

| <u>Component</u> | <u>Power Generated/Lost (W)</u> | <u>Component Efficiency</u> | <u>Power Out (W)</u> | <u>System Efficiency</u> |
|-----------------------------------|---------------------------------|-----------------------------|----------------------|--------------------------|
| Rectifier/Generator | 4.00E+01 | | | |
| Buck/Boost | 1.28E-01 | 80% | | |
| Battery Charger | 1.02E-01 | 85% | | |
| Transistor Switch Battery Charger | 3.70E-06 | | | |
| Transistor Switch System | 1.22E-01 | | | |
| | | | 39.65 | 99% |
| Battery | 6.28E+01 | | | |
| Battery Monitor | 1.72E-05 | | | |
| Buck Converter | 2.11E+01 | 80% | | |
| Boost Converter | 2.08E-01 | 80% | | |
| LCD | 9.15E-02 | | | |
| LCD Lamp | 1.66E-01 | | | |
| LCD Backlite LED's | 3.28E+01 | | | |
| MSP430 | 1.32E-03 | | | |
| USB Port Internal | 2.50E+00 | | | |
| USB Port External | 2.50E+00 | | | |
| Mini USB Port | 2.50E+00 | | | |
| Fan | 9.99E-01 | | | |
| | | | 0.00 | 0% |