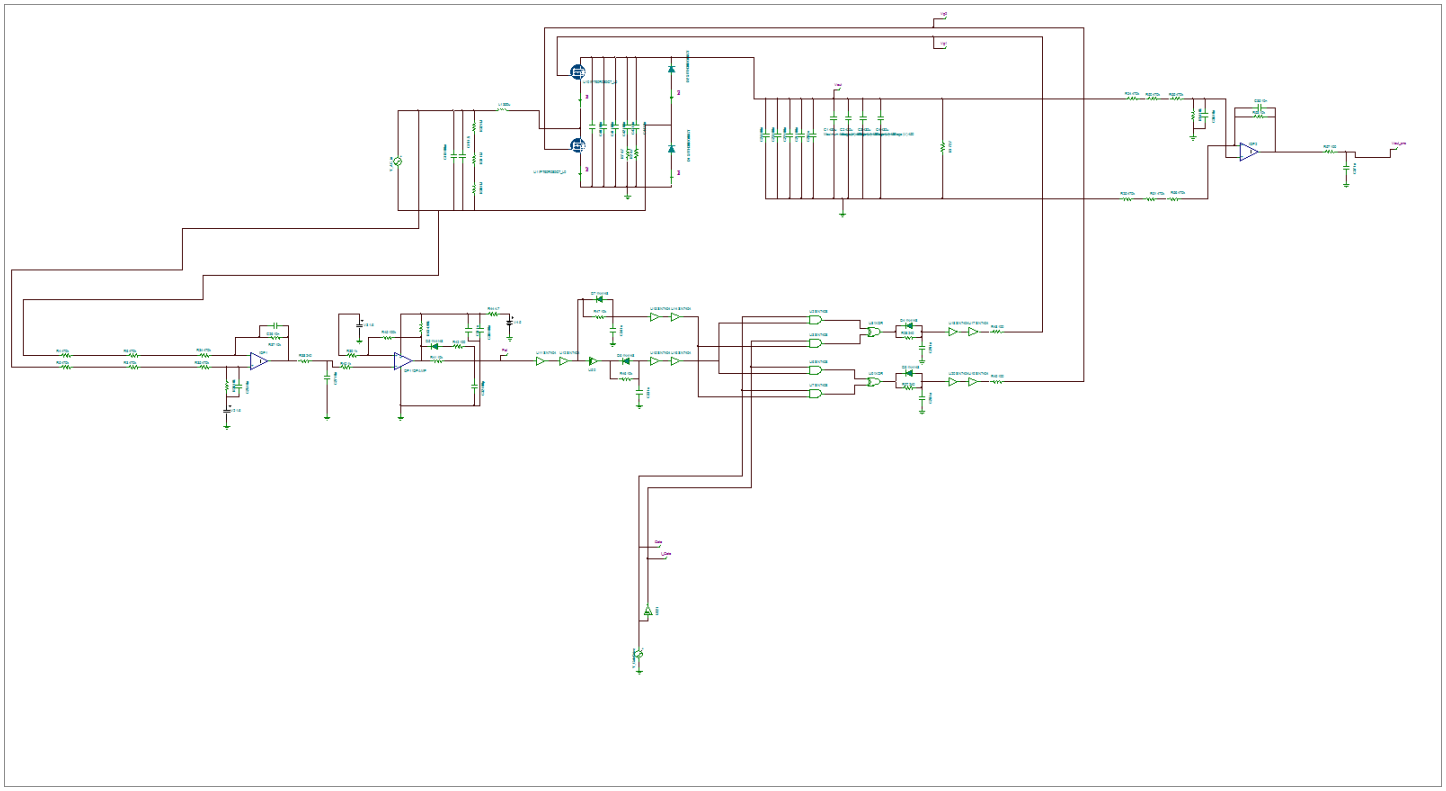
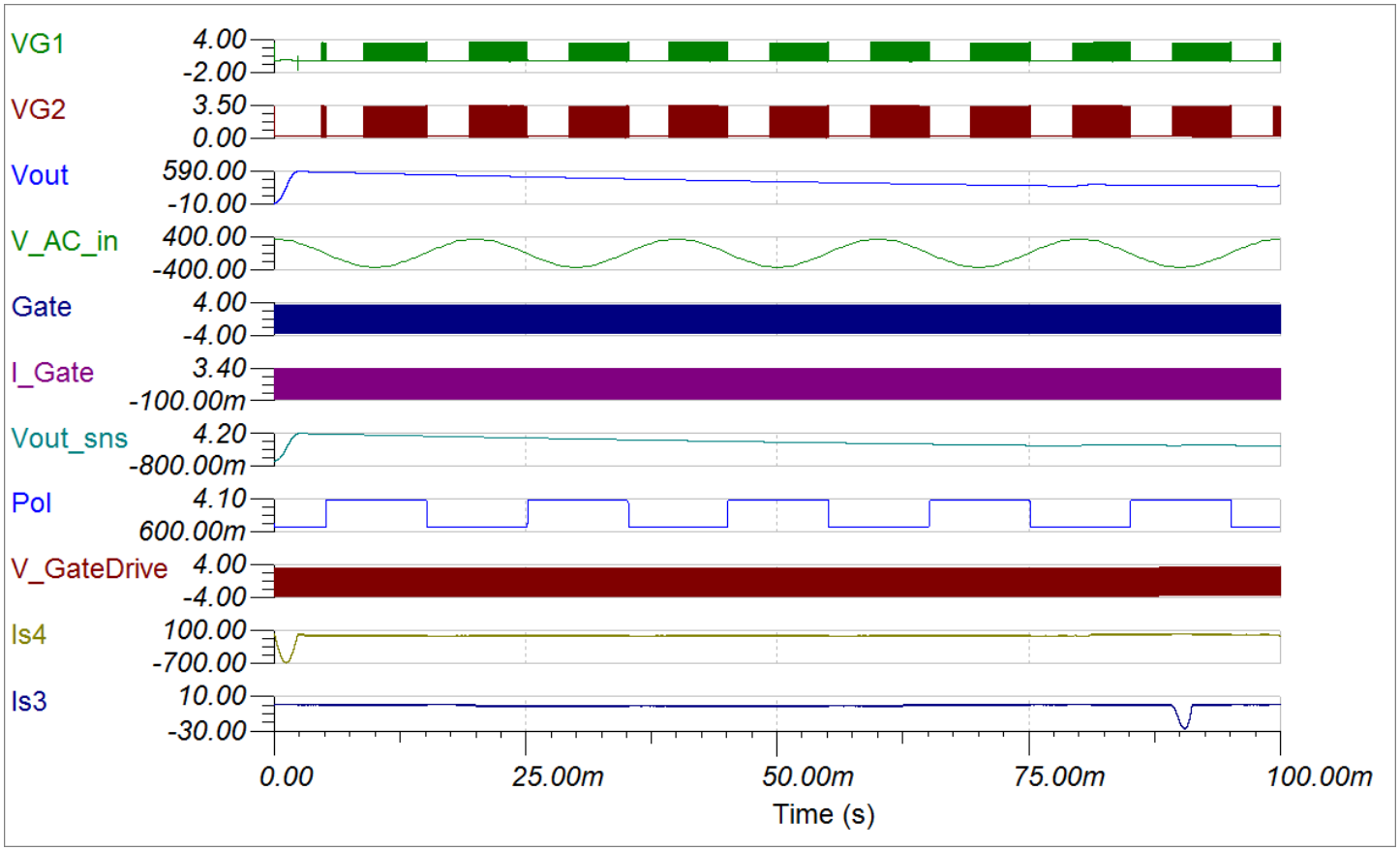
ttpwitout_cs



