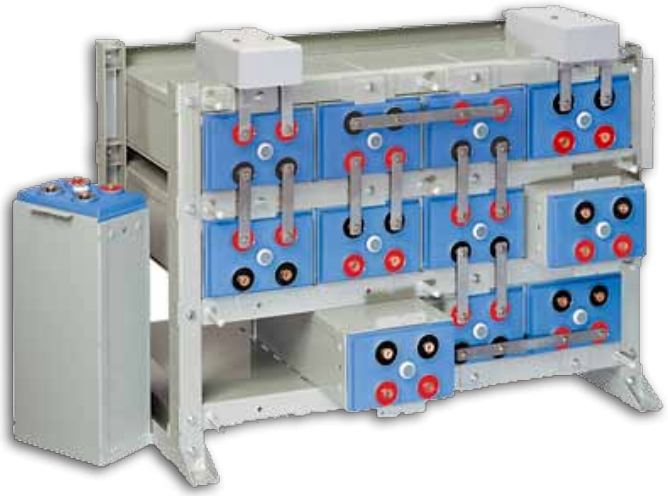
EnergyCell RE High Capacity Battery

2V VRLA AGM Batter



Shown: 24V racking solution with 12 batteries, 48V also available.

100% Out-of-Bo Initial Batter Capacit

Valve Regulated Lead Acid (VRLA) Absorbed Glass Mat (AGM) Technolog : Lo Maintenance ith No Watering Required

Batter Frame Design Allo s for Ma imum Heat Dissipation

Steel Module Design, Cells Factor Installed in Permanent Steel Modules ith 1 or 2 Cells Per Can

4 6 Standard 48V S stem Con guration ith Multiple Module Con gurations Available for Ma imum Fle ibilit

Simpli ed Installation

Top Termination Standard, Optional Side Termination

Clear Flame Retardant Front Safet Shields Allo for Eas Visual Inspection Without Removal

Flame-Retardant Batter Jars for Increased Safet

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

The Energ Cell RE High Capacit batter 's modular design concept ith steel-can casing and its integral racking s stem provide a cost-e ective batter s stem ith a compact, quick and simple installation process.

The Energ Cell RE High Capacit batter s stem's cell design, ith Absorbed Glass Mat (AGM) technolog , incorporates thicker positive plates for longer batter life. The elded/epo dual-post sealed design provides the highest integrit batter casing in the industr : 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 batter .

The eas -to-assemble racking provides total e ibilit for s stem con guration and allo s fast, simple installation even in the most di cult locations. The Energ Cell RE High Capacit batter , ith its optimi ed recombination chemistr and e tra thick plates, has e cellent performance, e tended service life, and lo maintenance requirements for grid-interactive and o -grid rene able energ and UPS applications.

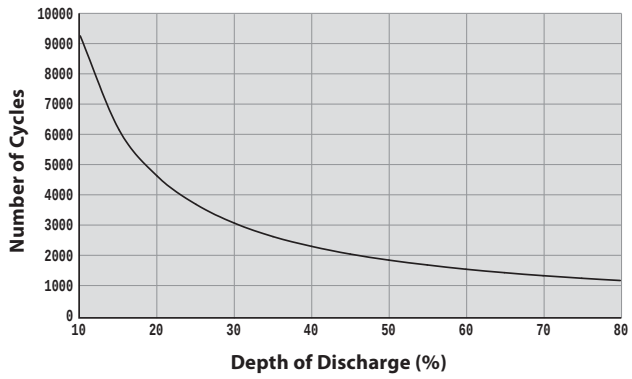
EnergyCell® RE High Capacity Battery Speci cations

06/2014

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
Equalize Voltage Per Cell (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 Ω)	441	309	270	225	167	169	126
Terminal Torque (Intercell Connects)	88 in-lbs	88 in-lbs	88 in-lbs	88 in-lbs	88 in-lbs	88 in-lbs	88 in-lbs
Hardware Speci□cation (Intercell Connects)	M8 bolt, lock and □at 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 Per Cell L x W x H (in/mm)	21.8 x 6.5 x 11.9 / 554 x 165 x 302	21.8 x 6.5 x 8.4 / 554 x 165 x 213	4.5 x 6.5 x 8.4 / 622 x 165 x 213	24.5 x 6.5 x 9.9 / 622 x 165 x 251	23.5 x 8.9 x 9.9 / 597 x 226 x 252	24.5 x 6.5 x 12.9 / 622 x 165 x 328	23.5 x 8.9 x 12.9 / 597 x 226 x 328

*Before installation, OCV is open circuit voltage. **Represents 60Hrs charge time at 16 to 32°C.
Equalize in the following conditions if □oat voltage of any cell is less than 2.17VPC or the □oat 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)

EnergyCell RE High Capacity Cycle Life



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