



# EnergyCell RE Top Terminal Battery

VRLA Battery for Renewable Energy Storage

- Designed for Renewable Energy Applications
- Robust Lead-Alloy Plates for Extended Cycle Life
- Computer Generated Grid Design Optimized for High Power Density
- Low-Calcium Grid Alloy for Reduced Gas Emissions and Ease of Recycling
- Frame-Arresting, One-Way Pressure-Relief Vent for Safety and Long Life
- UL-Recognized Component



The EnergyCell RE Top Terminal valve regulated lead acid battery is designed for high power density and renewable energy cycling applications. Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom of electrolyte maintenance. The EnergyCell RE also features low profile terminals with threaded copper alloy inserts providing increased safety and reduced maintenance.

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**POWER**<sup>™</sup>  
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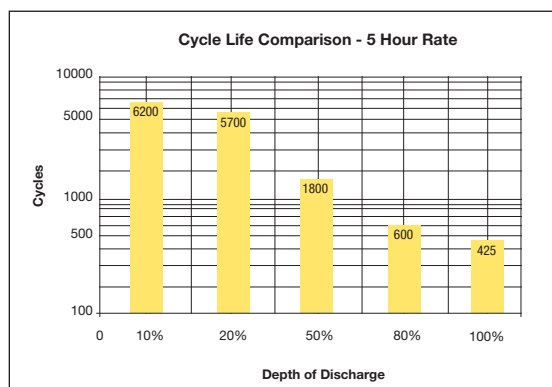
[www.outbackpower.com](http://www.outbackpower.com)

# EnergyCell RE Top Terminal Battery Specifications

	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>	12.84 VDC	12.84 VDC	12.84 VDC	12.84 VDC	12.84 VDC
<b>Electrolyte</b>	Absorbed H <sub>2</sub> SO <sub>4</sub> , SG=1.300				
<b>Operating Temperature Range (with temperature compensation)</b>	Discharge: -40 to 71°C (-40 to 160°F) Charge: -23 to 60°C (-10 to 140°F)				
<b>Normal Operating Temp Range</b>	20 to 27°C (68 to 80°F)				
<b>Recommended Maximum Charging Current Limit Per String</b>	C/5 Amps @ 20hr rate				
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC / unit average at 25°C (77°F)				
<b>Equalization and Cycle Service Charging Limits</b>	14.4 to 14.8 VDC / unit average at 25°C (77°F)				
<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>	30 in-lbs (3.4 Nm)		110 in-lbs (12.4 Nm)		
<b>Weight</b>	27 lbs (12 kg)	40 lbs (18 kg)	54 lbs (25 kg)	64 lbs (30 kg)	69 lbs (31 kg)
<b>Dimensions (H x D x W)</b>	6.80 x 7.76 x 5.19" (172.7x197.1x131.9cm)	8.07 x 9 x 5.48" (205.1x228.6x139.2cm)	8.01 x 10.76 x 6.83" (203.5x273.2x173.4cm)	8.06 x 12.51 x 6.83" (204.8x317.8x173.4cm)	8.52 x 13.42 x 6.80" (216.4x340.9x172.7cm)

## 12 Volts - Ampere Hour Capacity to 1.75 Volts Per Cell at 77°F (25°C)

Discharge in Hours	1	2	3	4	5	6	7	8	10	12	20	24	72	100
<b>EnergyCell 34RE</b>	19.7	23.6	26.1	28	29	29.6	30.1	30.4	31.1	31.7	33	33.1	33.8	34
<b>EnergyCell 52RE</b>	29.6	35.1	38.9	41.4	43.3	44.6	45.4	46	47.2	48	50	50.4	51.8	52
<b>EnergyCell 78RE</b>	43.5	53.2	58.5	62	64.5	66.6	68.6	69.6	71	72	75	75.6	77.6	78
<b>EnergyCell 95RE</b>	47	58	66	70.8	74	76.2	78	79.2	81.7	83.6	88	88.8	93	95
<b>EnergyCell 106RE</b>	49.2	61.5	70	76	80.6	84	86.8	89	92	94.2	100	101	104	106



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