAC (210-250VAC)
AC Output Frequency (selectable)	50Hz (60Hz)	50Hz (60Hz)
Continuous AC Output Current (@ 25°C)	30AAC	15.2AAC
Idle Power	Invert mode, no load: 34W Search: 10W	Invert mode, no load: 34W Search: 10W
Typical Efficiency	92%	92%
Peak Efficiency	96%	96%
Total Harmonic Distortion	Typical: <2% Maximum: <5%	Typical: <2% Maximum: <5%
Output Voltage Regulation	±2%	±2%
AC Input Voltage Range (MATE3 Adjustable)	L-N: 170 to 290VAC	L-N: 170 to 290VAC
AC Input Frequency Range	@ 50Hz: 45 to 55Hz @ 60Hz: 54 to 66Hz	@ 50Hz: 45 to 55Hz @ 60Hz: 54 to 66Hz
Grid-Interactive Voltage Range	L-N: 208 to 252VAC	L-N: 208 to 252VAC
Grid-Interactive Frequency Range	@ 50Hz: 47 to 51Hz @ 60Hz: 57 to 61Hz	@ 50Hz: 47 to 51Hz @ 60Hz: 57 to 61Hz
Maximum AC Input Current	50AAC	50AAC
Maximum Utility Interactive Current	30A	15A
Continuous Battery Charge Output	100ADC	50ADC
Advanced Battery Charging	Flooded, gel, AGM, lithium-ion and flow chemistry	Flooded, gel, AGM, lithium-ion and flow chemistry
DC Input Voltage Range	40 to 64VDC	40 to 64VDC
Accessory Ports	Remote temperature sensor (included), MATE3 and HUB communications	Remote temperature sensor (included), MATE3 and HUB communications
Warranty	Standard 5 year, extended 10 year available	Standard 5 year, extended 10 year available
Weight (lb/kg)	Unit: 125 / 56.7 Shipping: 140 / 63.5	Unit: 82 / 37.2 Shipping: 94 / 42.6
Dimensions H x W x L (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	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
Temperature Range	Rated: -20 to 50°C Maximum: -40 to 60°C	Rated: -20 to 50°C Maximum: -40 to 60°C
Listings/Certifications	IEC 62477-1, AS4777.2, AS4777.3, EN61000-6-1, EN61000-6-3, EN61000-3-2, EN61000-3-3, AS3100, CE, RoHS compliant per directive 2011/65/EU	IEC 62477-1, AS4777.2, AS4777.3, EN61000-6-1, EN61000-6-3, EN61000-3-2, EN61000-3-3, AS3100, CE, RoHS compliant per directive 2011/65/EU



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.



Instantaneous Power Rating

Most stringent, massive load start **GS7048E:** 16300VA

Surge Power Rating

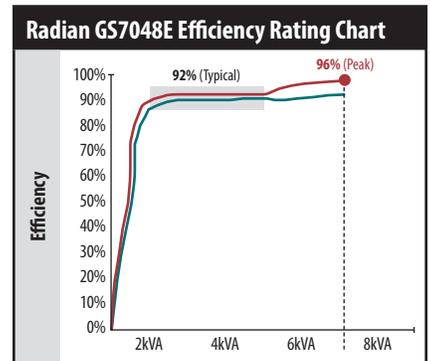
Less stringent load start **GS7048E:** 11500VA

Peak Power Rating

Frequent "heavy duty" load requirements **GS7048E:** 7900VA

Continuous Power Rating

Sustained "real world" load requirements **GS7048E:** 7000VA



INVERTING **SELLING**

Peak Efficiency Rating

Highest efficiency rating achievable **GS7048E:** 96%

Typical Efficiency Rating

Real world efficiency with variable loads **GS7048E:** 92%