PeakFlow HybridCore

AC Pump performance and efficiency, whether there's power or not

Contact Info: 866-459-7159
www.peakflowpumps.com

AC Pump performance and efficiency, whether there's power or not.

When the power goes out in your home, your electric sump pump has no way to keep the basement dry. Now, with PeakFlow's HybridCore Battery Backup Sump Pump System, you won't worry about coming home to water damaged property. Upon power loss, the controller automatically switches to inverter mode to continue providing AC power to the electric pump (yours or ours). When utility power returns, the controller will automatically recharge the battery. Audible low battery warnings will make sure you know if a fresh battery is required. If 2 pumps are used (recommended), the PeakFlow Alternator will rotate each cycle between the pumps. If a system capable of self-testing the pumps, batteries, and electronics is preferred, please look into the dual pump PeakFlow HybridPro.

Property characteristics

- Flood Prevention with AC sump pumps
- Automatic transfer to battery power for sump pump operation
- Automatic recharge of battery power upon return of AC power
- Output: 1500w (Max)
- DC Input: 10-15v
- Low Battery Alarm: 10.7v +/-.5v
- Low Battery Shutdown: 10v +/-.5v
- No Load Draw: 600ma
- Read Owner's Manual for important safety precautions. See overload, volt, and amp indicators on face of unit.

First, unpack the system to make sure you have all included parts.

You should have 1 HybridCore control unit, 1 EcoPower sump pump, 1 vertical master adjustable switch, 1 1.5" male adapter, 1 AC power cord, and cable ties.

While the HybridCore is capable of providing enough power for 2 EcoPower pumps, it is NOT recommended.

Install the sump pump into your sump pit. The explanation of sump pump installation is beyond the scope of these instructions. The pump connected to the HybridCore controller can either be installed as a stand-alone primary sump pump or as a secondary sump pump.

Plug AC power cord into HybridCore controller where it says AC Input and then into your household AC receptacle. Be certain the receptacle is grounded. Note that the next step of connecting DC wires may result in a small spark. This is normal and the controller will begin charging the battery.

Connect the DC wires to a 12v battery as shown (small spark may occur). Red is positive, black is negative. Reversing polarity will likely blow an internal fuse and could cause NON warranty damage. Important: Tighten ring terminals with a wrench. No smoking or flames, and do NOT touch anything across the battery posts.

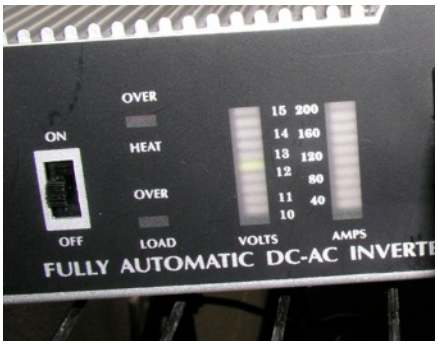
Double check all connections. Bad things happen when wires are improperly connected. If the pump is installed properly and all connections are tight, and discharge is complete, then plug pump and pump switch into one of the receptacles labeled "AC Outputs".

Again, only 1 pump is recommended.

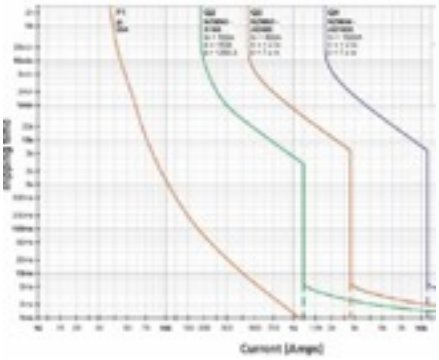
INVERTER ALWAYS ON The HybridCore control unit is always on. The Inverter On/Off switch pictured to the left is not functional. **It has been disabled to be certain that it is mistakenly not turned off and flooding results**. If you require a unit that allows the inverter to be turned Off, please contact us. Note that when power is lost, the unit will drain the battery at a rate of 450 mA.

