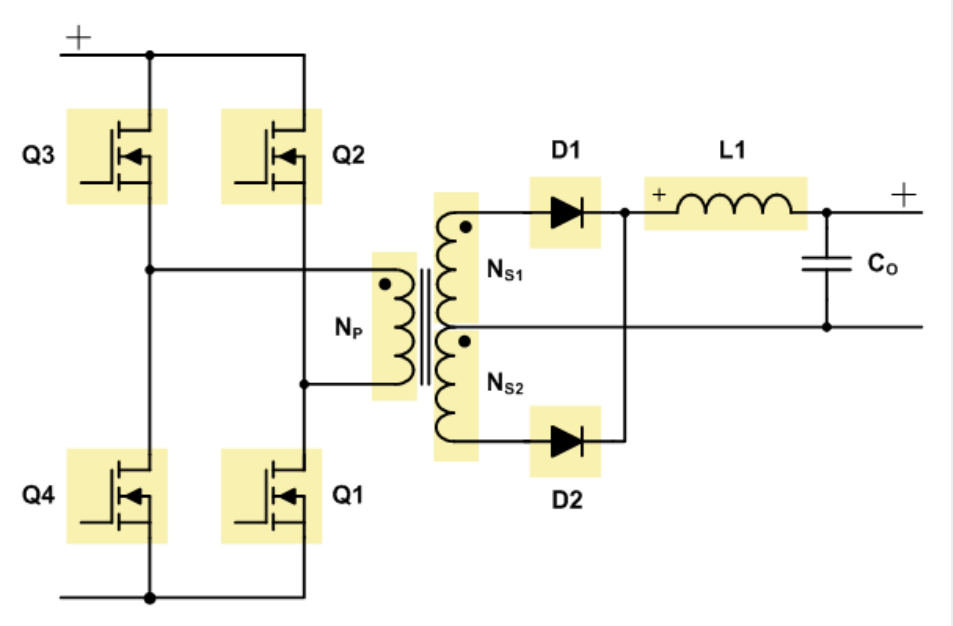
Design Values

Minimum Input Voltage:	44	V
Maximum Input Voltage:	55	V
Output Voltage:	200	V
Output Current:	5	A
Switching Frequency:	50	kHz
Diode Voltage Drop:	0.02	V
Inductor Current Ripple:	20	%
Maximum Duty Cycle:	90	%
Magnetizing Current:	5	%



Recommended Values

Calculated Turns Ratio:	0.20	: 1
Calculated Transformer Inductance:	313.60	µH
Calculated Inductance:	560.06	µH

Choose Values

Choose Turns Ratio:	0.2	: 1
Choose Inductance for Transformer:	300	µH
Choose Inductance:	600	µH

Calculated Values

Period:	20.00 µs	Input Power:	1000.10 W	L_{sec}:	7500.00 µH
Duty Cycle:	90.92 %	Output Power:	1000.00 W	Mag. Current:	1.33 A
On-Time:	9.09 µs	Rect. Diode Losses:	0.10 W	Input Current:	22.73 A
Off-Time:	0.91 µs			Current Ripple:	0.30 A
Zero-Time:	0.00 µs				

Info

Link to TI Power Management Products

Texas Instruments