

# EmiratesGreen

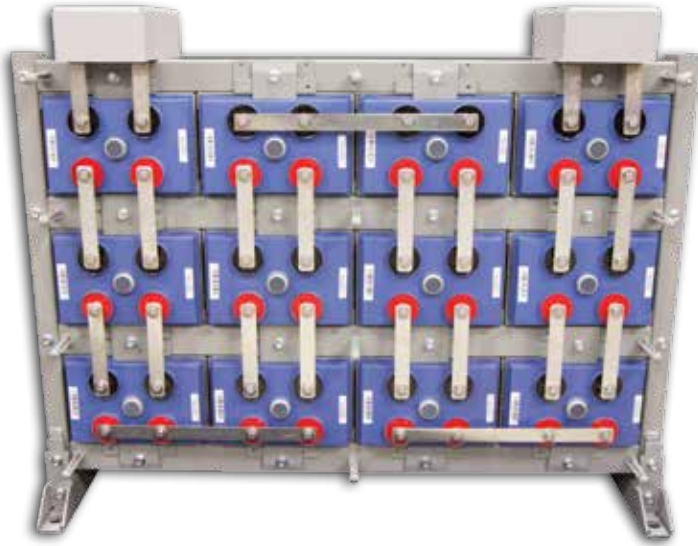
الامارات الخضراء لتجارته المعدات الكهربائية والميكانيكية  
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# EnergyCell® RE High Capacity Battery

2V VRLA AGM Battery



- 100% "Out-of-Box" Initial Battery Capacity
- Valve Regulated Lead Acid (VRLA) Absorbed Glass Mat (AGM) Technology: Low Maintenance with No Watering Required
- Battery Frame Design Allows for Maximum Heat Dissipation
- Steel Module Design, Cells Factory Installed in Permanent Steel Modules with 1 or 2 Cells Per Can
- 4x6 Standard 48V System Configuration with Multiple Module Configurations Available for Maximum Flexibility
- Simplified Installation
- Top Termination Standard, Optional Side Termination
- Clear Flame Retardant Front Safety Shields Allow for Easy Visual Inspection Without Removal
- Flame-Retardant Battery Jars for Increased Safety

**The EnergyCell® RE High Capacity battery family offers an ideal solution for large applications requiring the use of Valve Regulated Lead Acid (VRLA) batteries.**

The EnergyCell RE High Capacity battery's modular design concept with steel-can casing and its integral racking system provide a cost-effective battery system with a compact, quick and simple installation process.

The EnergyCell RE High Capacity battery system's cell design, with Absorbed Glass Mat (AGM) technology, incorporates thicker positive plates for longer battery life. The welded/epoxy dual-post sealed design provides the highest integrity battery casing in the industry: large copper posts design also enhances high rate performance. Cells are

encased in the module's dedicated protective steel can encases the cells to maintain constant, uniform compression for the life of the battery.

The easy-to-assemble racking provides total flexibility for system configuration and allows fast, simple installation even in the most difficult locations. The EnergyCell RE High Capacity battery, with its optimized recombination chemistry and extra thick plates, has excellent performance, extended service life, and low maintenance requirements for grid-interactive and off-grid renewable energy and UPS applications.

| Models:   | 800RE   | 1100RE                           | 1300RE                           | 1600RE                           | 2000RE                           | 2200RE                           | 2700RE                           |
|---|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <b>Nominal Voltage Per Cell</b>                                     | 2V  | 2V                               | 2V                               | 2V                               | 2V                               | 2V                               | 2V                               |
| <b>Capacity 20Hr Rate (1.75VPC)</b>                                 | 672   | 960                              | 1148                             | 1378                             | 1716                             | 1836                             | 2288                             |
| <b>Capacity 100Hr Rate (1.75VPC)</b>                                | 810   | 1150                             | 1340                             | 1600                             | 2070                             | 2140                             | 2770                             |
| <b>Watts Per Cell 15min Rate (1.67VPC)</b>                          | 1230  | 1757                             | 1995                             | 2394                             | 3071                             | 3192                             | 4094                             |
| <b>Cycle Life 50% DOD (77°F/25°C)</b>                               | 1800 cycles   | 1800 cycles                      | 1800 cycles                      | 1800 cycles                      | 1800 cycles                      | 1800 cycles                      | 1800 cycles                      |
| <b>Optimal Operating Temperature Range</b>                          | 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)      |
| <b>OCV Per Cell Limit*</b>  | 2.05  | 2.05                             | 2.05                             | 2.05                             | 2.05                             | 2.05                             | 2.05                             |
| <b>Initial Charge Voltage Per Cell**</b>                            | 2.27  | 2.27                             | 2.27                             | 2.27                             | 2.27                             | 2.27                             | 2.27                             |
| <b>Float Voltage Per Cell (77°F/25°C)</b>                           | 2.25  | 2.25                             | 2.25                             | 2.25                             | 2.25                             | 2.25                             | 2.25                             |
| <b>Float Voltage Per Cell (95°F/35°C)</b>                           | 2.21  | 2.21                             | 2.21                             | 2.21                             | 2.21                             | 2.21                             | 2.21                             |
| <b>Equalize Voltage Per Cell***<br/>(69.8 to 89.6°F/21 to 32°C)</b> | 2.32  | 2.32                             | 2.32                             | 2.32                             | 2.32                             | 2.32                             | 2.32                             |
| <b>Maximum Charge Current (A)</b>                                   | 148.75  | 212.5                            | 250                              | 300                              | 375                              | 400                              | 500                              |
| <b>Shelf Life (77°F/25°C)</b>                                       | 6 months  | 6 months                         | 6 months                         | 6 months                         | 6 months                         | 6 months                         | 6 months                         |
| <b>Short Circuit Current (A)</b>                                    | 4728  | 6748                             | 7722                             | 9267                             | 12411                            | 12337                            | 16548                            |
| <b>Internal Resistance (micro Ohm)</b>                              | 441   | 309                              | 270                              | 225                              | 167                              | 169                              | 126                              |
| <b>Terminal Torque (Inter cell Connects)</b>                        | 88in-lbs  | 88in-lbs                         | 88in-lbs                         | 88in-lbs                         | 88in-lbs                         | 88in-lbs                         | 88in-lbs                         |
| <b>Hardware Specification<br/>(Inter cell Connects)</b>             | M8 bolt,<br>lock and flat washer  | M8 bolt,<br>lock and flat washer | M8 bolt,<br>lock and flat washer | M8 bolt,<br>lock and flat washer | M8 bolt,<br>lock and flat washer | M8 bolt,<br>lock and flat washer | M8 bolt,<br>lock and flat washer |
| <b>Weight Per Cell (lbs/kg)</b>                                     | 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                    |
| <b>Dimensions</b>   | 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).

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