OPERATION of HybridCore

If your utility power is supplying the HybridCore control unit power properly, the green AC Normal LED will be illuminated. If this LED is not on, the controller does not have power and the inverter will be on. This will drain the battery and NOT recharge it.

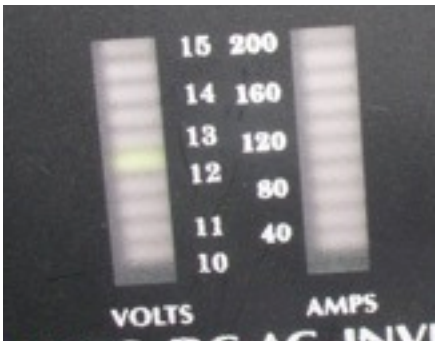


The "OVER HEAT" LED will illuminate when the inverter protects itself against overheating. Inverter shuts down when indicator is on. Inverter will restart automatically and indicator will turn off when the inverter cools.



The "OVER LOAD" LED will illuminate if the inverter must shut down because of overloading. Disconnect inverter from battery and utility power, remove cause of overload (jammed pump?), and reconnect.

The bar graphs display voltage and current info.



Once connected, the voltage bar graph should indicate 11 to 14 volts, and will rise as the battery charges.

Do NOT obstruct the air flow to the ventilation fan. This fan will periodically run when the inverter heats up during use.

If the pump is installed properly and all connections are tight, and discharge is complete, then plug pump and pump switch into one of the receptacles labeled "AC Outputs".

Again, only 1 pump is recommended.

LIMITED WARRANTY The HybridCore unit is designed using the most modern digital technology and under very strict quality control and testing guidelines. If you should experience any problems, please contact us. If warranty service is required, please attain the proper return authorization from customer service and ship it to our service department. We warranty the product for 2 years from purchase date. Please keep your proof of purchase. Except as provided above, PeakFlow Pumps makes no warranty of any kind, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose. In no event shall PeakFlow Pumps or any of its related companies be liable for direct, indirect, special or consequential damages.

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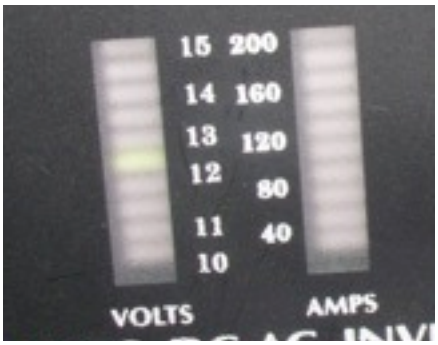
PEAKFLOW PUMPS

We hope you are happy with your new PeakFlow Pumps HybridCore sump pump system. Please read these final notes and information.

Be sure to test your new setup to be sure everything works as expected. A good first test is to unplug the AC power cord, simulating a power outage. This will cause the inverter to turn which you will notice with an audible buzz. If the sump pump still operates you know the inverter is turning the DC power into AC power!

The control unit should not get wet. It should not be stored in a poorly ventilated or enclosed area. Do not replace the supplied wire with smaller wire. The unit must be grounded. If no ground is present, do not operate unit.



If the power is out, the control unit will beep when the voltage has dropped below about 10.7 v (+/-.5v) and will only operate for a few more minutes. The controller will cut off completely at about 10 v (+/-.5v).

The amps bar graph shows how many amps the inverter is drawing from the battery in order to create AC power for the pump. The inverter is able to supply 1500 watts for the pump. The recommended PeakFlow EcoPower 1/3 hp pump will run for many hours with no power. Other pumps should be evaluated for their efficiency.

If you wish to double up on batteries to increase your running time, make sure they are connected in parallel, not in series. This means that all red (+) wires are on the positive battery terminals and all black (-) wires are on the negative battery terminals. Mis-wiring will cause non warranty damage.

QUESTIONS? COMMENTS? We would love to hear from you. Please feel free to call our toll free number. We will do our best to quickly answer your questions. We value your input and thank you for your business!