

### Three Reasons to Choose the EnergyCell PLR Series from OutBack Power:

#### 1. PURPOSE-BUILT

- Batteries designed for residential, light-commercial grid-tied backup or off-grid renewable energy power demands
- 1,500 cycles at 50% DOD
- Pure lead extends the life of the battery versus traditional VRLA and allows for increased float capability and maximizes runtime for backup applications

#### 2. EASY-TO-INSTALL AND MAINTAIN

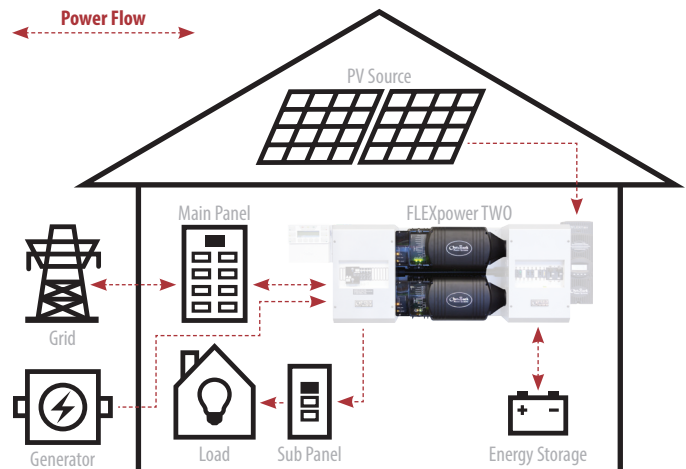
- PLR technology means 99% gas recombination efficient, no periodic watering of cells, no re-torquing of terminal connections, and no equalization charge under standard operating conditions
- Modular space-saving design when installed with OutBack's Integrated Battery Rack (IBR) 18 month shelf life at 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
- 3 year full replacement warranty

#### 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](http://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 PLR 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

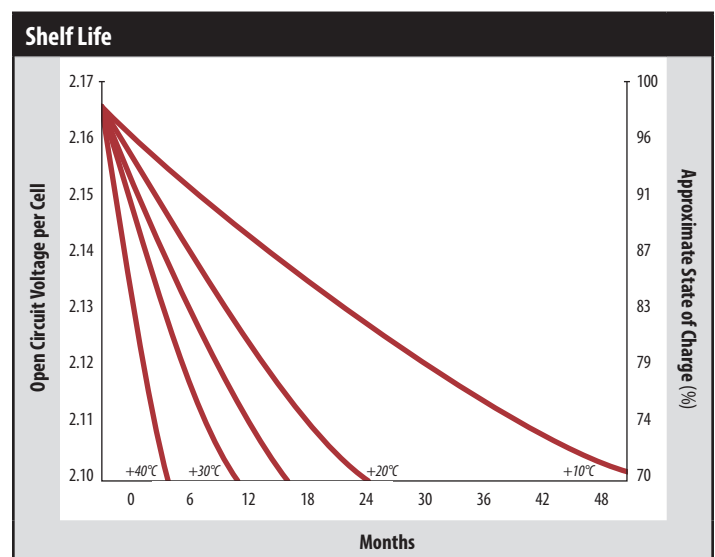
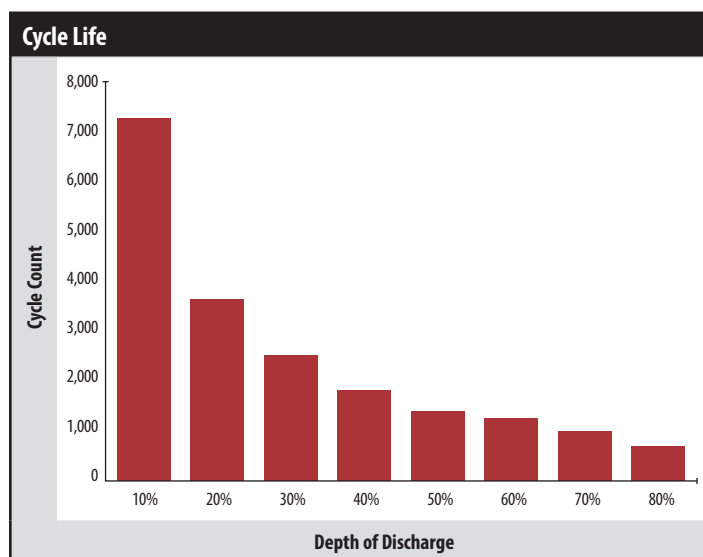
- OPTICS RE System Monitoring and Control
- MATE3s System Display and Communications

EnergyCell Models:	200PLR
Cells Per Unit	6
Nominal Voltage	12VDC
Cycle Life (50% DOD, 1.75VPC)	1500
Absorb Voltage (25°C) <sup>1</sup>	14.7VDC
Absorb Time <sup>2</sup>	2hrs
Float Voltage (25°C) <sup>1</sup>	13.5 to 13.8VDC
Float Time	Continuous
Equalize Voltage and Charge Frequency	14.4 (see manual for further details)
Re-Bulk Voltage <sup>3</sup>	14.1
Re-Float Voltage <sup>3</sup>	13.5
Max. Charge Current (Per Battery)	200ADC (1/C)
Max. Operating Temperature Range (w/Temperature Compensation)	-40°F (-40°C) to 113°F (45°C)
Optimal Operating Temperature Range	68°F (20°C) to 77°F (25°C)
Temp-Comp Factor (Charging)	±4mV per battery 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	M6 no maintenance terminals
Terminal Hardware Initial Torque	44±4 in-lbs (5±0.5 Nm)
Weight (lb/kg)	132.3 / 59.9
Dimensions H x D x W (in/cm) <sup>4</sup>	12.46 x 22.87 x 4.92 / 31.65 x 58.09 x 12.5
Warranty <sup>5</sup>	3 year full replacement
Accessories	Ships with interconnect bars, terminal covers and hardware kit

**Note:** PC-ABS flame retardant jar and cover to UL94V-0 <sup>1</sup> 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. <sup>2</sup> Will always be 2 hours if charge rate is 10% of battery bank amp-hours. For higher or lower charge rates, use the formula  $AR \div (CR \times 0.5) = \text{absorb time}$  where AR = amp-hours remaining after absorb voltage is first reached (10% of battery bank Ah) and CR = amp-hours of current charge.

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

Discharge in Hours:	12V Ampere Hour Capacity to 1.75 Volts Per Cell at 77°F (25°C)									
	.25 (15min)	.5 (30min)	1	2	3	4	5	8	12	20
EnergyCell 200PLR	86.5	119	144	163.4	172	177	181	191.5	194.7	203.8



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