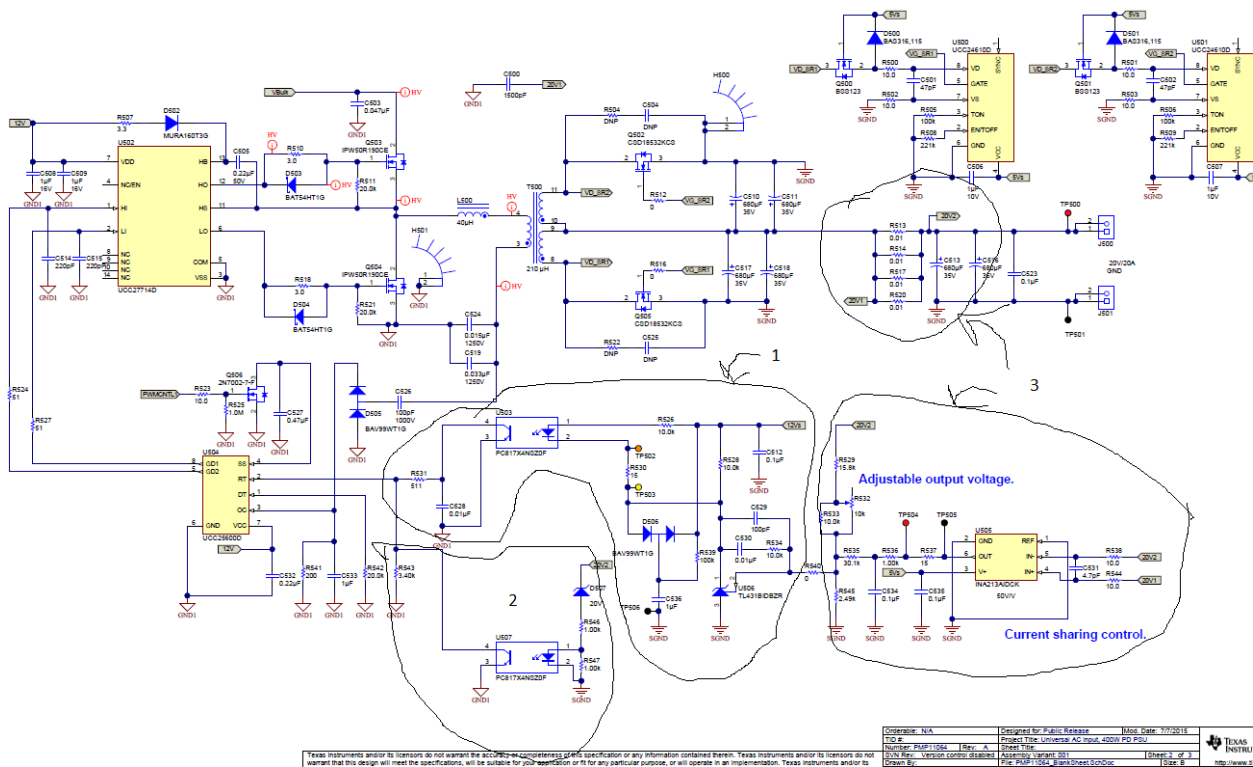


Hello Aneesh,

I reviewed the schematic for this design and here are my thoughts.

The UCC25600 seems to have 3 feedback paths in this design.

1. The 12V output I have circled all the components involved in the feedback path and numbered it 1.
2. The 20V output I have circled all the components involved in the feedback path and numbered it 2.
3. And the loading of the 20V output which is adjusted by the INA213AIDCK U505.
 - a. This device has a gain of 50 and is a shunt monitor.
 - b. I have circled all the components involved in the feedback path and numbered it 3.



These feedback paths will adjust the oscillator frequency to maintain the 12V output, the 20V output and loading of the 20V output.

1. An increase in frequency is a decrease in LLC gain.
 - a. Current decreases coming out of the UCC25600 RT pin.
2. A decrease in frequency is an increase in LLC gain.
 - a. Current increases coming out of the UCC25600 RT pin.

3. The three feedback loops will adjust the oscillator frequency based on RT current.

<http://www.ti.com/lit/ds/symlink/ucc25600.pdf>

Regards,

Mike