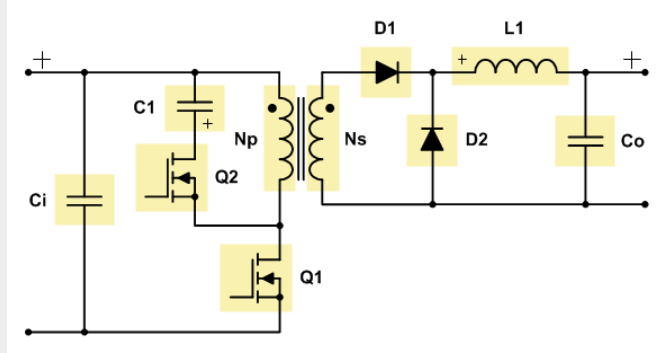


Design Values

Minimum Input Voltage: V
 Maximum Input Voltage: V
 Output Voltage: V
 Output Current: A
 Switching Frequency: kHz
 Diode Voltage Drop: V
 Inductor Current Ripple: %
 Maximum Duty Cycle: %
 Magnetization Current: %



Recommended Values

Turns Ratio: **4.24** : 1
 Transformer Inductance: **87.13** μ H
 Inductance: **1.70** μ H

Choose Values

Turns Ratio: : 1
 Transformer Inductance: μ H
 Inductance: μ H

Calculated Values at Input Voltage: 48.24 V

Period: 5.00 μ s Input Power: 178.50 W
 Duty Cycle: 42.29 % Output Power: 175.00 W
 On-Time: 2.11 μ s Rectifier Diode Losses: 1.48 W
 Off-Time: 2.89 μ s Freewheeling Diode Losses: 2.02 W
 Zero-Time: 0.00 μ s

Load Current: 35.00 A

L_{sec} : 6.25 μ H
 Mag. Current: 1.02 A
 Input Current: 3.70 A
 Current Ripple: 6.69 A
 19.11 %

Info

[Check TIDesigns™ Reference Design Library](#)



