

# DC-AC IH Full-Bridge Inverter Po=20kW

## DC-AC Full-Bridge Inverter Po=20kW Simulation Circuit

**Input :  $V_{in}=800V_{dc}$**

**Output :  $I_o=70A_{ac}$**

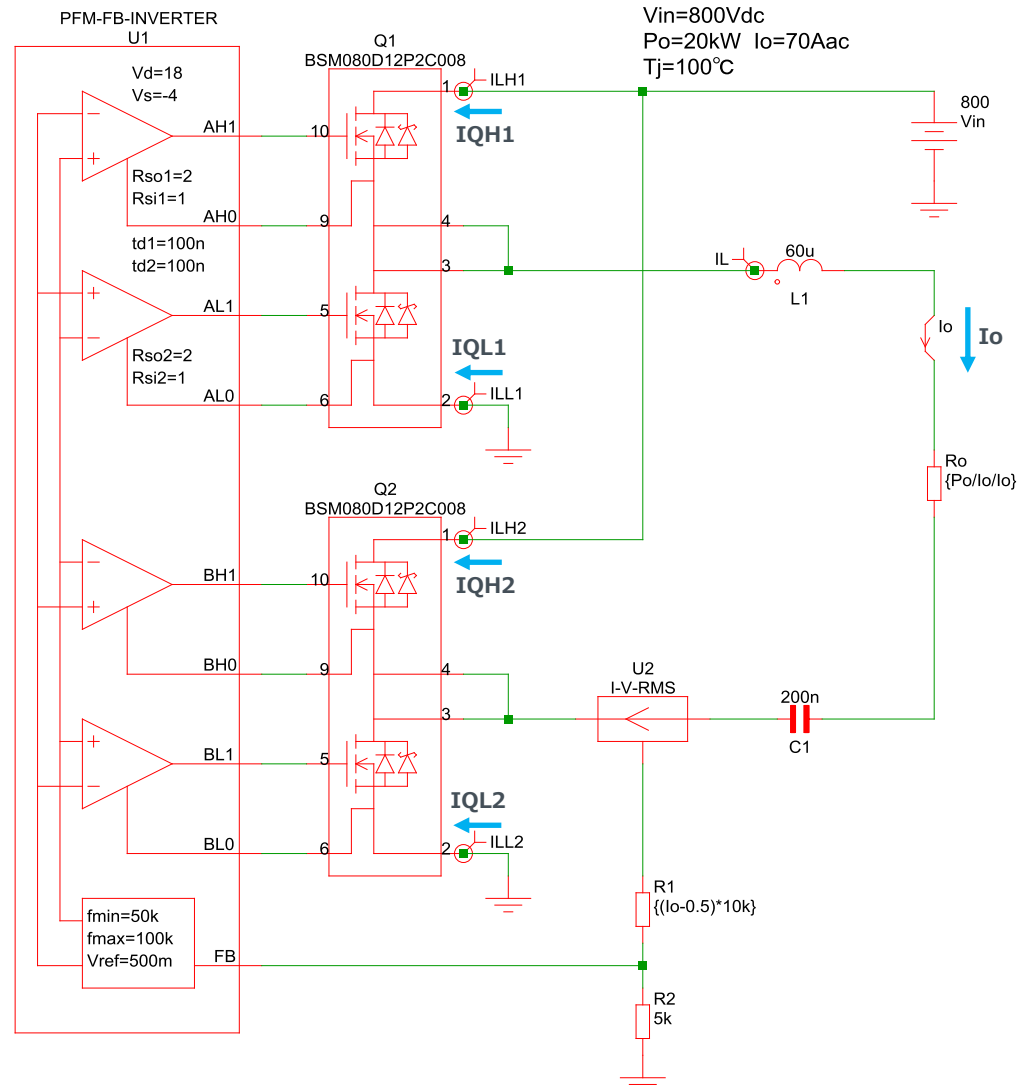
**Gate Drive :  $V_d=18V$**   
 **$R_{source}=2\Omega$**   
 **$R_{sink}=1\Omega$**

