

PFC 3-Phase 4-Wire $V_{in}=115V/200V$ $P_{in}=25kW$

PFC 3-Phase 4-Wire $V_{in}=115V/200V$ $P_{in}=25kW$ Simulation Circuit

Input : $V_{in}=115Vac$

Output : $V_o=200Vdc+200Vdc$

Gate Drive : $V_d=10V$

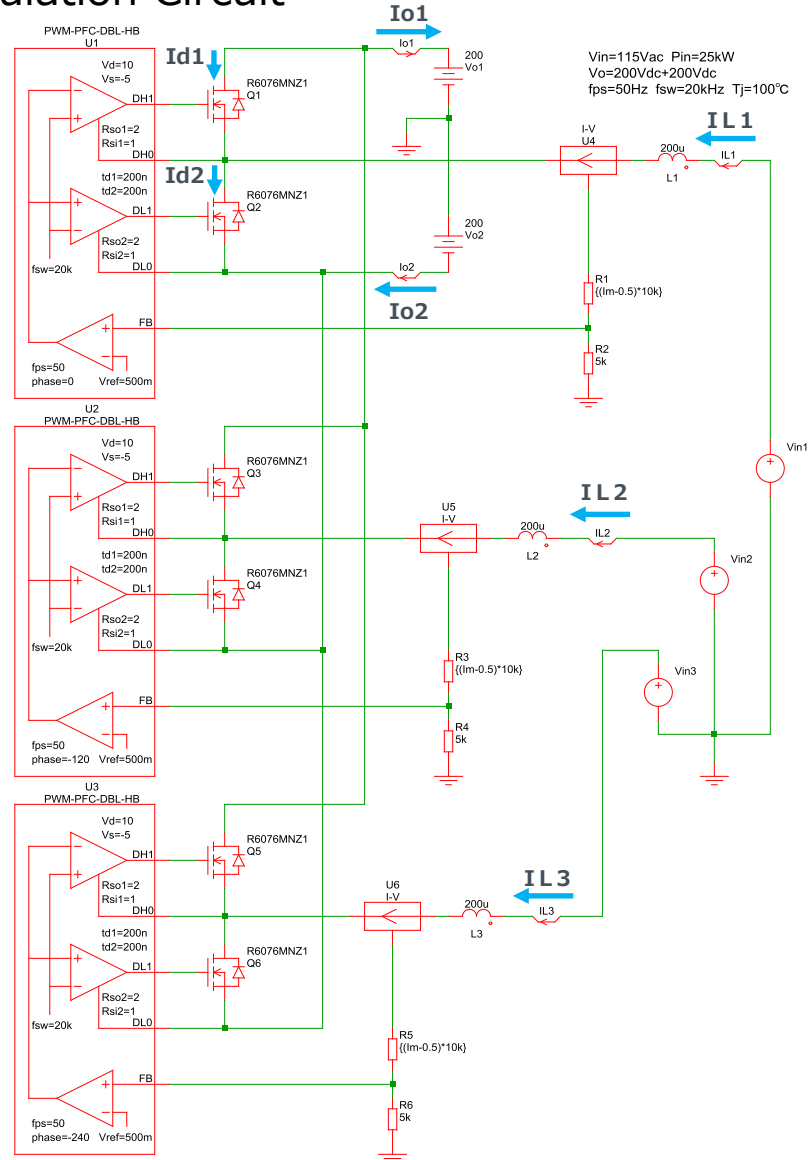
$R_{source}=2\Omega$

$R_{sink}=1\Omega$

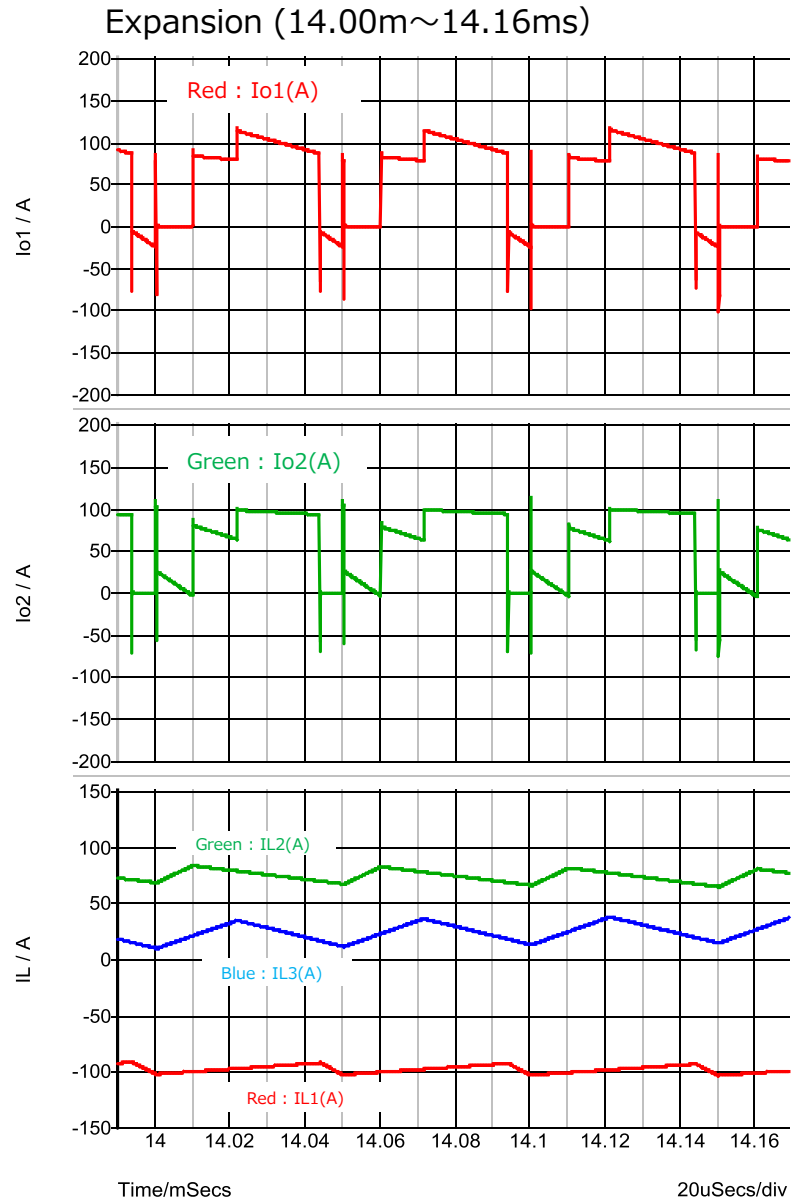
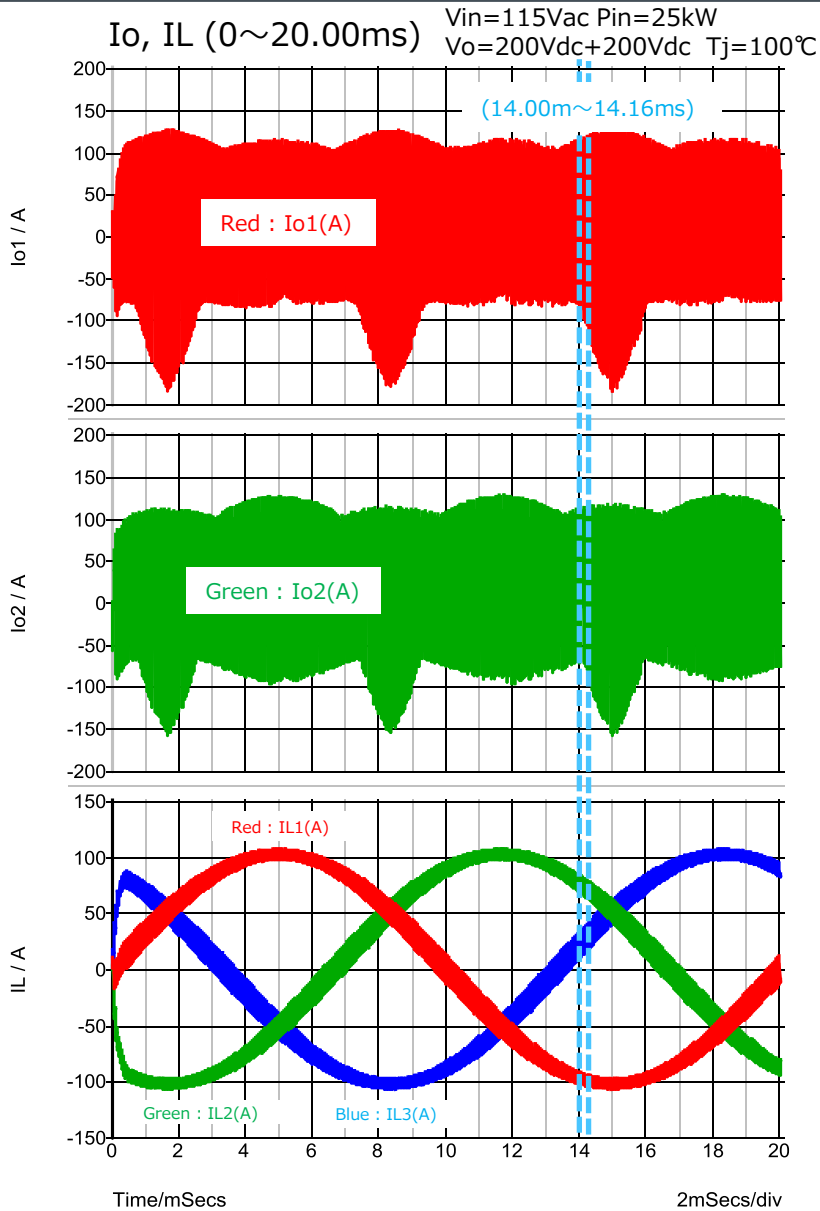
**Q1~Q6 : R6076MNZ1
MOSFET(600V 76A)**

