



The XetaPAK represents a whole new approach for batteries that are used for remote, solar powered telemetry sites. The XetaPAK is the same size as, and is a drop-in replacement, for conventional lead acid batteries. However, instead of being just a battery, the XetaPAK 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 XetaPAK 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 much more frequently thereby requiring significant costs to deploy field resources and for repeated purchases of batteries.



Key Differentiators

- 5 year unconditional warranty.
- Uses safe, nonflammable LiFePO4 battery technology.
- A true 100% tested AH 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 AH capacity at -20°C (-4F).
- Insulated enclosure and an internal battery heater uses surplus solar power to keep the batteries 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 XetaPAK 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.

XetaPAK *Technical Specifications*

	XetaPAK15	XetaPAK30	XetaPAK135
General			
Battery Capacity @ 250 mA	15AH @ 25°C, 12AH @ -20°C	30AH @ 25°C, 24AH @ -20°C	135AH @ 25°C, 108AH @ -20° C
Self Discharge Rate	0.4AH per month	0.8 AH per month	3 AH per month
Load Voltage	12.8V @ 100% 12.4V @ 50% 12V @ 0%		
Maximum Current Draw	2A Current limited with shutdown and 1s reset	3A Current limited with shutdown and 1s reset	10A Current limited with shut-down 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	3A	7A
Minimum Panel Voltage for Charging	10.5V		
Controller Efficiency @ 600mA	97%		
RS232 Port			
Baud Rate	115.2k Baud, 8 data bits no parity		
Logging Update Rate	1s		
Physical			
Dimensions (L x W x H)	6.49" x 3.88" x 4.94"	6.49" x 7.31" x 4.94"	12.6" x 7.55" x 9.5"
Weight	5.2 lbs	10 lbs	41 lbs