



# EnergyCell RE Top Terminal

VRLA Battery for Renewable Energy Storage



- Designed for Renewable Energy Applications
- High-Density Pasted Plates for High Cycle Life
- High Recharge Efficiency
- Compact Footprint for Higher Energy Density Requirements
- Thermally Welded Case-to-Cover Bond to Eliminate Leakage
- Computer Generated Grid Design Optimized for High Power Density
- Low-Calcium Grid Alloy for Reduced Gas Emissions, Ease of Recycling, and Longer Cycling Life
- Frame-Arresting, One-Way Pressure-Relief Vent for Safety and Longer Life
- UL-Recognized Component
- Up to 2-Year Full Replacement Warranty

**The EnergyCell RE Top Terminal Valve Regulated Lead Acid (VRLA) battery is designed for high power density in renewable energy cycling applications.**

It features Absorbed Glass Mat (AGM) technology for efficient gas recombination of up to 99%, and freedom from electrolyte maintenance. EnergyCell RE batteries also feature low profile terminals with threaded copper alloy inserts providing increased safety and reduced maintenance. The top terminal models are ideal for moderate power applications, and are designed to fit in standard Case 31 style enclosures to fit a wide variety of installation scenarios.

| Models:   | EnergyCell 34RE   | EnergyCell 52RE   | EnergyCell 78RE   | EnergyCell 95RE   | EnergyCell 106RE  |
|---|---|---|---|---|---|
| <b>Cells Per Unit</b>   | 6   | 6   | 6   | 6   | 6   |
| <b>Voltage Per Unit</b>   | 12VDC   | 12VDC   | 12VDC   | 12VDC   | 12VDC   |
| <b>Operating Temperature Range</b><br>(w/ temperature compensation) | <b>Discharge:</b> -40 to 71°C (-40 to 160°F)<br><b>Charge:</b> -23 to 60°C (-10 to 140°F)   | <b>Discharge:</b> -40 to 71°C (-40 to 160°F)<br><b>Charge:</b> -23 to 60°C (-10 to 140°F) | <b>Discharge:</b> -40 to 71°C (-40 to 160°F)<br><b>Charge:</b> -23 to 60°C (-10 to 140°F) | <b>Discharge:</b> -40 to 71°C (-40 to 160°F)<br><b>Charge:</b> -23 to 60°C (-10 to 140°F) | <b>Discharge:</b> -40 to 71°C (-40 to 160°F)<br><b>Charge:</b> -23 to 60°C (-10 to 140°F) |
| <b>Optimal Operating Temperature Range</b>                          | 23 to 27°C (74 to 80°F)   | 23 to 27°C (74 to 80°F)   | 23 to 27°C (74 to 80°F)   | 23 to 27°C (74 to 80°F)   | 23 to 27°C (74 to 80°F)   |
| <b>Float Charging Voltage</b>                                       | 13.5 to 13.8VDC<br>unit average at 25°C (77°F)  | 13.5 to 13.8VDC<br>unit average at 25°C (77°F)  | 13.5 to 13.8VDC<br>unit average at 25°C (77°F)  | 13.5 to 13.8VDC<br>unit average at 25°C (77°F)  | 13.5 to 13.8VDC<br>unit average at 25°C (77°F)  |
| <b>Absorbed Voltage</b>   | 14.4VDC, unit average at 25°C (77°F)  | 14.4VDC, unit average at 25°C (77°F)  | 14.4VDC, unit average at 25°C (77°F)  | 14.4VDC, unit average at 25°C (77°F)  | 14.4VDC, unit average at 25°C (77°F)  |
| <b>Maximum Charge Current</b>                                       | 9.9A  | 15.0A   | 22.5A   | 26.4A   | 30.0A   |
| <b>Self Discharge</b>   | Battery can be stored up to 6 months at 25°C (77°F) before a freshening charge is required. Batteries stored at temperatures greater than 25°C (77°F) will require recharge sooner than batteries stored at lower temperatures. |   |   |   |   |
| <b>Terminal</b>   | Copper alloy insert terminal to accept 10"-32 UNC bolt  |   | Copper alloy insert terminal to accept ¼"-20 UNC bolt                                     |   |   |
| <b>Terminal Hardware Initial Torque</b>                             | 30in-lbs (3.4Nm)  | 30in-lbs (3.4Nm)  | 110in-lbs (12.4Nm)  | 110in-lbs (12.4Nm)  | 110in-lbs (12.4Nm)  |
| <b>Weight (lb/kg)</b>   | 27 / 12.2   | 40 / 18.1   | 54 / 24.5   | 64 / 29   | 69 / 31.3   |
| <b>Dimensions H x D x W (in/cm)</b>                                 | 6.80 x 7.76 x 5.19 /<br>17.27 x 19.7 x 13.18  | 8.07 x 9 x 5.48 /<br>20.51 x 22.86 x 13.92  | 8.01 x 10.76 x 6.83 /<br>20.35 x 27.32 x 17.34  | 8.06 x 12.51 x 6.83 /<br>20.48 x 31.78 x 17.34  | 8.52 x 13.42 x 6.80 /<br>21.64 x 34.09 x 17.27  |

| Discharge in Hours:     | 12V Ampere Hour Capacity to 1.75 Volts Per Cell at 77°F (25°C) |      |      |      |      |      |      |     |      |       |     |
|-------------------------|--|------|------|------|------|------|------|-----|------|-------|-----|
|                         | 1  | 2    | 3    | 4    | 5    | 8    | 12   | 20  | 24   | 48    | 100 |
| <b>EnergyCell 34RE</b>  | 19.7   | 23.6 | 26.1 | 28   | 29   | 30.4 | 31.7 | 33  | 33   | 33.6  | 34  |
| <b>EnergyCell 52RE</b>  | 29.6   | 35.1 | 38.9 | 41.4 | 43.3 | 46   | 48   | 50  | 50.4 | 51.3  | 52  |
| <b>EnergyCell 78RE</b>  | 43.5   | 53.2 | 58.5 | 62   | 64.5 | 69.6 | 72   | 75  | 75.6 | 77    | 78  |
| <b>EnergyCell 95RE</b>  | 47   | 58   | 66   | 70.8 | 74   | 79.2 | 83.6 | 88  | 88.8 | 91    | 95  |
| <b>EnergyCell 106RE</b> | 49.2   | 61.5 | 70   | 76   | 80.6 | 89   | 94.2 | 100 | 101  | 102.6 | 106 |

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