**Afriji Spec**

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| Specifications are in black |
| Details behind specifications are in blue |

1. Electrical Ratings
   1. Outputs
      1. 120VAC at 15A initial 0.5 seconds (1800W)
         1. Compressor startup current
      2. 120VAC at 1A normal operation (120W)
      3. User LED indicators
         1. Individual Red, Green, Blue
      4. Console Interface
         1. Outgoing TX only, 3.3V
         2. Used for data logging and debugging during development
   2. Inputs
      1. Vin between a minimum of 9V to a maximum of 37.8V
         1. 3x car batteries @ 12.6V each
      2. 6x Generic use temperature inputs
         1. 1x for inside of fridge portion
         2. 3x for inside of freezer portion between water shield and freezer interior
         3. 1x for ambient outside air temperature
         4. 1x for ambient enclosure temperature
   3. Longevity
      1. Must last 2000 hours of operation
         1. Not necessarily continuous
         2. We are relying heavily on bulk capacitance which means electrolytic and longer lifespans are hard to come by given the budget
         3. Running for 1 hour a day gives nearly 5.5 years of operation which is an acceptable lifespan