

The XetaPak15 represents a whole new approach for batteries that are used for remote, solar powered telemetry sites. The XetaPak15 is the same size as, and is a drop-in replacement, for a conventional 12AH lead acid battery. However, instead of being just a battery, the XetaPak15 adds a MPPT (maximum power point tracking) solar panel controller, load current limiter, low voltage shutdown, battery temperature management and logging all in one insulated package. The XetaPAK15 is so reliable, invulnerable to abuse, and has such a long life, you will never need to replace it at your remote site. By contrast, today's typical lead acid battery needs to be replaced once a year requiring field resources and the cost of repeated purchases.



XetaPAK15

Key Differentiators

- 3 year unconditional warranty.
- Uses safe, nonflammable LiFePO4 battery technology.
- A true 100% tested 15AH rating. Discharging the battery to its rated capacity will not damage nor limit the life of the battery as is the case with conventional lead acid batteries.
- Rated for 3,000 80% charge/discharge cycles while still maintaining 80% capacity. No lead acid battery comes close!
- Rated for 12AH capacity at -20°C (-4F).
- Insulated enclosure and an internal battery heater uses surplus solar power to keep the battery warm at low temperature extremes.
- Integral maximum power point tracking (MPPT) solar controller extracts an additional 20% power from your solar panel at cold temperatures.
- Internal low voltage disconnect prevents over discharge.
- Internal resettable current limiter is set at 2A. This prevents and provides a safeguard from sparks and wire frying if the output is shorted.
- RS232 or optional RS485 Modbus logging allows comprehensive monitoring of battery, solar panel, and load data.
- Charge/discharge efficiency is over 90%. Compared to a lead acid battery, the XetaPAK15 provides 10% more useful solar power.
- The voltage to load ratio precisely varies between 13.6 to 12V according to battery state of charge. Just reading your supply voltage tells you precisely how much charge is left in the battery. No guessing.
- Patent pending technology.

XetaPAK15 *Performance Specifications*

General	
Battery Capacity @ 250 mA	15AH @ 25°C, 12AH @ -20°C
Self Discharge Rate	0.5AH per month
Load Voltage	13.6V @ 100% 12.8V @ 50% 12V @ 0%
Maximum Current Draw	2A Current limited with shutdown and 1s reset
Maximum Ambient Temperature	60°C
Minimum Ambient Temperature	-30°C
Solar Controller	
Maximum Open Circuit Panel Voltage	30V
Maximum Panel Short Circuit Current	3A
Minimum Panel Voltage for Charging	10.5V
Controller Efficiency @ 600mA	97%
RS232 Port	
Baud Rate	19,200, 8 data bits no parity
Logging Update Rate	1s
Physical	
Dimensions (L x W x H)	6.6" x 3.95" x 4.6"
Weight	5 lbs