L1,L2,L3 : 200uH

$T_j=100^\circ C$



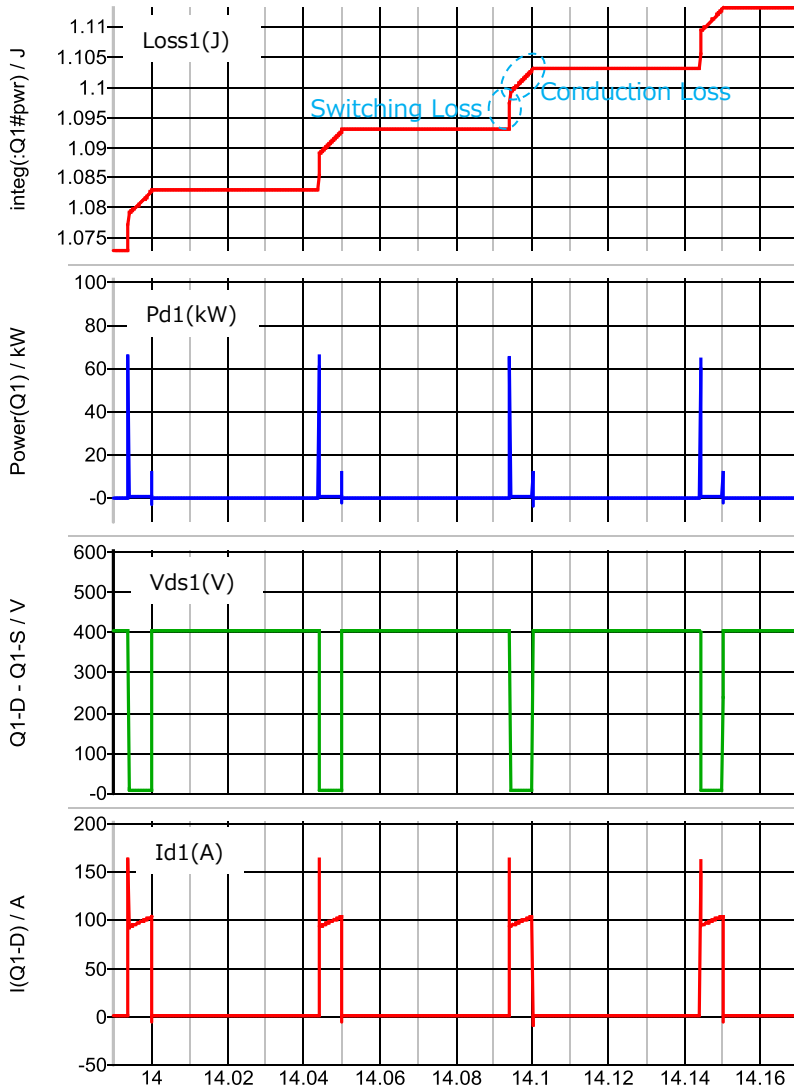
Simulation Waveform 1



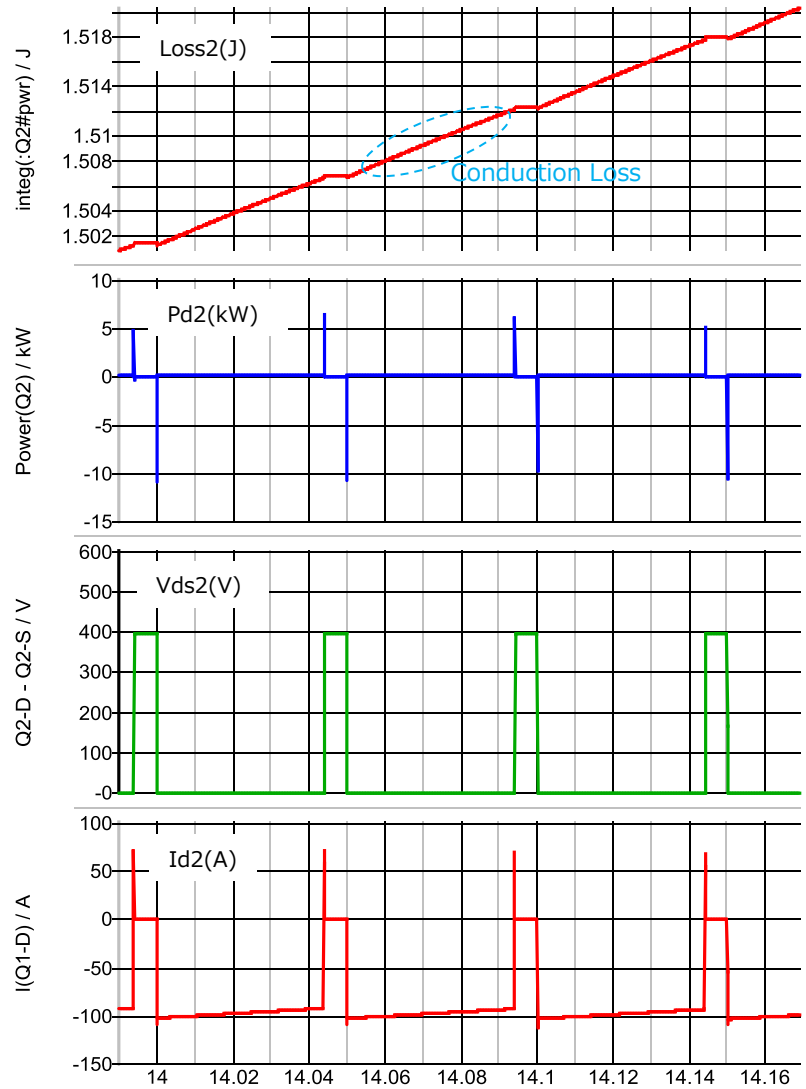
Simulation Waveform 2



Q1_Loss1,Pd1,Vds1,Id1 Vin=115Vac Pin=25kW
Vo=200Vdc+200Vdc Tj=100°C



Q2_Loss2,Pd2,Vds2,Id2 Vin=115Vac Pin=25kW
Vo=200Vdc+200Vdc Tj=100°C



Efficiency, Power Dissipation

