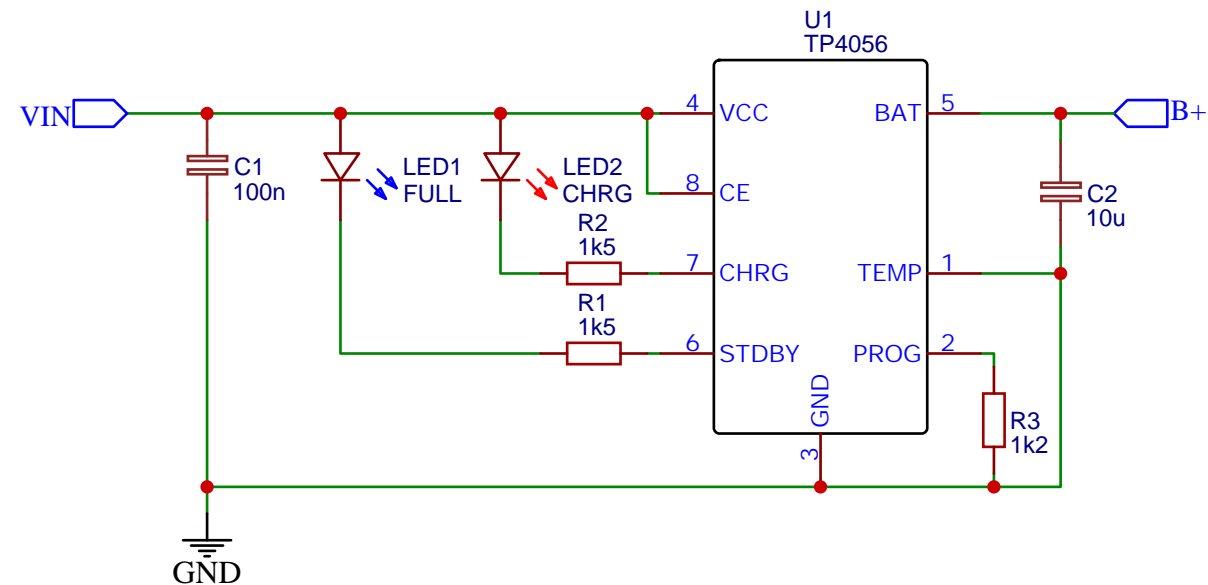
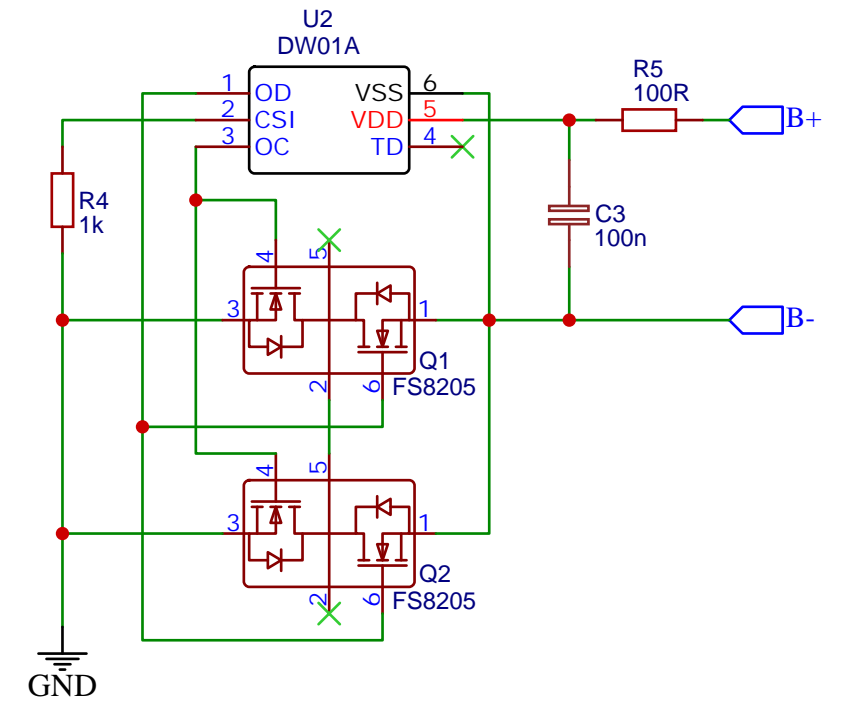


