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