

Power

AlphaCell RE Front Terminal

VRLA Battery for Renewable Energy Storage



- Front terminal access design for ease of maintenance and installation
- High-density pasted plates for high cycle life
- Low calcium Lead/Tin alloy plates for efficient gas recombination for long life in both cycling and float applications
- Reduced headspace for higher energy density, in cabinet or rack applications
- Thermally welded case-to-cover bond to eliminate leakage
- UL-recognized component

The AlphaCell RE 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 from electrolyte maintenance. The AlphaCell RE also features low profile terminals with threaded copper alloy inserts providing reduced maintenance and increased safety.



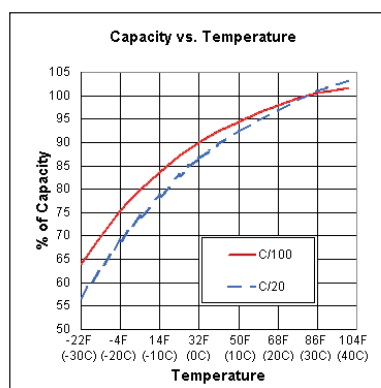
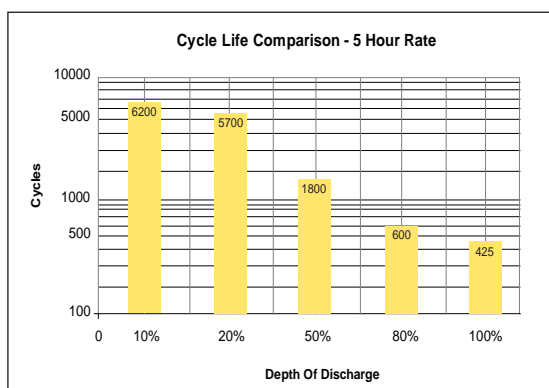
AlphaCell RE Front Terminal

Specifications

Cells Per Unit:	6
Voltage Per Unit:	12
Weight (lbs/kg):	AlphaCell 170 RE: 115/52 AlphaCell 200 RE: 131/60
Operating Temperature Range (with temperature compensation):	Discharge: -40°F (-40°C) to +160°F (71°C) Charge: -10°F (-23°C) to +140°F (60°C)
Optimal Operating Temperature Range:	+74°F (23°C) to +80°F (27°C)
Recommended Maximum Charging Current Limit:	30 amperes @ 80% DOD
Float Charging Voltage:	13.62 to 13.8 Vdc/unit Average at 77°F (25°C)
Equalization and Cycle Service Charging and Current Limits:	14.4 to 14.8 Vdc/unit Average at 77°F (25°C)
Maximum AC Ripple (Charger):	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results Maximum voltage allowed = 4% P-P Maximum current allowed = C/20 RMS (20 Amps)
Self Discharge:	Battery can be stored up to 6 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures.
Temperature Compensation Factor (Charging):	+3 mv/F per cell when operating below 77°F (25°C) -3 mv/F per cell when operating above 77°F (25°C)
Terminal:	Threaded copper alloy insert terminal to accept ¼-20 UNC bolt
Terminal Hardware Initial Torque:	110 in.- lbs (12.4 N-m)
Dimensions H x D x W (in/mm):	AlphaCell 170 RE: 11.14 x 22.01 x 4.95/ 282.96 x 559.05 x 125.73 AlphaCell 200 RE: 12.60 x 22.01 x 4.95/ 320.04 x 559.05 x 125.73

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

Discharge in Hours	1	3	4	5	8	12	20	24	48	100
AlphaCell 170 RE	89.1	114.2	120.6	125.9	137	145.3	153.8	157	163.9	169.8
AlphaCell 200 RE	103	132	139.6	145.5	158.4	168	178	181.4	189.6	200



For contact information visit www.alpha.com

The Alpha Group >

North America	Europe, Middle East & Africa	Asia Pacific	Latin & South America
USA Tel: +1 360 647 2360 Fax: +1 360 671 4936 Canada Tel: +1 604 436 5900 Fax: +1 604 436 1233	Cyprus Tel: +357 25 375 675 Fax: +357 52 359 595 Russia Tel: +7 495 925 9844 Fax: +7 495 916 1349	Germany Tel: +49 9122 79889 0 Fax: +49 9122 79889 21 United Kingdom Tel: +44 1279 501110 Fax: +44 1279 659870 Lithuania Tel: +370 5 210 5291 Fax: +370 5 210 5292	P.R. China Tel: +852 2736 8663 Fax: +852 2199 7988 Contact USA office