

B-3. DC-AC Half-Bridge Inverter $V_o=200V$ $I_o=100A$

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

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

GD-IC : **BM61S41RFV**

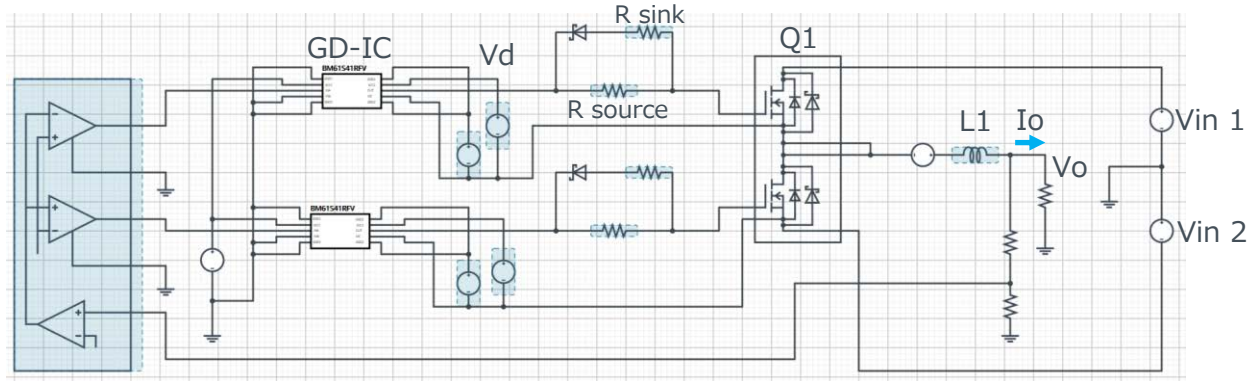
Gate Drive : $V_d=18V$
 $R_{source}=2\Omega$
 $R_{sink}=1\Omega$
 $f_{sw}=20kHz$

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

L1 : 500uH

$T_j=100^\circ C$

B-3. DC-AC Half-Bridge Inverter $V_o=200V$ $I_o=100A$ Simulation Circuit



Notes

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