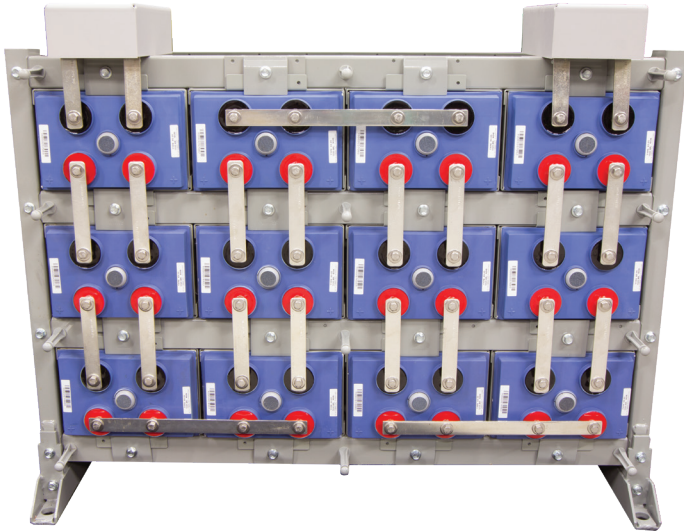


EnergyCell RE High Capacity™

2V VRLA AGM Battery

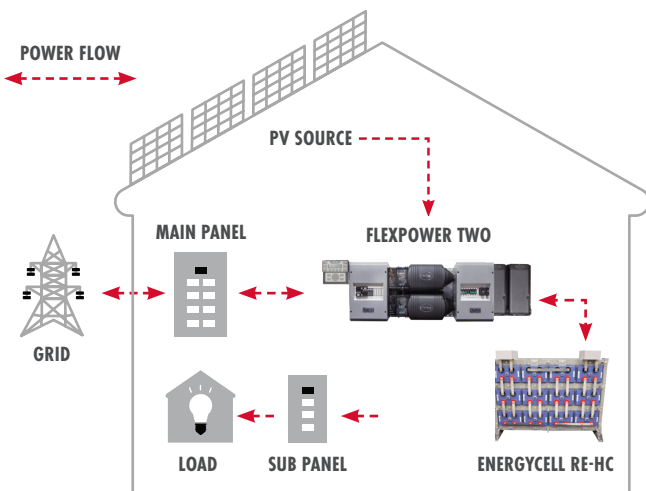


- 1800 cycles @ 50% depth of discharge
- Space-saving 4 × 6 standard 48V system configuration
- Battery frame design allows for maximum heat dissipation
- 100% out of box initial battery capacity
- VRLA-AGM technology: 99% gas recombination efficient, no periodic watering of cells, no re-torquing of terminal connections, and no equalization charge under standard operating conditions

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 post design also enhances high rate performance.

Cells are encased in the module's 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.



EnergyCell Models*:	800RE	1100RE	1300RE	1600RE	2000RE	2200RE	2700RE
Nominal Voltage Per Cell	2V	2V	2V	2V	2V	2V	2V
Nominal Voltage Per System	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC
Cycle Life (50% DOD, 1.75VPC)	1800	1800	1800	1800	1800	1800	1800
Absorb Voltage (25°C)	55.6VDC	55.6VDC	55.6VDC	55.6VDC	55.6VDC	55.6VDC	55.6VDC
Absorb Time	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs
Float Voltage (25°C)	54VDC	54VDC	54VDC	54VDC	54VDC	54VDC	54VDC
Float Time	= absorb time	= absorb time	= absorb time	= absorb time	= absorb time	= absorb time	= absorb time
Equalize Voltage	2.32VDC	2.32VDC	2.32VDC	2.32VDC	2.32VDC	2.32VDC	2.32VDC
Re-Bulk Voltage³	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC	24VDC / 48VDC
Re-Float Voltage³	12.5VDC / 25VDC / 50VDC						
Maximum Charge Current (Per Battery)	148.75A	212.5A	250A	300A	375A	400A	500A
Operating Temperature Range (w/Temperature Compensation)	-4 to 122°F (-20 to 50°C)						
Optimal Operating Temperature Range	68 to 86°F (20 to 30°C)	68 to 86°F (20 to 30°C)	68 to 86°F (20 to 30°C)	68 to 86°F (20 to 30°C)	68 to 86°F (20 to 30°C)	68 to 86°F (20 to 30°C)	68 to 86°F (20 to 30°C)
Temp-Comp Factor (Charging)	—	—	—	—	—	—	—
Self-Discharge Time	6 months @ 25°C	6 months @ 25°C	6 months @ 25°C	6 months @ 25°C	6 months @ 25°C	6 months @ 25°C	6 months @ 25°C
Terminal Type	M8 bolt, lock, flat washer	M8 bolt, lock, flat washer	M8 bolt, lock, flat washer	M8 bolt, lock, flat washer	M8 bolt, lock, flat washer	M8 bolt, lock, flat washer	M8 bolt, lock, flat washer
Terminal Hardware Initial Torque	88in-lbs	88in-lbs	88in-lbs	88in-lbs	88in-lbs	88in-lbs	88in-lbs
Weight (lb/kg)	2262 / 1189.3	3797 / 1722.3	4330 / 1964.1	5082 / 2305.2	6464 / 2932.0	6707 / 3042.2	8266 / 3749.4
48V System Dimensions H × D × W (in/cm)	43.44 × 23.5 × 39.40 / 110 × 59.69 × 10	60.7 × 23.5 × 37.15 / 154.2 × 59.69 × 94.36	77.96 × 26.25 × 33.32 / 198.0 × 66.68 × 84.63	77.96 × 26.25 × 33.32 / 198.0 × 66.68 × 84.63	74.92 × 27.46 × 44.37 / 190.3 × 69.75 × 11.27	77.96 × 26.25 × 56.37 / 198.0 × 66.68 × 14.32	74.92 × 27.46 × 56.37 / 190.3 × 69.75 × 143.2
Warranty**	3 years	3 years	3 years	3 years	3 years	3 years	3 years
48V Standard System Configuration	6w × 4h	4w × 6h	3w × 8h	3w × 8h	4w × 6h	3w × 8h	4w × 6h

Discharge in Hours:	2V Ampere Hour Capacity to 1.75 Volts Per Cell @ 77°F (25°C)					
	1	5	8	20	24	100
EnergyCell 800RE	347	555	600	672	676	810
EnergyCell 1100RE	495	790	864	960	984	1150
EnergyCell 1300RE	575	920	1008	1148	1176	1340
EnergyCell 1600RE	690	1105	1208	1378	1416	1600
EnergyCell 2000RE	886	1390	1512	1716	1776	2070
EnergyCell 2200RE	920	1470	1616	1836	1872	2140
EnergyCell 2700RE	1182	1850	2016	2288	2352	2770

* Consult local and regional electrical code for proper installation of energy storage requirements.

** Consult EnergyCell RE High Capacity warranty documentation for all terms and conditions