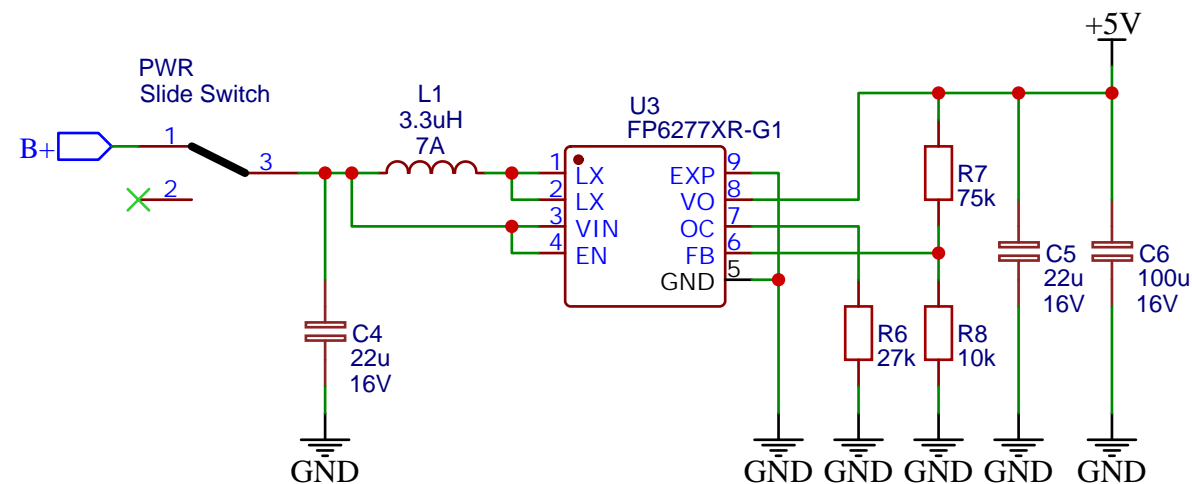
Battery Charger



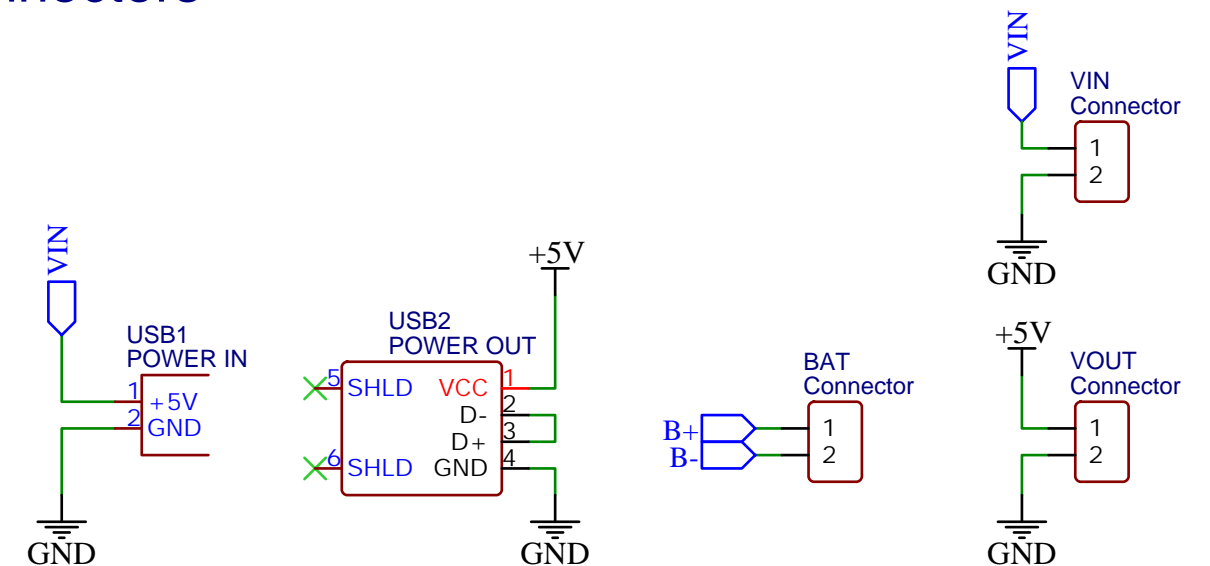
Battery Protection



5V Boost Converter



Connectors



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

$$R3 = \frac{1200V}{I_{LOAD}}$$

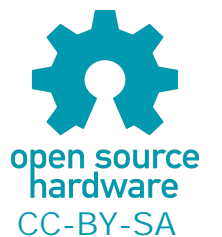
Set switching current limit by selecting R6

$$R6 = \frac{180000}{I_{OUT} - 0.2} \quad (\text{max } 7A / 27k)$$

Set output voltage by selecting R7/R8

$$V_{OUT} = 0.6V * (1 + R7 / R8)$$

 (max 5.3V)



Only use unprotected Li-Ion batteries which are rated for a discharge current of at least 7A !

TITLE: Li-Ion Battery Charger/Protector/5V 3A Booster		REV: 1.0
EasyEDA	Company: waginator	Sheet: 1/1
	Date: 2020-03-07	Drawn By: Stefan Wagner