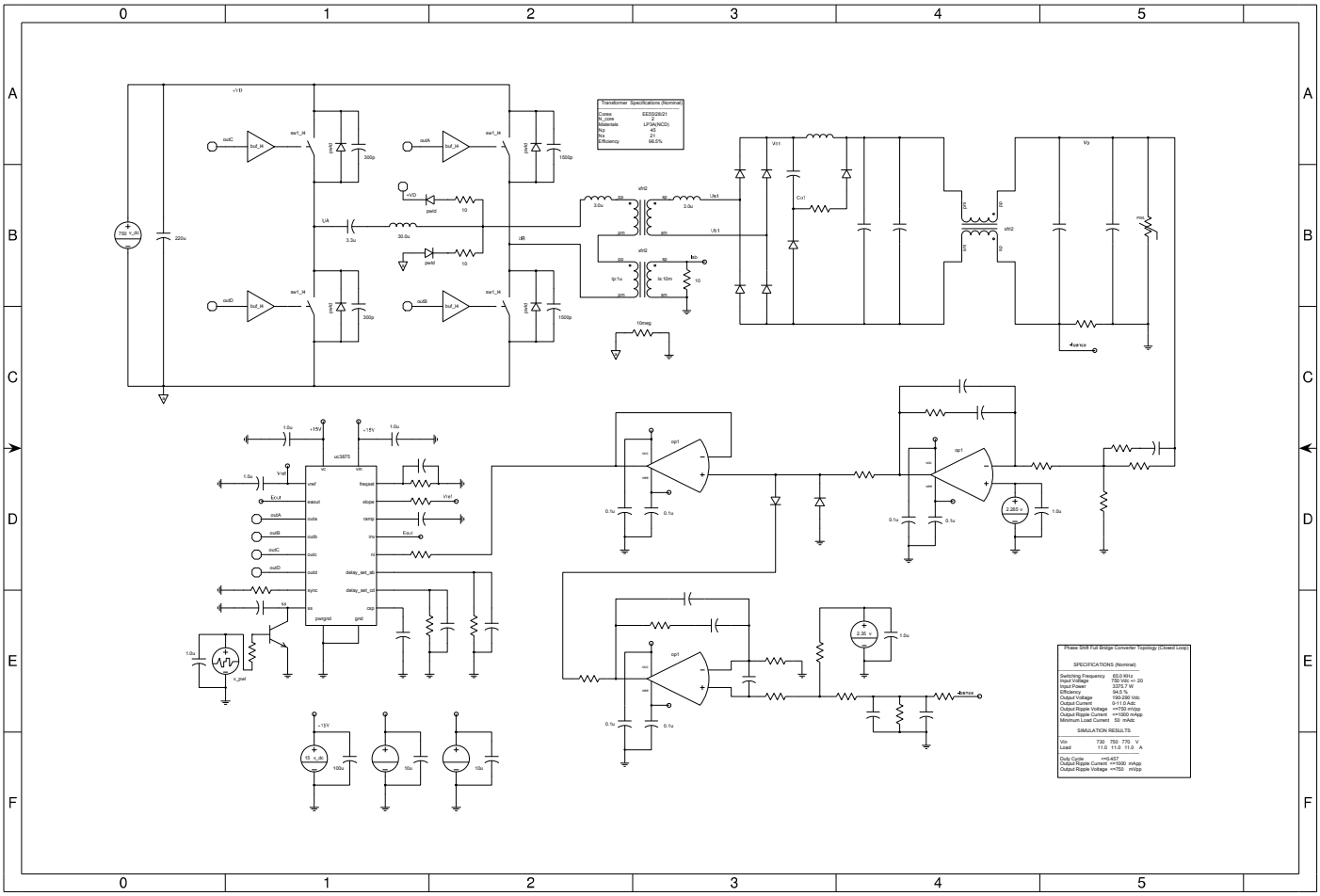
Transformer Specifications (Nominal)
Cores EE55/28/21
N_core 2
Materials LP3A(NCO)
Np 45
Ns 21
Efficiency 98.5%
Phase Shift Full Bridge Converter Topology (Closed Loop)
SPECIFICATIONS (Nominal)
Switching Frequency 85.0 KHz
Duty Cycle Range 0.0 - 20
Input Power 3270.7 W
Efficiency 94.5 %
Output Voltage 190-260 Vdc
Output Current 0-11.0 Adc
Output Ripple Voltage <=750 mVpp
Output Ripple Current <=1000 mApp
Minimum Load Current 50 mAdc
SIMULATION RESULTS
Vin 730 750 770 V
Load 11.0 11.0 11.0 A
Duty Cycle <=0.457
Output Ripple Current <=1000 mApp
Output Ripple Voltage <=750 mVpp