EnergyCell GH

VRLA BATTERY FOR GRID/HYBRID ENERGY STORAGE

Three Reasons to Choose the EnergyCell GH from OutBack Power:

1. PURPOSE-BUILT

- Batteries designed for residential or light-commercial grid-tied battery backup renewable energy power demands
- Thin-plate pure lead AGM technology ensures long float life in battery backup applications
- Wide operating temperature range
- 18-month shelf life at 25°C

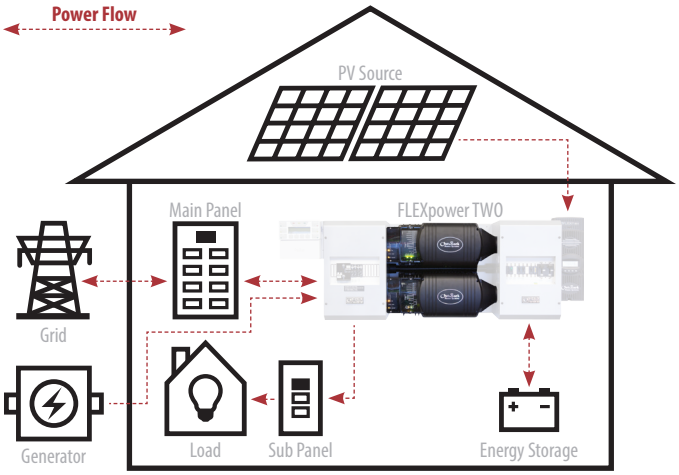
2. EASY-TO-INSTALL AND MAINTAIN

- VRLA-AGM technology means 99% gas recombination efficient, no periodic watering of cells, no retorquing of terminal connections, and no equalization charge under standard operating conditions
- Modular space-saving design when installed with IBR rack
- IBR racking included with intercell connects and front access to cell connections
- 4 year full replacement warranty
- OPTICS RE connectivity means real-time access to critical battery performance data
- Batteries and power electronics can be installed in the same area[1]

3. SINGLE-BRAND SYSTEM SOLUTION

- Optimized to work seamlessly with OutBack power conversion equipment
- Ease of ordering with SystemEdge package configurations—to learn more visit www.outbackpower.com
- Single point of contact for all technical system inquiries
- Quality and reliability from OutBack Power assures customers receive the best technologies for renewable energy systems in the market today

OutBack EnergyCell GH Typical System Integration:



OUTBACK POWER—MASTERS OF THE OFF-GRID. FIRST CHOICE FOR THE NEW GRID.

MAKE THE POWER

- FLEXpower Integrated Systems
- Inverter/Chargers & Charge Controllers

STORE THE ENERGY

- EnergyCell RE, GH, NC and OPzV Batteries
- Battery Enclosures and Racking

MANAGE THE SYSTEM

- OPTICS RE System Monitoring and Control
- MATE3 System Display and Communications

Models:	EnergyCell 200GH	EnergyCell 220GH
Cells Per Unit	6	6
Voltage Per Unit	12VDC	12VDC
Operating Temperature Range (w/ temperature compensation)	-40 to 122°F (-40 to 50°C)	-40 to 122°F (-40 to 50°C)
Optimal Operating Temperature Range	68°F (20°C)	68°F (20°C)
Float Charging Voltage	13.62VDC / unit average at 77°F (25°C)	13.62VDC / unit average at 77°F (25°C)
Maximum Charge Current	106.2A	118.8A
Absorbed Voltage	14.4VDC / unit average at 77°F (25°C)	14.4VDC / unit average at 77°F (25°C)
Self Discharge	Battery can be stored up to 18 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.	
Temp Compensation Factor (Charging)	±4mV per °C per cell (2V)	±4mV per °C per cell (2V)
Terminal	Threaded copper alloy insert terminal to accept ¼"-20 UNC bolt	Threaded copper alloy insert terminal to accept ¼"-20 UNC bolt
Terminal Hardware Initial Torque	M6 = 80in-lbs (9.0Nm)	M6 = 80in-lbs (9.0Nm)
Weight (lb/kg)	116 / 53	132 / 60
Dimensions H x D x W (in/cm)	11.1 x 22.1 x 4.9 / 28.2 x 56.1 x 12.4	12.4 x 22.1 x 4.9 / 31.5 x 56.1 x 12.4

	12V Ampere Hour Capacity to 1.75 Volts Per Cell at 77°F (25°C)								
Discharge in Hours:	1	3	4	5	8	12	20	24	100
EnergyCell 200GH	120	148.5	154.8	159	168.8	176.4	191	189.6	200
EnergyCell 220GH	133.5	166.2	173.2	178	188.8	198	214	216	220

[1]Consult local and regional electrical code for proper installation of energy storage requirements.