

### MidNite Classic MPPT controller Features (Preliminary)

- Two models accommodate 3, 4 or 5 24V PV modules in series in the coldest climates (44.3VOC typical per panel)  
Operating voltage:
  - Classic175 operating voltage 150V/output 80-90A,
  - Classic280 operating voltage 250V/output 50-55AOpen circuit voltage is based on operating voltage **plus** the battery voltage. The Classic280 model is good for 300VOC on a 48V battery. The Classic175 is good for 175VOC on a 24V battery bank etc.
- MPPT modes for Solar, Wind or Hydro. Choose your application. All models have all modes included.
- Up to three times the power from wind turbines User adjustable power curves, or learning mode.
- Works with the MidNite Clipper for wind and hydro applications to protect turbine & Classic from excessive voltage. The MidNite clipper will load the turbine based on one of five parameters. 1. Max current 2. Max voltage 3. Max RPM's 4. Max wind speed 5. As commanded by the Classic. In addition the Clipper can be programmed to automatically shut the turbine down during high wind conditions or when the batteries are fully charged.
- Ethernet, USB and RS232 two way communications. Settable IP address allows the Classic to be a mini web server when hooked up to broadband either wired or wireless through a common router
- Graphical display creates text, graphs, pictures and site specific wind turbine power curves
- Data storage: 16 or 32 megs of memory (As a reference the MX60 has 34K)
- Parallel operation: No hub required to stack Classics to act as one large controller.
- Two aux outputs: 1 dry contact relay and one 12v output/ input (anemometer or ?)
- Each unit comes with snap on covers and hole plugs to cover all openings when used in dusty or salt air environments (approx 20% reduction in output will result when used in sealed mode)
- Battery voltage supported up to 72V for the Classic175 & **120 volts for the Classic280**
- DC to DC converter mode for boost or buck applications
- Firmware is user upgradeable by downloading files from the MidNite website
- Art Deco aluminum castings
- Voice prompts and warnings (expect a bit of humor here)
- Available Late-2009
- Wizard driven set up covers battery bank size, string voltage and power and wire loss chart



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# CLASSIC

