

Three Reasons to Choose the EnergyCell NC Series from OutBack Power:

1. PURPOSE-BUILT

- Batteries designed for residential or light-commercial off-grid or self-consumption renewable energy power demands
- High round trip efficiency—up to 95%
- Partial State of Charge Operation insures long life—increases cycle life versus traditional VRLA batteries
- High amperage recharge acceptance allows for fast recharge
- High carbon surface area on negative active material allows for increased conductivity

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 (200NC only)
- IBR racking included with intercell connects and front access to cell connections
- 2 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 area¹

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

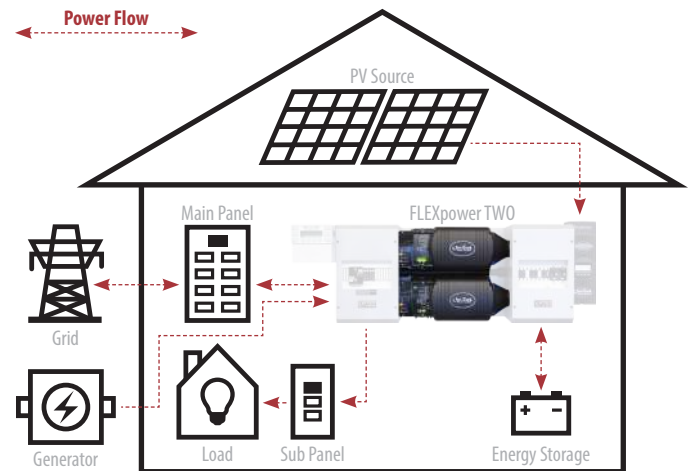


Front Terminal



Top Terminal

OutBack EnergyCell NC Series 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



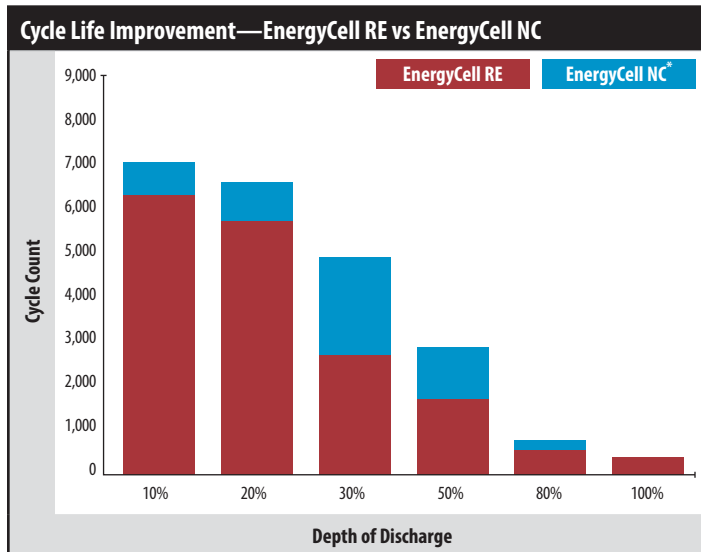
MANAGE THE SYSTEM

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

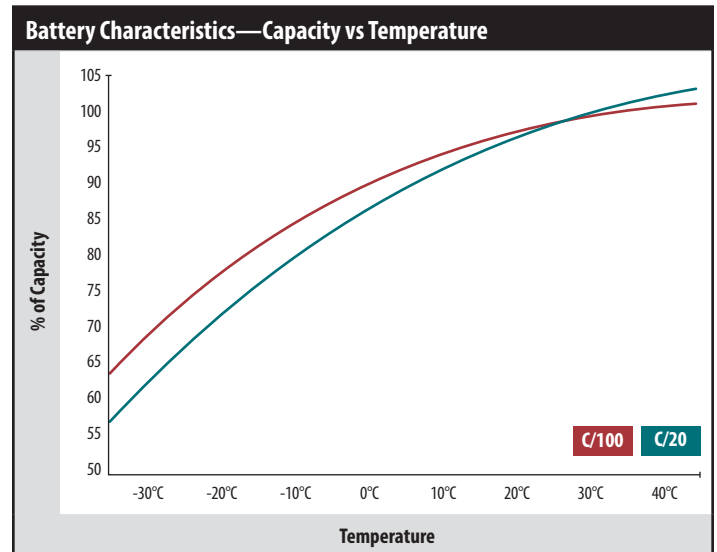
Models:	EnergyCell 106NC (Top Terminal)	EnergyCell 200NC (Front Terminal)
Cells per Unit	6	6
Voltage per Unit	12VDC	12VDC
Operating Temperature Range (w/ Temperature Compensation)	Discharge: -40 to 71°C (-40 to 160°F) Charge: -23 to 60°C (-10 to 140°F)	Discharge: -40 to 71°C (-40 to 160°F) Charge: -23 to 60°C (-10 to 140°F)
Optimal Operating Temperature Range	23 to 27°C (74 to 80°F)	23 to 27°C (74 to 80°F)
Recommended Maximum Charging Current Limit per String	30ADC	53ADC
Float Charging Voltage	13.62VDC unit average at 25°C (77°F)	13.62VDC / unit average at 25°C (77°F)
Equalization and Cycle Service Charging Limits	14.4VDC unit average at 25°C (77°F)	14.4VDC / unit average at 25°C (77°F)
Self Discharge	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.	
Temperature Compensation Factor (Charging)	5mV per °C per cell (2V)	5mV 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	110in-lbs (12.4Nm)	110in-lbs (12.4Nm)
Weight (lb/kg)	69 / 31	131 / 60
Dimensions H x D x W (in/cm)*	8.52 x 13.42 x 6.80 / 216.4 x 340.9 x 172.7	12.60 x 22.01 x 4.95 / 32.0 x 55.09 x 12.6

* Batteries to be installed with 0.5 in (12.7 mm) spacing minimum and free air ventilation.

Discharge in Hours:	12V Ampere Hour Capacity to 1.75 Volts Per Cell at 77°F (25°C)										
	1	2	3	4	5	8	12	20	24	48	100
EnergyCell 106NC	49.2	61.5	70	76	80.6	89	94.2	100	101	102.6	106
EnergyCell 200NC	103	120	132	139.6	145.5	158.4	168	178	181.4	189.6	200



* Assumes partial state of charge (PSoC) operation at 50-80%.



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