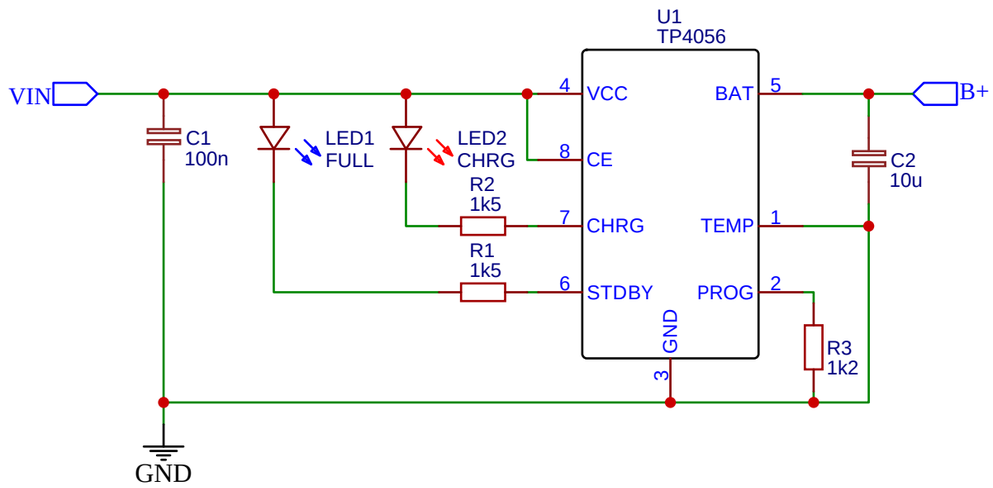
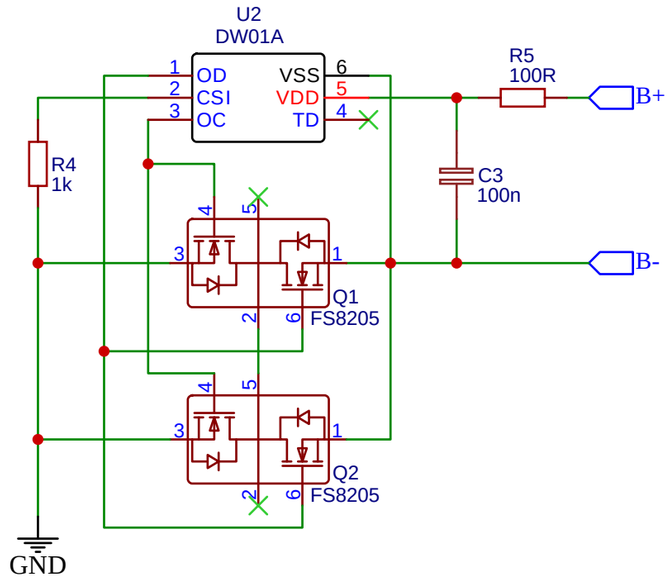
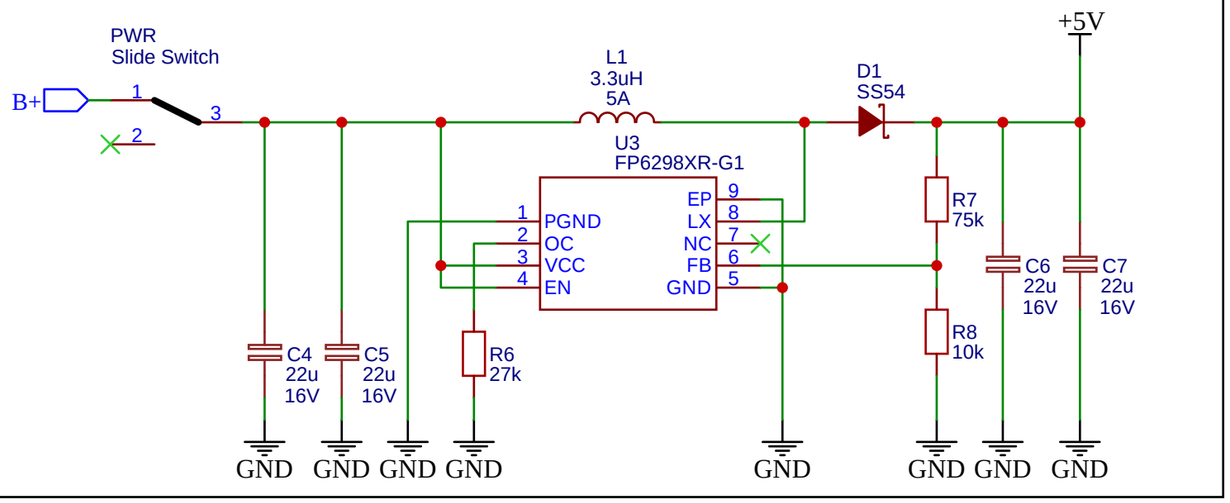
Battery Charger



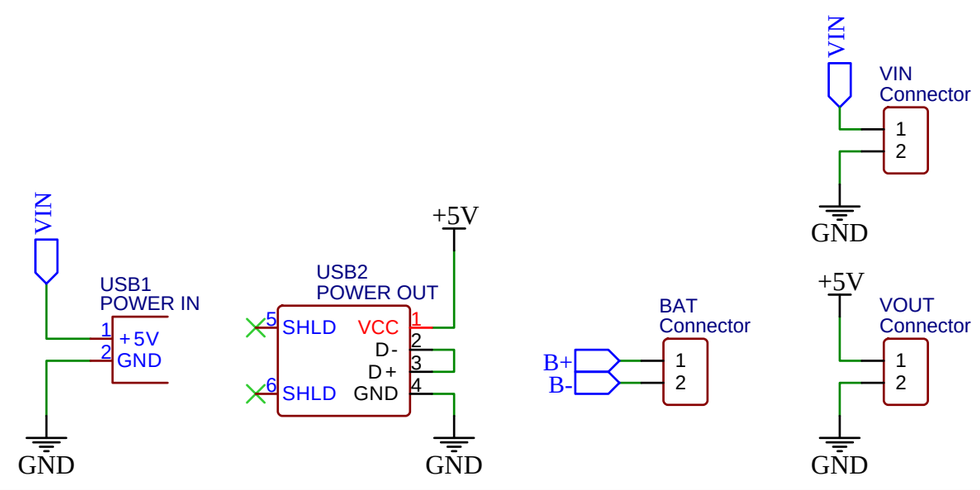
Battery Protection



5V Boost Converter



Connectors



Set charging current by selecting R3
1k2 - 1000mA (max)
1k5 - 780mA
2k - 580mA
4k - 300mA

$$R3 = \frac{1200V}{I\_LOAD}$$

Set switching current limit by selecting R6

$$R6 = \frac{110000}{I\_OUT - 0.3} \quad \text{(max 4.5A / 27k)}$$

Set output voltage by selecting R7/R8
V_OUT = 0.6V * (1 + R7 / R8)
(max 9V)

Only use unprotected Li-Ion batteries which are rated for a discharge current of at least 5A !

TITLE: Li-Ion Battery Charger/Protector/5V 2A Booster	REV: 1.0
EasyEDA	Company: wagiminator / Sheet: 1/1
	Date: 2020-03-07 Drawn By: Stefan Wagner