

# FUTURE PRODUCTS

***MidNite Solar has their engineers working on number or exciting products. This year for SPI we decided to show the projects that are getting close to completion.***

## **MNGTI-750 Wind and MNGTI-750 Solar Inverter**

- 750 Watt grid-tie inverter for wind or solar.
- 30-120 VDC input.
- Max power voltage 90 VDC.
- Built-in clipper controller. Clipper sold separately if needed.
- Electronic brake activates during power outage and storms / high turbulence.
- Includes Bluetooth low-energy module. Free application for Android available.
- Custom colored LCD showing wind speed, output power, and modes.
- Data logs can be downloaded to your smart phone or tablet.
- Transformerless design for maximum efficiency.
- AC couples to a MidNite 1000W battery based grid-tie inverter.
- Transmitter included in the solar version for NEC 690.12 rapid shut-down compliance.
- Solar version includes arc fault detector.
- Die-cast aluminum Nema 3R outdoor enclosure.
- UL/ETL listed.
- Available 2017.
- Price: TBD

## **Chinook 500 Wind Turbine**

- 500 watts @ 11 meters per second/ 24.6 mph
- Grid tie model designed to work with MNGTI-750 Wind Inverter
- Battery charging version s available for 12, 24 and 48VDC
- Charge controller built into turbine
- Voltage limiter (clipper) built into turbine to limit speed and shut down during storms
- Blue tooth built into turbine for 2 way communications to Android application
- Vibration sensor built into turbine to shut down turbine during storms or from icing (icing typically destroys turbines do to imbalance.



**Chinook 500**

## LITTLE SOB

### Transmitter & Receivers

The MidNite Birdhouse is the best fully featured Rapid Shutdown product, but suffers from high cost. Competition now offers contractor based units for half the price. The Little SOB is ½ the cost of the contractor based systems from our competition. Power line carrier communications (No added wiring other than 12-24v for transmitter) transmitter goes inside the wiring compartment of the grid tie inverter. Receivers can be used one per 600VDC string or on each module as required. One transmitter and two receivers and should wholesale for less than \$100. The Little SOB will be UL listed and on the market around the end of this year (2016)

### Surrette gel batteries and box

### MK Ultra batteries and box

Surrette: Twenty four 2V, 535 ah cells with 250 amp disconnect  
Sixteen 12V 17-25kwh Ultra batteries, BMS and four 100 amp string breakers

### Talking Classics

- Speaks in English, Spanish and French
- Warns of impending battery failure due to improper charging
- Hundreds of audible explanations of features
- Can be set to mention SOC and other status at pre-determined intervals

### Wind KID & KID Clipper

- Wind Kid: This is the same rugged KID controller with special wind firmware.
- Numerous wind curves are built into the Wind Kid. The power curve can be adjusted to suit any turbine of the proper size.
- The Solar Load circuit turns into a Clipper control circuit for the Wind Kid, thus a load circuit is not available.
- Kid Clipper: The Clipper is designed to work with AC or DC turbines.
- 12V system can work with turbines up to 500 watts
- 24V systems can work with turbines up to 1000 watts
- 48V systems can work with turbines up to 1500 watts.
- MPPT operation insures you get the most power from your turbine in all wind conditions.
- The Clipper activates when batteries are full in order to keep the turbine from freewheeling
- The combination Wind Kid and Kid Clipper allows three stage battery charging.

[www.midnitesolar.com](http://www.midnitesolar.com)

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Little SOB



Battery Box



Talking Classic



Wind Clipper



Wind KID

