Design 1

12V supply (CCP2) and ground from vehicle alternator/ battery (175A)

150A breaker

SW 1

GRD

60A breaker

60A breaker

Orion Smart DC-DC Charger1

Orion Smart DC-DC Charger2

60A breaker

60A breaker

DC fuse block and load connections

L1
L2
L3
L4
L5
L6
L7
L8

Smart Battery Protect

Smart Shunt

negative

House Lithium1 270A

250A fuse

Positive bus bar

150A breaker

SW 2

DC neg in

DC pos in

Ground bus bar

Phoenix 1200 Inverter (Ground and neutral bonded internally)

Case grd

Bluetooth smart dongle

ground

AC out

AC breaker panel
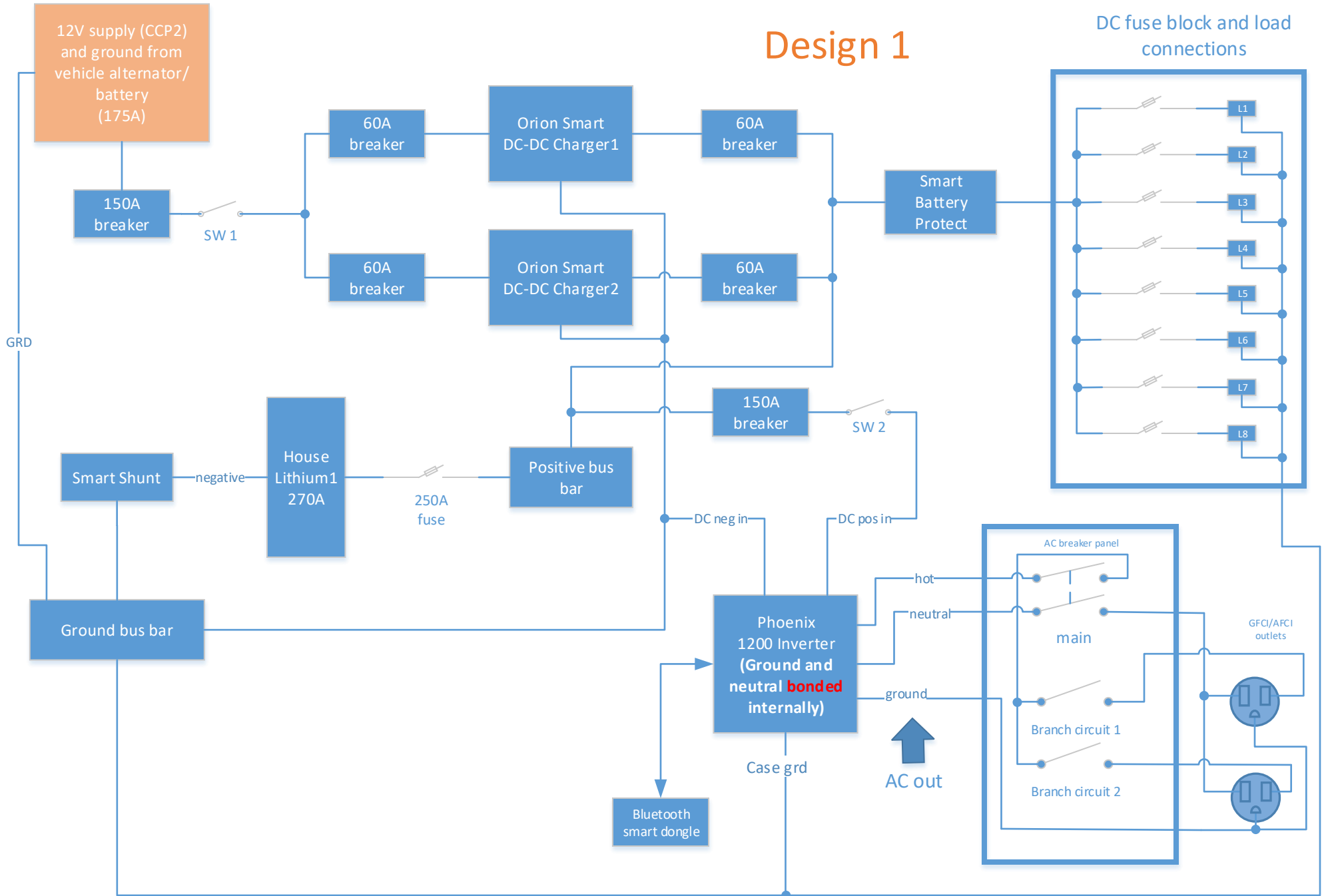
hot

neutral

main

Branch circuit 1

Branch circuit 2

GFCI/AFCI outlets

Cerbo GX Communication (bluetooth and wired comm)