A perfect sine-wave can become system-shocking "dirty power" without notice and can cause extreme damage to data and computers alike. Other equipment nearby can produce "noise on the line" interference that can wreak havoc with create problems in a computing environment. IBM recently reported in a study of power sources that a typical processor encounters around 128 power problems a month [5]. These problems can be caused externally by brownouts or load switches or grid problems at the utility or caused internally by subtle disturbances from sources such as copiers, fluorescent lights, faxes or even vending machines. Spikes, surges, sags, gaps, as well as electrostatic and electromagnetic interference attack your delicate electrical environment on a daily basis. UPSs provide reliable continuous computer-grade AC power regardless of what happens to primary power sources [1;5].

Features Required by the UPS
The following section lists the requirements you described in our discussions about this project, specifically those related to the hardware now in place at Waterloo Brewing Company. You indicated that the cash