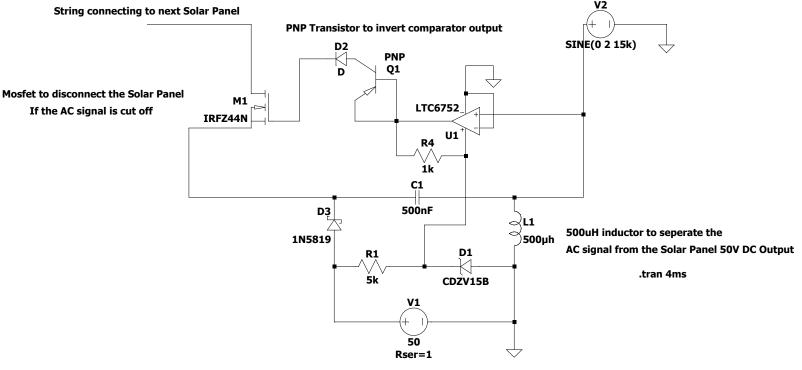
I used IN4007 Diode (D2) to fill the 1sec gap in the signal. Also the diode leakage current helps discharge the mosfet internal capacitor when the ac signal is off

AC Signal from the Solar String
It is not a continuous signal. It turns on and off every second



50V output from the Solar Panel in the string Solar Panels have 50V output with a 15A current