

DC-AC Full-Bridge Inverter $V_o=200V$ $I_o=100A$

DC-AC Full-Bridge Inverter $V_o=200V$ $I_o=100A$ Simulation Circuit

Input : $V_{in}=500V_{dc}$

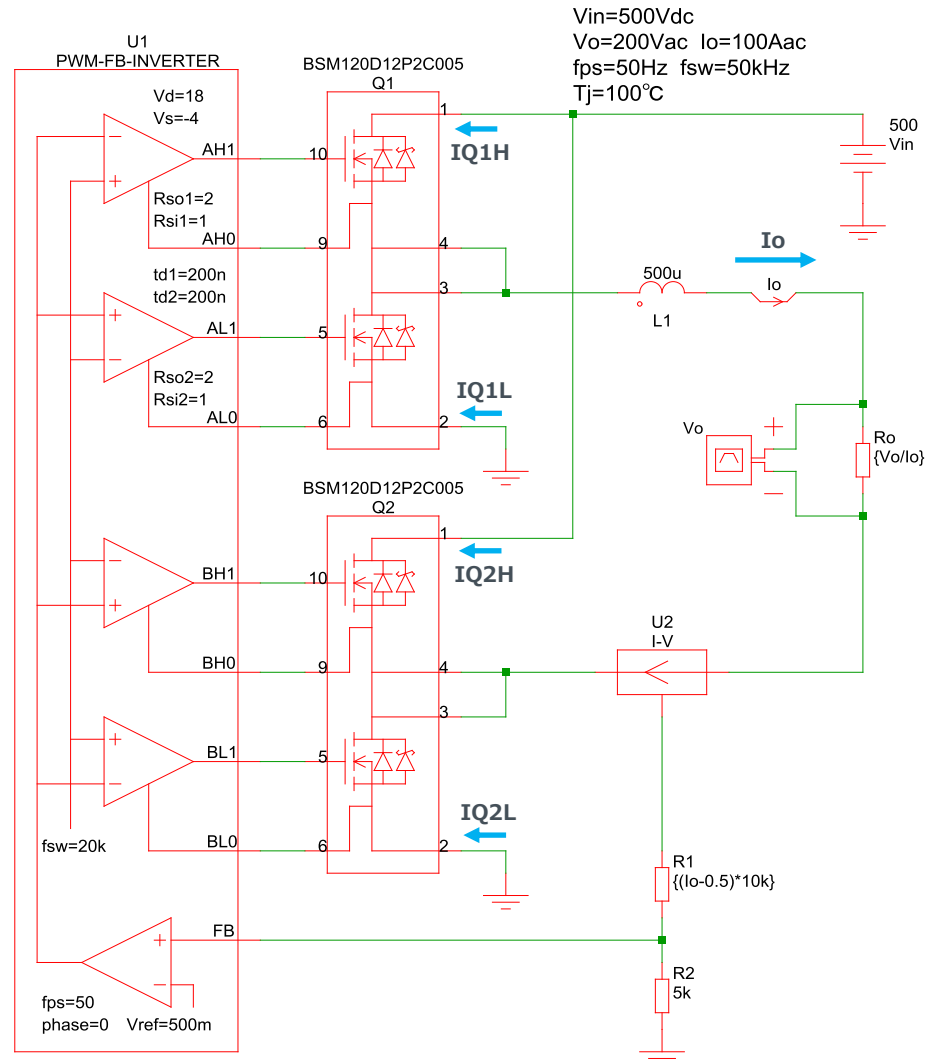
**Output : $V_o=200V_{ac}$
 $I_o=100A_{ac}$**

