

EnergyCell PLC Series ADVANCED PURE LEAD CARBON BATTERY

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

1. PURPOSE-BUILT

- Batteries designed for residential or light-commercial off-grid, backup or self-consumption renewable energy power demands
- 3.000 cycles at 50% DOD
- Pure lead extends the life of the battery versus traditional VRLA and allows for increased float capability for backup applications
- · Advanced carbon technology reduces the effect of sulfation and is compatible with Partial State of Charge (PSoC) operation

2. EASY-TO-INSTALL AND MAINTAIN

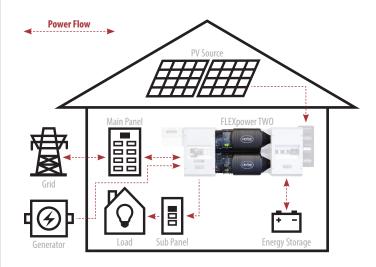
- PLC technology means 99% gas recombination efficient, no periodic watering of cells, no re-torquing of terminal connections, and no equalization charge under standard operating conditions
- Modular space-saving design when installed with OutBack's Integrated Battery Rack (IBR)
- 18 month shelf life at 25°C
- OPTICS RE connectivity means real-time access to critical battery performance data
- Batteries and power electronics can be installed in the same area*
- At end of life, lead acid batteries are 96% recyclable
- Full replacement warranty—6 year domestic, 4-5 year global

3. SINGLE-BRAND SYSTEM SOLUTION

- Optimized to work seamlessly with OutBack power conversion
- 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 PLC 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, PLR, PLC and OPzV Batteries
- Battery Enclosures and Racking



MANAGE THE SYSTEM

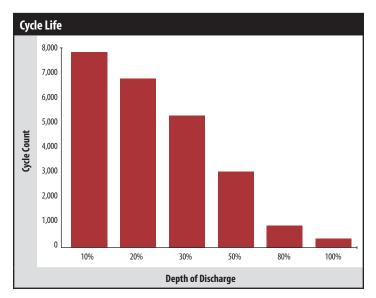
- OPTICS RE System Monitoring and Control
- MATE3s System Display and Communications

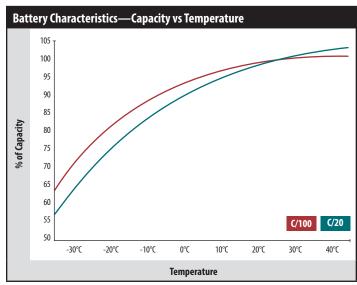
EnergyCell Models:	200PLC								
Cells Per Unit	6								
Nominal Voltage	12VDC								
Cycle Life (50% DOD, 1.75VPC)	3000								
Absorb Voltage (25°C)¹	14.1VDC								
Absorb Time ²	5hrs								
Float Voltage (25°C)¹	13.5VDC								
Float Time	6hrs (0.15C)								
Equalize Voltage and Charge Frequency	14.1								
Re-Bulk Voltage³	12.9VDC								
Re-Float Voltage ³	13.2VDC								
Maximum Charge Current (Per Battery)	50ADC								
Operating Temperature Range (w/Temperature Compensation)	Discharge : -40 to 149°F (-40 to 65°C) Charge : 5 to 140°F (-15 to 60°C) Storage : -4 to 104°F (-20 to 40°C)								
Optimal Operating Temperature Range	68 to 86°F (20 to 30°C)								
Temp-Comp Factor (Charging)	-4mV per °C per cell (2V)								
Self-Discharge Time	Batteries can be stored up to 18 months at 25°C (77°F) before a freshening charge is required. For higher temperatures the time interval will be shorter								
Terminal Type	T11								
Terminal Hardware Initial Torque	11 to 14.7Nm)								
Weight (lb/kg)	130/59								
Dimensions H x D x W (in/cm) ⁴	12.6 x 22 x 4.92 / 32 x 55.88 x 12.50								
Warranty ^s	Domestic: 6 year full replacement Global: 4-5 year full replacement								
Accessories	Ships with interconnect bars, terminal covers and hardware kit								

Note: PC-ABS flame retardant jar and cover to UL94V-0 ¹ If using both inverter and charge controller, set the charge controller to 0.4V higher (0.2V for 24V systems) to give the charge controller charging priority. ² Will always be 2 hours if charge rate is 10% of battery bank amp-hours. For higher or lower charge rates, use the formula AR ÷ (CR x 0.5) = absorb time where AR = amp-hours remaining after absorb voltage is first reached (10% of battery bank Ah) and Cr = amp-hours of current charge.

³ Default values for 12/24/48V systems. May need to be adjusted for site application. ⁴Batteries to be installed with 0.5in (12.7mm) spacing minimum and free air ventilation. ⁵See OutBack EnergyCell warranty document for full details.

	12V Ampere Hour Capacity to 1.75 Volts Per Cell at 77°F (25°C)												
Discharge in Hours:	1	2	3	4	5	8	12	20	24	48	100		
EnergyCell 200PLC	104	120	132	140	145	160	168	178	182	191	200		





 $^{^{*}}$ Consult local and regional electrical code for proper installation of energy storage requirements.