**Q1,Q2 : BSM080D12P2C008**  
**SiC Power Module**  
**(1200V 80A)**

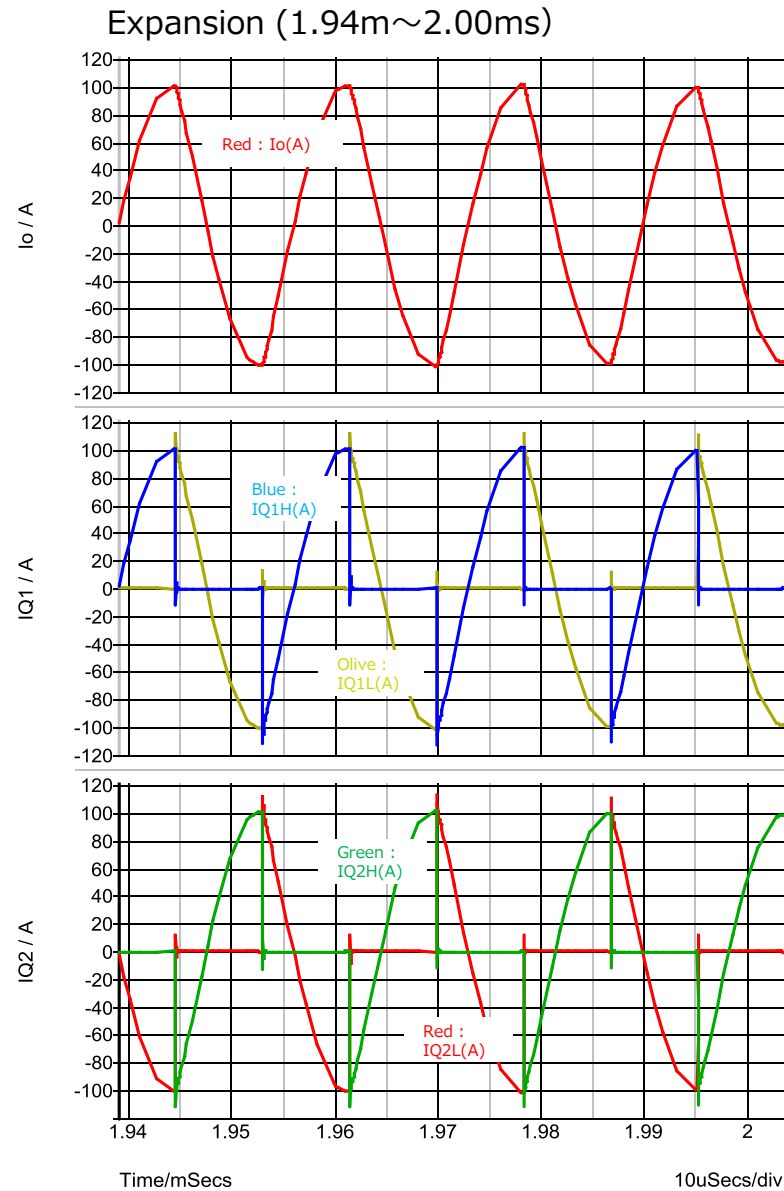
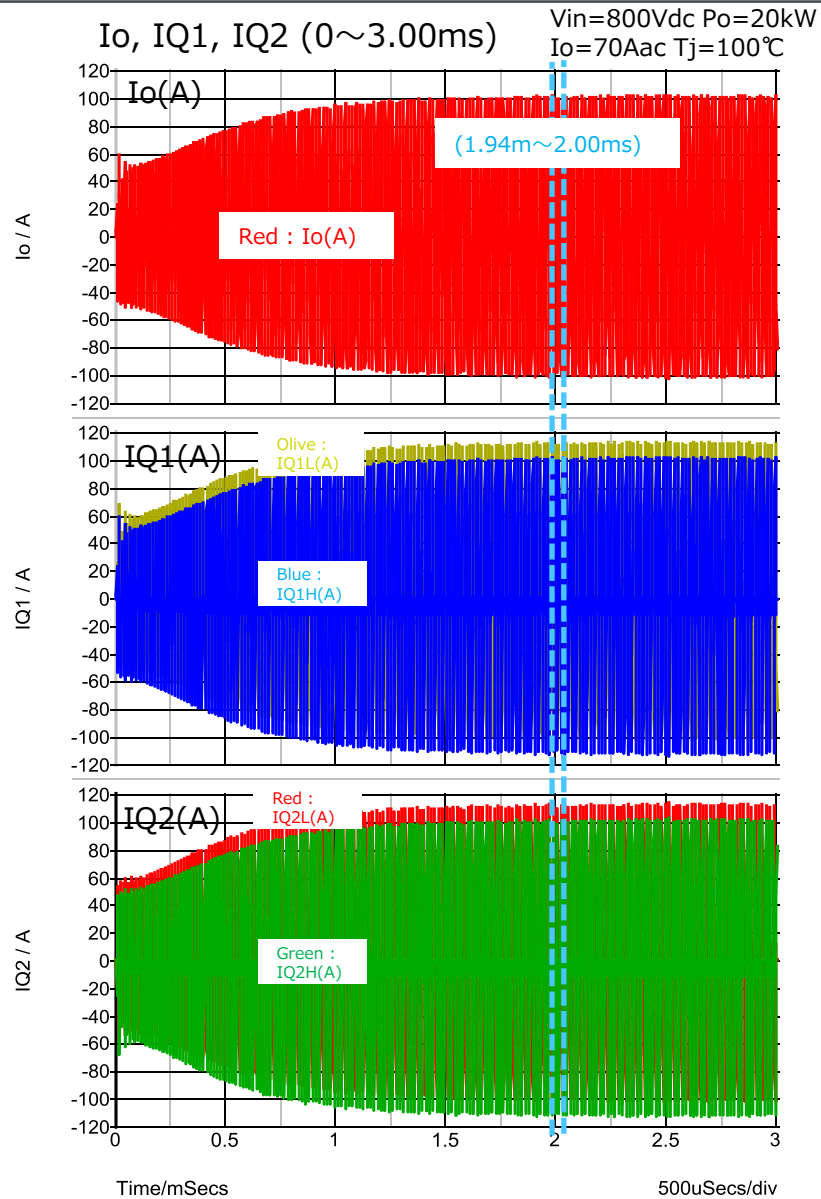
**L1 : 60uH**

**C1 : 200nF**

**$T_j=100^\circ C$**



# Simulation Waveform



# Efficiency, Power Dissipation

