

Three Reasons to Choose the EnergyCell RE Series from OutBack Power:

1. PURPOSE-BUILT

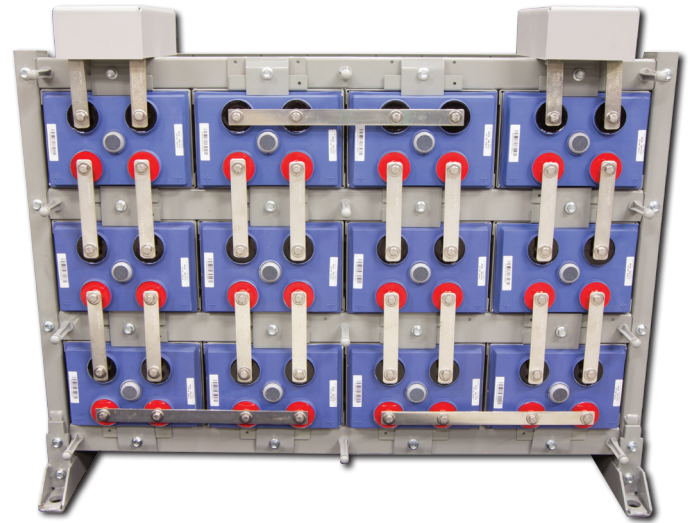
- Designed for off-grid or grid-tied battery backup residential and light commercial applications
- 1,800 cycles @ 50% depth of discharge
- Space-saving 4x6 standard 48V system configuration
- Battery frame design allows for maximum heat dissipation
- 100% out of box initial battery capacity

2. EASY-TO-INSTALL AND MAINTAIN

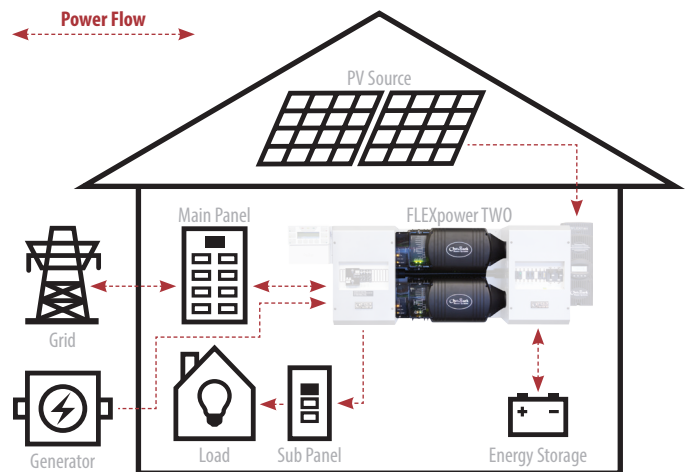
- VRLA-AGM technology means 99% gas recombination efficient, no periodic watering of cells, no re-torquing of terminal connections, and no equalization charge under standard operating conditions.
- Steel module design, cells factory installed in permanent steel modules with 1 or 2 cells per can, allows for ease of replacement
- Standard top termination, optional side termination
- Clear flame retardant front safety shields allow for easy visual inspection without removal of cells
- Flame-retardant battery jars for increased safety
- OPTICS RE connectivity means real-time access to critical battery performance data
- Batteries and power electronics can be installed in the same area¹

3. SINGLE-BRAND SYSTEM SOLUTION

- Optimized to work seamlessly with OutBack power conversion equipment
- Ease of ordering with SystemEdge package configurations— to learn more visit www.outbackpower.com
- Single point of contact for all technical system inquiries
- Quality and reliability from OutBack Power assures customers receive the best technologies for renewable energy systems in the market today



OutBack EnergyCell RE High Capacity Series Typical System Integration:



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:	800RE	1100RE	1300RE	1600RE	2000RE	2200RE	2700RE
Nominal Voltage Per Cell	2V	2V	2V	2V	2V	2V	2V
Capacity 20Hr Rate (1.75VPC)	672	960	1148	1378	1716	1836	2288
Capacity 100Hr Rate (1.75VPC)	810	1150	1340	1600	2070	2140	2770
Watts Per Cell 15min Rate (1.67VPC)	1230	1757	1995	2394	3071	3192	4094
Cycle Life 50% DOD (77°F/25°C)	1800 cycles	1800 cycles	1800 cycles	1800 cycles	1800 cycles	1800 cycles	1800 cycles
Optimal Operating Temperature Range	73.4 to 78.8°F (23 to 26°C)	73.4 to 78.8°F (23 to 26°C)	73.4 to 78.8°F (23 to 26°C)	73.4 to 78.8°F (23 to 26°C)	73.4 to 78.8°F (23 to 26°C)	73.4 to 78.8°F (23 to 26°C)	73.4 to 78.8°F (23 to 26°C)
OCV Per Cell Limit[†]	2.05	2.05	2.05	2.05	2.05	2.05	2.05
Initial Charge Voltage Per Cell^{**}	2.27	2.27	2.27	2.27	2.27	2.27	2.27
Float Voltage Per Cell (77°F/25°C)	2.25	2.25	2.25	2.25	2.25	2.25	2.25
Float Voltage Per Cell (95°F/35°C)	2.21	2.21	2.21	2.21	2.21	2.21	2.21
For Cycle Service the Absorb Voltage is the Equalization Voltage^{***} (69.8 to 89.6°F/21 to 32°C)	2.32	2.32	2.32	2.32	2.32	2.32	2.32
Maximum Charge Current (A)	148.75	212.5	250	300	375	400	500
Shelf Life (77°F/25°C)	6 months	6 months	6 months	6 months	6 months	6 months	6 months
Short Circuit Current (A)	4728	6748	7722	9267	12411	12337	16548
Internal Resistance (micro Ohm)	441	309	270	225	167	169	126
Terminal Torque (Intercell Connects)	88in-lbs	88in-lbs	88in-lbs	88in-lbs	88in-lbs	88in-lbs	88in-lbs
Hardware Specification (Intercell Connects)	M8 bolt, lock and flat washer	M8 bolt, lock and flat washer	M8 bolt, lock and flat washer	M8 bolt, lock and flat washer	M8 bolt, lock and flat washer	M8 bolt, lock and flat washer	M8 bolt, lock and flat washer
Weight Per Cell (lbs/kg)	114.3 / 51.8	162.3 / 73.6	188.3 / 85.4	222.3 / 100.8	272.3 / 123.5	290.3 / 131.7	358.3 / 162.5
Dimensions	Please refer to the OutBack EnergyCell High Capacity specifications poster for system dimensions.						

[†]Before installation OCV is open circuit voltage. ^{**}Represents 60Hrs charge time at 16 to 32°C. ^{***}Equalize in the following conditions if float voltage of any cell is less than 2.17VPC or the float voltage range after 6 months is outside the ±0.08V of nominal setting. 24hrs after current stabilization, (3hrs without charge), at ambient temperatures from 70 to 90°F (21 to 32°C). For complete information on how to program bulk voltage, absorb time and float voltages please refer to the "Setup of OutBack Power AGM batteries" on the OutBack Power website.

[†]Consult local and regional electrical code for proper installation of energy storage requirements.