Bill of Materials

Type	Name	Value	Footprint
And gate x 4	U2, U3, U6, U7	SN7408 x 4	
Battery x 3	V2, V3, V4	1.6 x 2, 5	
Capacitor x 29	C1, C18, C19, C2, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C3, C30, C31, C32, C33, C34, C35, C36, C37, C4, C40, C41, C42, C43, C44	1.5, 100m, 100n x 8, 100p, 10n x 7, 1n x 3, 1u x 4, 430u x 4	CAPAE660X600N x 29
Current Arrow x 4	Is1, Is2, Is3, Is4		
Diode x 5	D3, D4, D5, D6, D7	1N4148 x 5	
IPT60R080G7_L0 x 2	U1, U10	IPT60R080G7_L0 x 2	
Ideal Op. Amplifier x 2	IOP1, IOP2		
Inductor	L1	350u	INDM108103X400N
Inverter x 10	U11, U12, U13, U14, U15, U16, U17, U18, U19, U20	SN7404 x 10	
Operational amplifier	OP1	!OPAMP	
Resistor x 37	R1, R2, R24, R25, R27, R28, R3, R30, R31, R32, R34, R35, R36, R37, R38, R39, R4, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R5, R50, R51, R53, R54, R55, R56, R57, R6, R7	100 x 4, 100k, 10k x 7, 1M x 3, 1k x 2, 4.7 x 3, 470k x 12, 72.7, 240 x 3, 4.99k	RESC0603X26N x 37
STTH30RQ06GY x 2	D1, D2	STTH30RQ06GY x 2	
Sch-NOTgate x 2	U22, U5	0, 1	
Voltage Generator x 2	V_AC_in, V_GateDrive		
Voltage Pin x 7	Gate, I_Gate, Pol, Vg1, Vg2, Vout, Vout_sns		
Xor gate x 2	U8, U9	!XOR x 2	

Mixed Transient



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