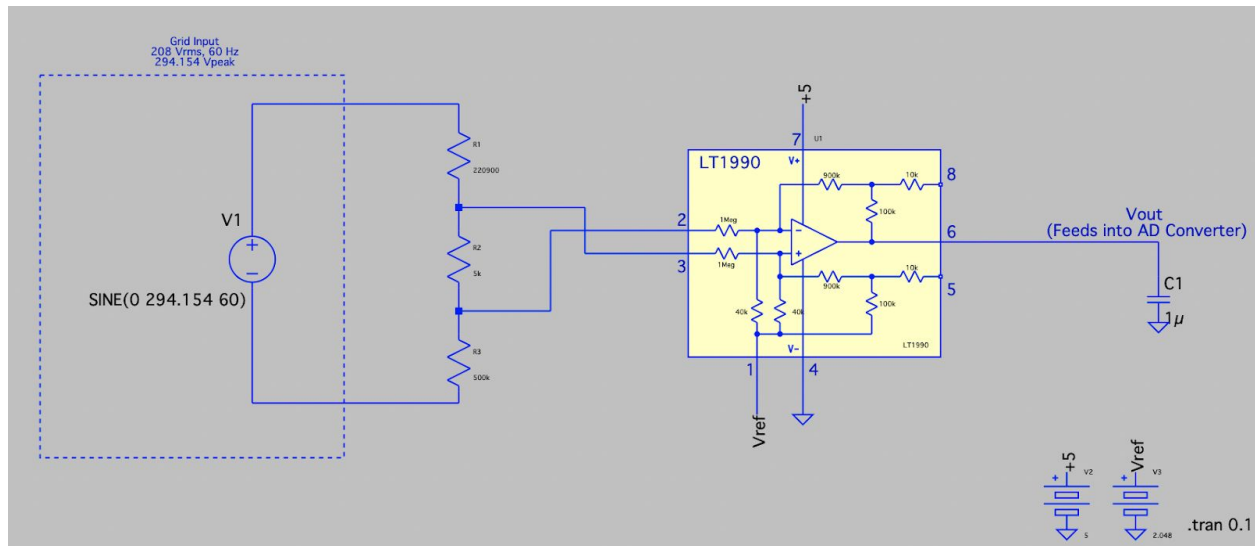


Schematic



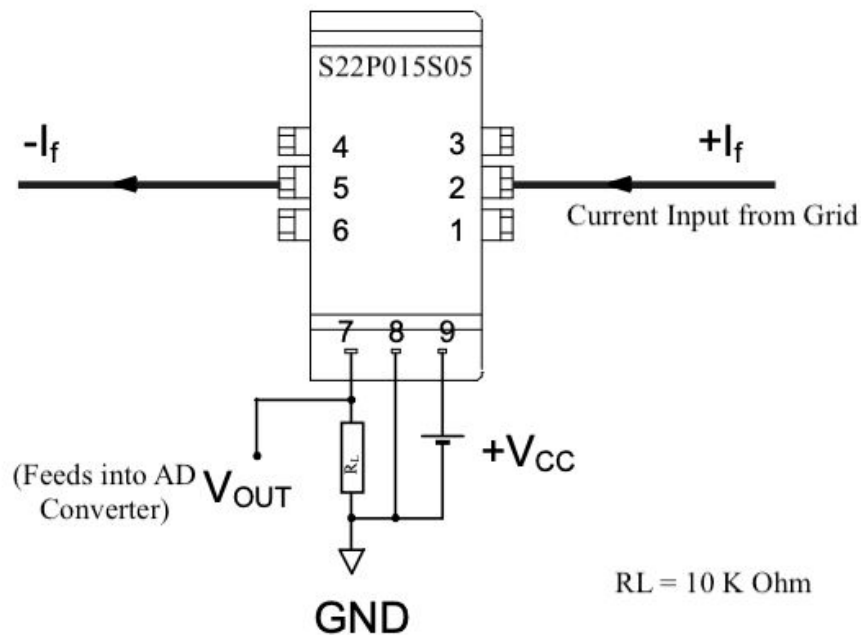
Link to LT1990 on DigiKey: <https://bit.ly/2GjcjCH>

Link to LT1990 DataSheet: <https://bit.ly/2KG9r8o>

***NOTE: All resistors are normal through hole resistors.**

AC Current Read Circuit

Schematic



Link to S22P015S05 on DigiKey: <https://bit.ly/2ZiuReU>

Link to S22P015S05 DataSheet: <https://bit.ly/2GquNCG>

***NOTE:** For this current read circuit I am missing a noise filter circuit that Dr. Lusher told me today to add. It should connect to V_{out} . I will be working on that and will send that part when complete.

Resistors here are also normal through hole resistors.