

Three Reasons to Choose the EnergyCell NC High Capacity 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 (PSoC) 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
- Pre-assembled steel racking included with intercell connects and front access to cell connections
- 3 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

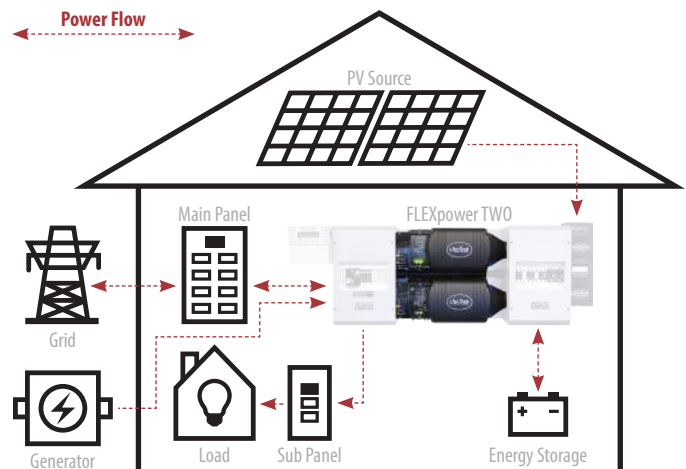
3. SINGLE-BRAND SYSTEM SOLUTION

- 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



EnergyCell 1100NC

OutBack EnergyCell NC High Capacity 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



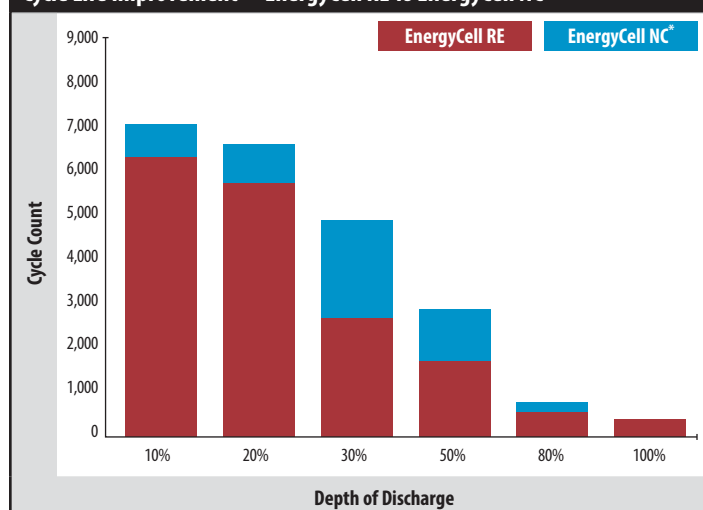
MANAGE THE SYSTEM

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

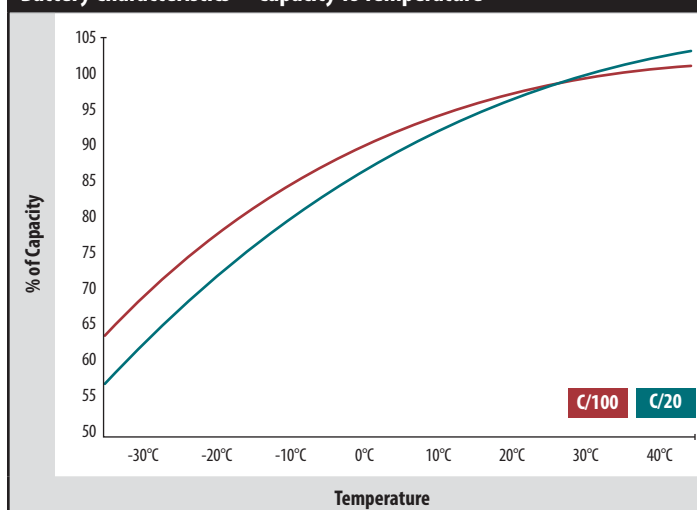
Models:	EnergyCell 1100NC	EnergyCell 1600NC	EnergyCell 2000NC	EnergyCell 2200NC
Technology	VRLA-AGM Carbon	VRLA-AGM Carbon	VRLA-AGM Carbon	VRLA-AGM Carbon
Cell Voltage	2V	2V	2V	2V
48V Cell Configuration	4x6	4x6	4x6	4x6
Cycle Life (50% DOD 1.75VPC)	2000	2000	2000	2000
Ah Capacity	C/24 1.75VPC: 926 C/100 1.75VPC: 1060	C/24 1.75VPC: 1392 C/100 1.75VPC: 1600	C/24 1.75VPC: 1740 C/100 1.75VPC: 1990	C/24 1.75VPC: 1855 C/100 1.75VPC: 2130
Short Circuit Current (A)	4240	6359	7949	8479
Maximum Charge Current (A)	397	595	744	794
Internal Resistance (mOhm)	0.4718	0.3145	0.2516	0.2359
Storage per Cell (kWh)	C/24: 1.85 C/100: 2.12	C/24: 2.78 C/100: 3.20	C/24: 3.48 C/100: 3.98	C/24: 3.71 C/100: 4.26
Dimensions L x W x H (in/mm)	26.38 x 28.25 x 45.78 / 670 x 718 x 1163	26.38 x 28.25 x 63.78 / 670 x 718 x 1620	26.38 x 28.25 x 77.28 / 670 x 718 x 1963	26.38 x 28.25 x 81.78 / 670 x 718 x 2077
Weight (lb/kg)	3220 / 1461	4420 / 2205	5365 / 2434	5740 / 2604
Operating Temperature Range (°F/°C)	-40 to 140 / -40 to 60	-40 to 140 / -40 to 60	-40 to 140 / -40 to 60	-40 to 140 / -40 to 60
Shelf Life (@ 25 °C)	12 months	12 months	12 months	12 months
Warranty	3 years	3 years	3 years	3 years

48V Ampere Hour Capacity to 1.75 Volts Per Cell at 77°F (25°C)

Discharge in Hours:	1	2	3	4	8	10	12	20	24	48	100
EnergyCell 1100NC	391.1	543.0	621.0	674.0	794.4	829.0	854.4	918.0	926.4	998.4	1060.0
EnergyCell 1600NC	586.7	814.6	931.8	1011.6	1191.2	1243.0	1282.8	1376.0	1392.0	1497.6	1600.0
EnergyCell 2000NC	733.4	1018.2	1164.6	1264.4	1489.6	1554.0	1603.2	1720.0	1740.0	1872.0	1990.0
EnergyCell 2200NC	782.3	1086.2	1242.3	1348.8	1588.8	1658.0	1710.0	1834.0	1855.2	1996.8	2130.0

Cycle Life Improvement—EnergyCell RE vs EnergyCell NC


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

Battery Characteristics—Capacity vs Temperature


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