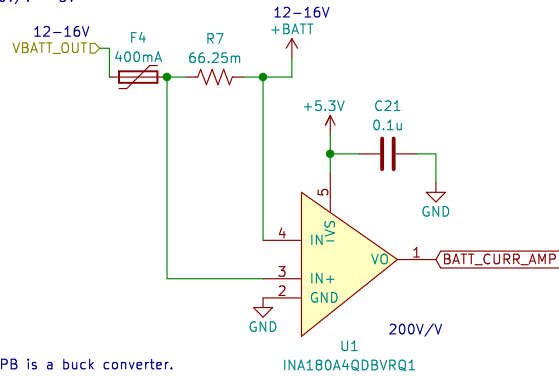
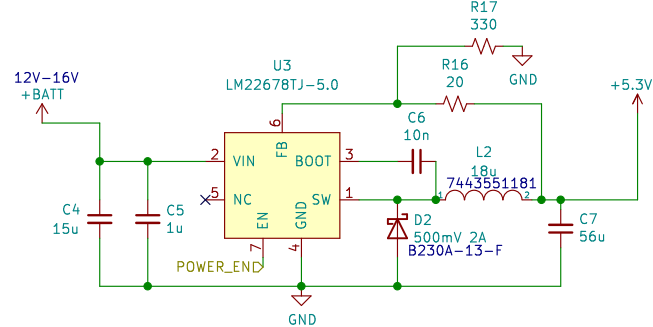


# Main Power Supplies

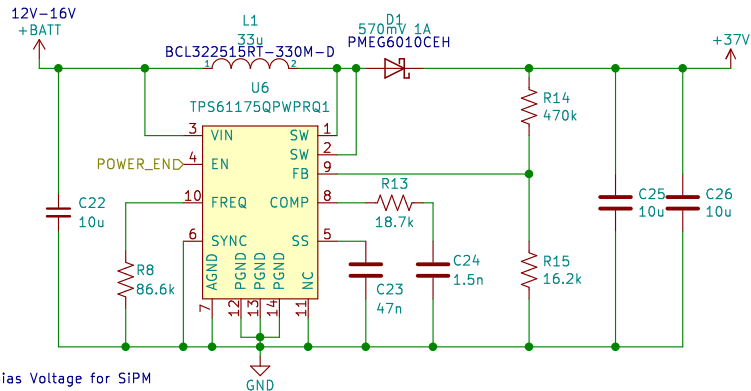
$66.25\text{mR} \cdot I \cdot 200\text{V/V} = 5\text{V}$   
 $I_{\text{max}} = 400\text{mA}$



LM22678TJ-5.0/NOPB is a buck converter.  
 $I_{\text{out}}: 1.5\text{A}$   
 Values are taken from WEBENCH power designer  
<https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=68E5BFACDBC533EB>  
 PDF version:  
<https://drive.google.com/file/d/13pYM-p7NzZnNQYZXknj9P6BV4uZ4R9wv/view?usp=sharing>



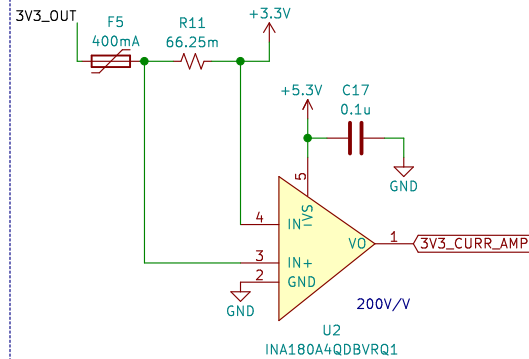
TPS61175 is a boost converter.  
 Max  $I_{\text{out}}$  rating: 3A  
 Values are taken from WEBENCH power designer  
<https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=72ECE7EF0AA4EE07>  
 PDF version:  
<https://drive.google.com/file/d/1ktwurg3Bjmdxpc3J00zTu8lIix18m34/view?usp=sharing>



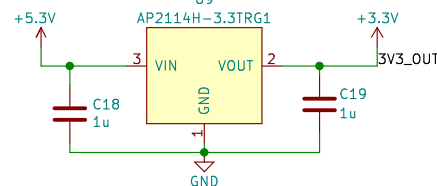
Bias Voltage for SIPM

# Logger Board Power Supplies

$66.25\text{mR} \cdot I \cdot 200\text{V/V} = 5.3\text{V}$   
 $I_{\text{max}} = 400\text{mA}$

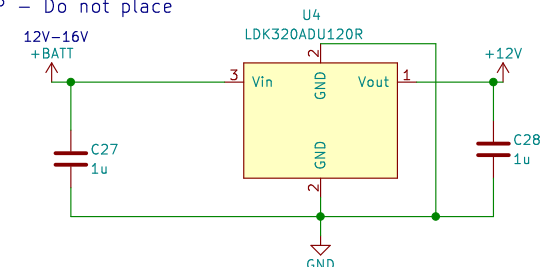


AP2114H-3.3TRG1 is a 3.3V LDO  
 $I_{\text{out}} = 600\text{mA}$



1uF capacitors as per datasheet directly (no calculations)  
 LDK320ADU120R is a 12V fixed-voltage regulator.  
 Max  $I_{\text{out}}$  rating: 0.2A

DNP – Do not place



Sheet: /battery\_management/  
 File: battery\_management.sch

**Title:**

Size: A4

Date:

KiCad E.D.A. eeschema (5.1.9)–1

**Rev:**

Id: 2/4



