System Ground Scheme

Cap Charger, Flyback converter

+22-25V Battery

+15 Vcc

 HVout

6 Cell LiPo
22-25 Vdc

**uP**

Battery Monitor

DC-DC converters

+15 Vdc

+5 Vdc

Tone Burst Conditioning

Timing DI
PWM
(Cap Coupled)

+15 – 0 OpAmps

PCB GND

Then

Chassis GND

Chassis GND

Isolated Supply
22-25 Vdc +15
 -5

Isolated Supply
22-25 Vdc +15
 -5

Isolated Supply
22-25 Vdc +15
 -5

Isolated Supply
22-25 Vdc +15
 -5

SiC
FET

Isolated Driver

Isolated Driver

SiC
FET

Isolated Driver

LOAD

SiC
FET

SiC
FET

Isolated Driver