

Positive half cycle

Zero crossing 1

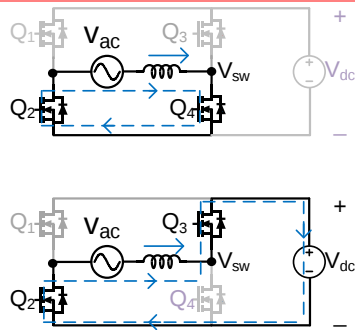
Zero crossing 2

Zero crossing 3

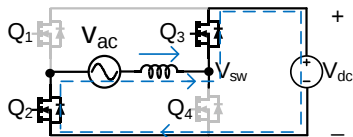
Negative half cycle

PFC Mode

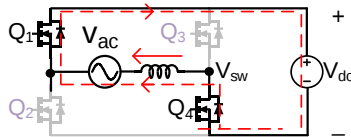
Inverter Mode



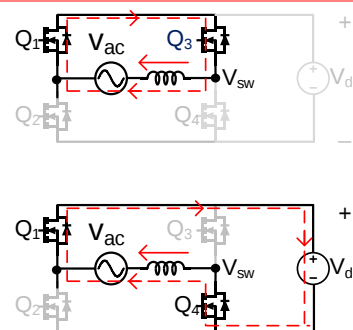
Q2 conducts



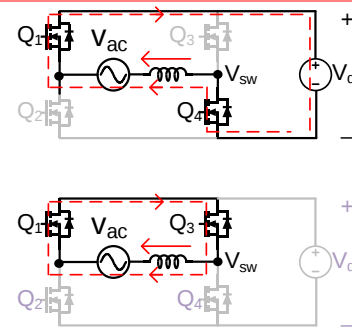
Q2 body diode conducts



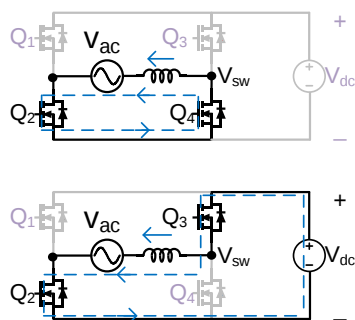
Q1 body diode conducts



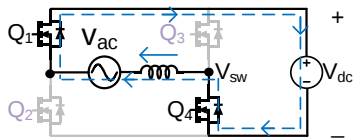
Q1 body diode conducts



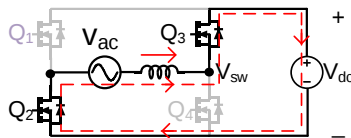
Q1 conducts



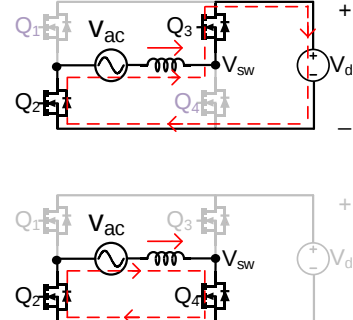
Q2 conducts



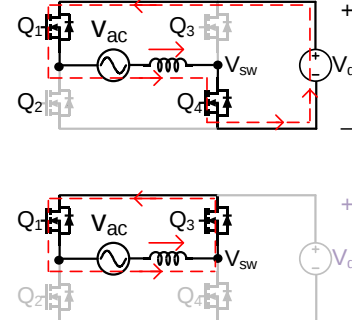
Q1 body diode conducts



Q2 body diode conducts



Q2 body diode conducts



Q1 conducts

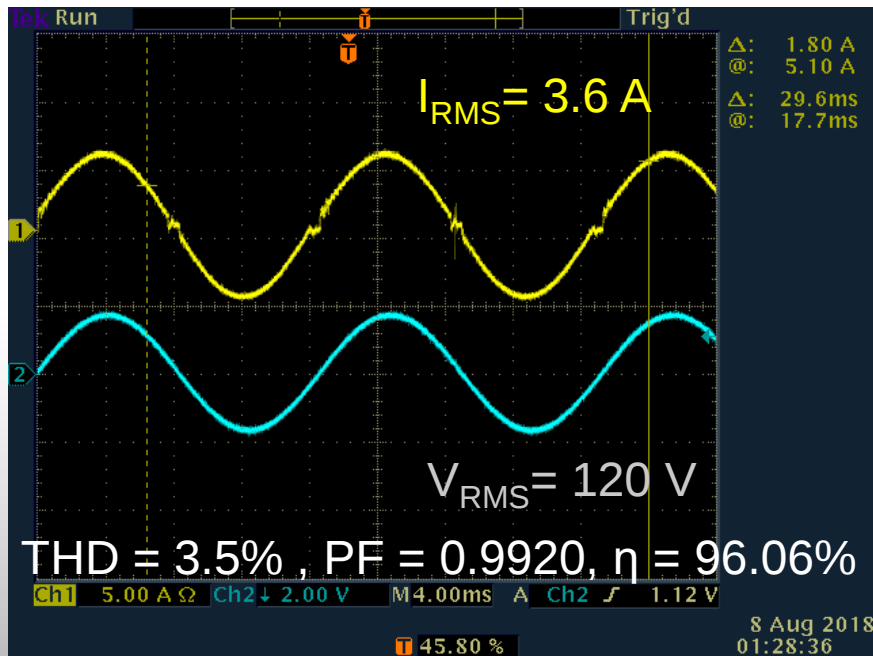
Transition1 : Q2 to Q1

Transition2 : Q1 to Q2

Transition3 : Q2 to Q1

DOCUMENTS

Low Line(120V) @ 60 Hz
($P_{out} = 430\text{ W}$)



High Line(230V) @ 60 Hz
($P_{out} = 830\text{ W}$)

