The Solar Powered Drive-thru

At LCNB in South Lebanon, Ohio

Is It Really Solar Powered?
Yes, the TransTrax® is actually powered by electricity that is generated by the sun.

The way that it really works, however, is that the solar panel on the roof of the bank converts sun light into electrical energy. It then sends it by wires down to a specially designed solar battery that stores the power. When the bank teller pushes the button to send or retrieve the carrier, power that was previously stored in this battery flows to power the unit.

What Happens on Cloudy Days?
Even on cloudy days, the solar panel produces electricity, just not in the volume as on sunny days. Besides the battery has enough stored power to handle approximately 1,000 transactions before it would be required to recharge. That represents several days of activity. Even if there are days where more power is required than is available from the sun, the power system has sufficient reserves to keep the machine running.

What if the System uses all the Power Stored in the Battery? Will The Unit Stop Operating?
No, there is a back up charger that can be powered from a wall plug. The power unit is computer controlled and monitors the state of charge of the battery. Should, for whatever reason, the battery runs down, the computer will turn on this charger and charge the battery and then shut off. This redundancy is built in because the bank cannot afford to have a lane down.

What if the Battery Fails?
The TransTrax® Power system can run the unit using 120 VAC power. Fact is for maintenance reasons, the battery can be disconnected and the TransTrax® power system can run on 120 VAC power while the battery is being replaced. There is no chance that lack of sun light or a battery failure will keep your transaction from being processed at the drive-thru.

Is the TransTrax® unit in the Second Lane Different from the Solar Powered Unit in the Third Lane?
Yes! The TransTrax® in the second lane is plugged into the wall and runs off of AC power. The control board on that unit converts the AC power from the wall to DC which is required to run the motor.

Lane three, the solar powered unit, is designed from the ground up to run off the DC power generated by the solar cell. The power unit which controls how the battery is charged by the solar cell can produce DC power from the wall outlet, but only does so in cases of emergency.

How do you know if the Unit is Running on Sun Power or Electrical Power coming from the Wall Outlet?
There are three meters on the base plate of the TransTrax®. One indicates the number of minutes running on wall power. A second indicates battery voltage and the third meter shows number of runs. The wall power meter increases for each minute the unit is run on wall power.

Solar powered TransTrax® is a product of:
E. F. Bavis and Associates, Inc., 201 Grandin Road, Maineville, Ohio 45039
Phone: 513-677-0500 Web Site: www.bavis.com Fax: 513-677-0552

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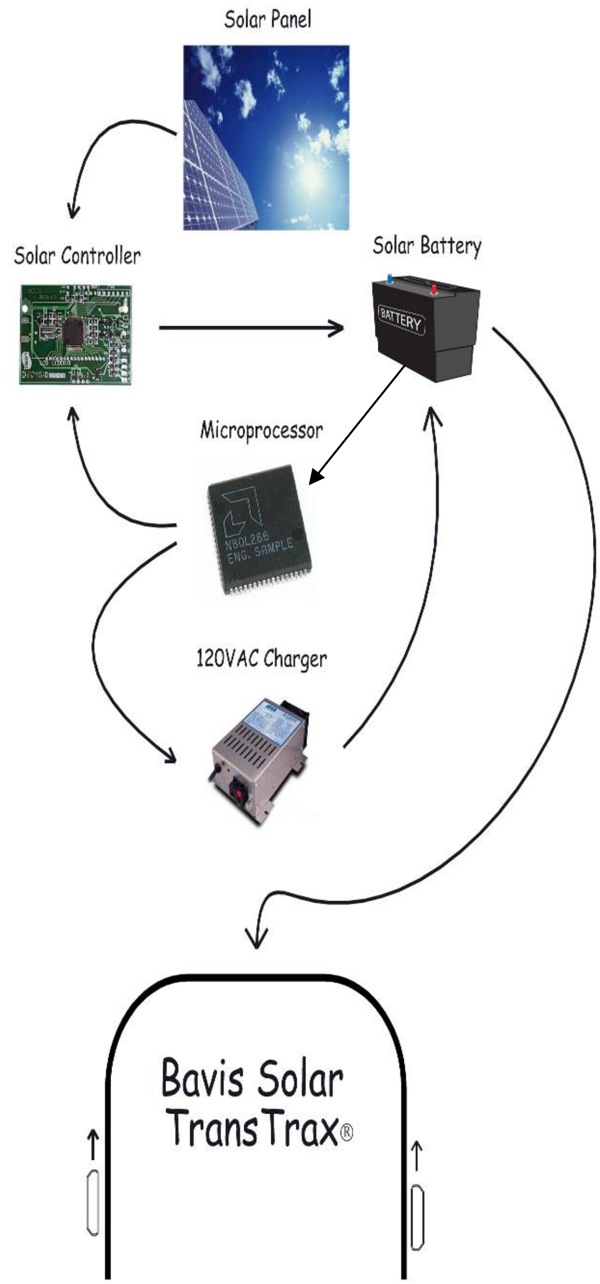
How it Works:



- Sun shining on the solar panel is converted to DC electrical current.

- The current runs into a solar controller that controls how the electricity charges the battery

- The microprocessor monitors the battery. Once it is fully charged it turns off the electrical flow from the solar panel at the solar controller.

- If the microprocessor determines that the battery capacity has fallen below set limits, it kicks on a 120 VAC charger to re-charge the battery so that the unit is never out of service. Once a nominal level of charge is reached, the microprocessor turns off the charger and allows the solar panel to charge the battery.

- DC Power is provided to the TransTrax® unit so that the carrier can be used to process the transaction at the drive-thru.

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