Gate Drive : $V_d=18V$
 $R_{source}=2\Omega$
 $R_{sink}=1\Omega$

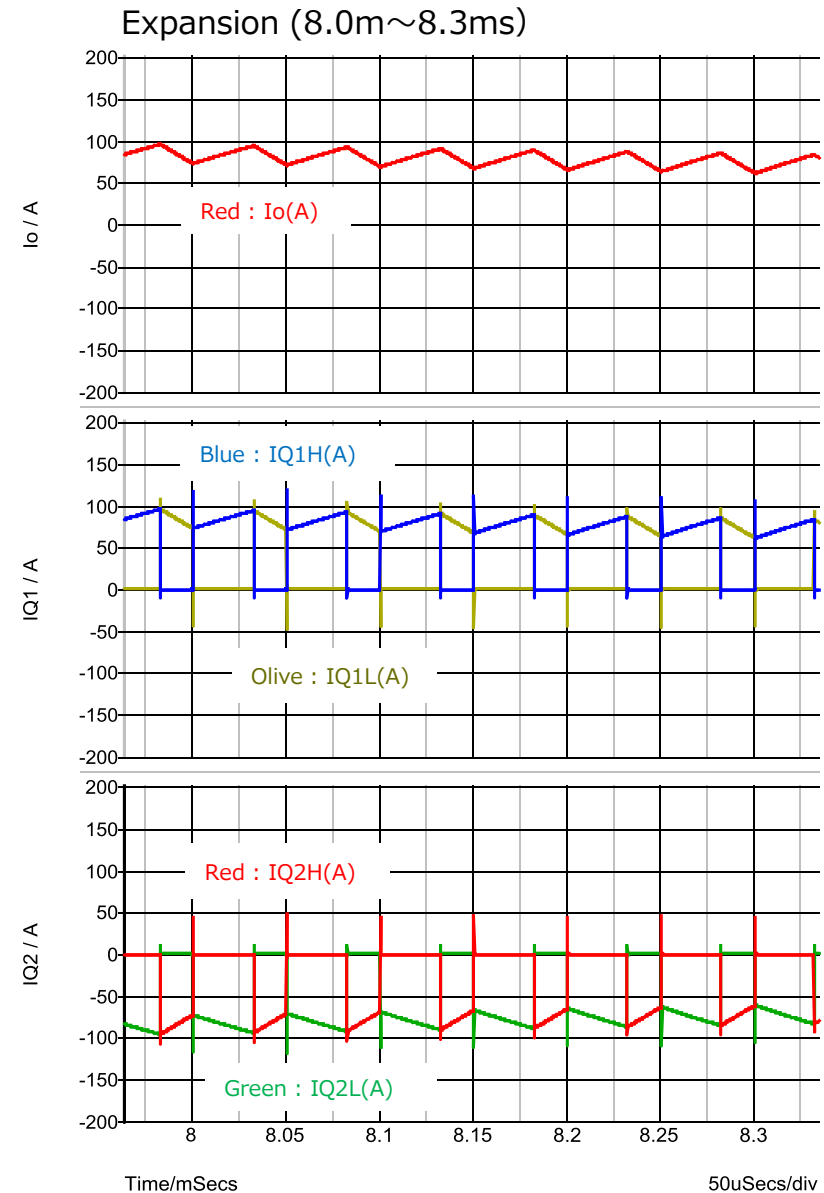
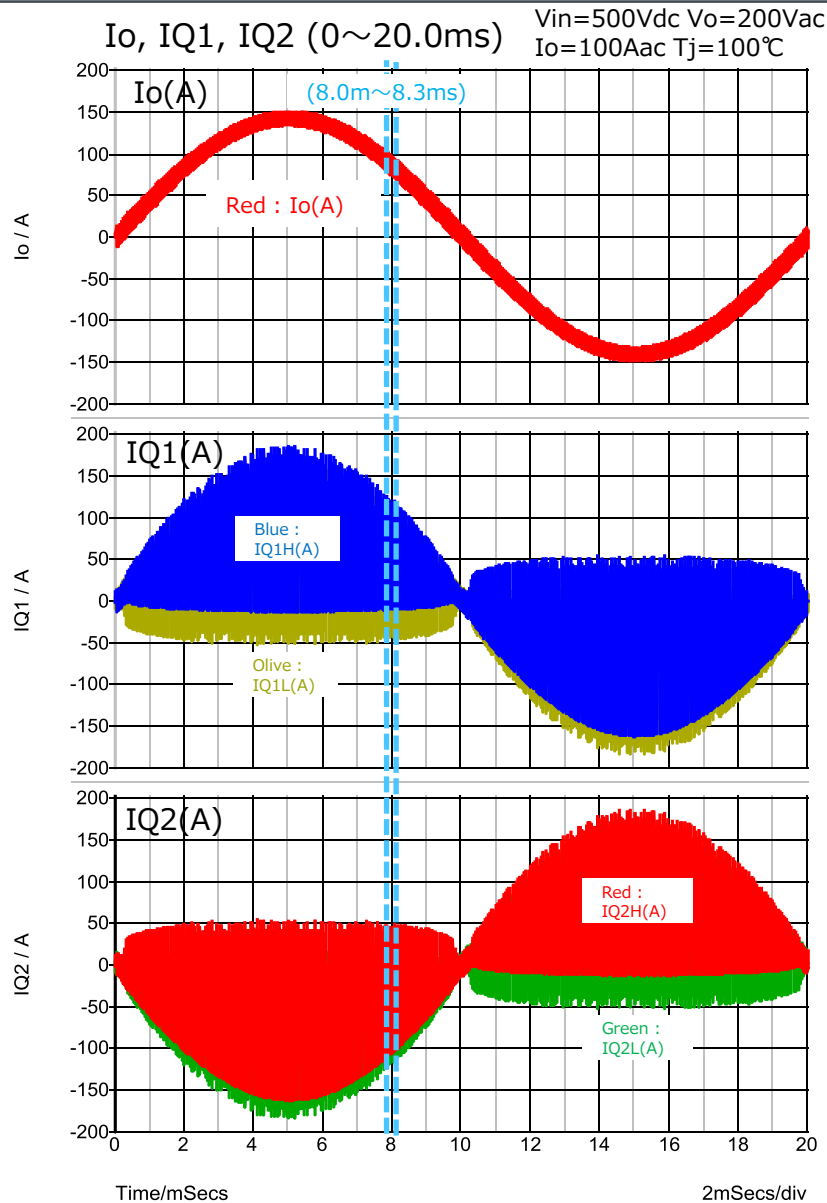
Q1 : BSM120D12P2C005
SiC Power Module
(1200V 120A)

L1 : 500uH

$T_j = 100^\circ\text{C}$



Simulation Waveform



Efficiency, Power Dissipation

