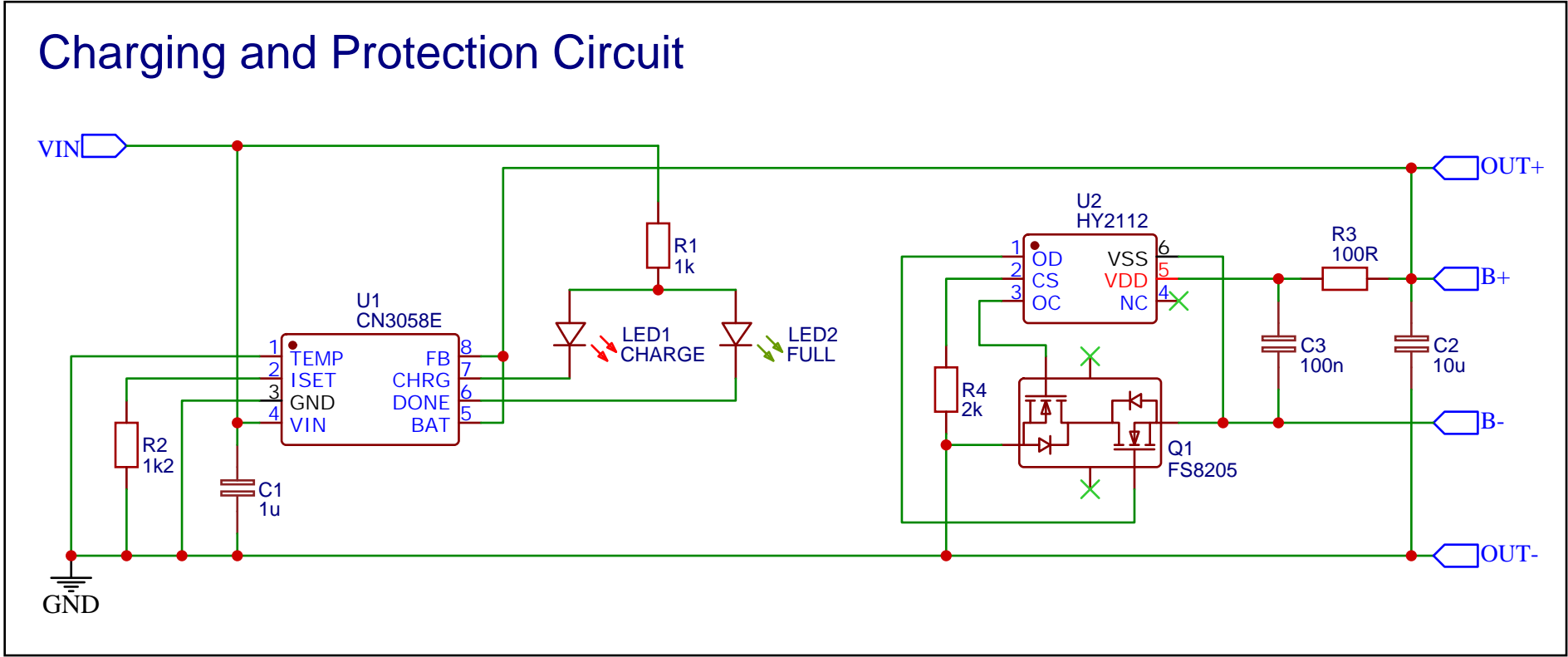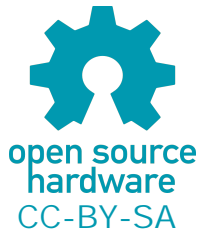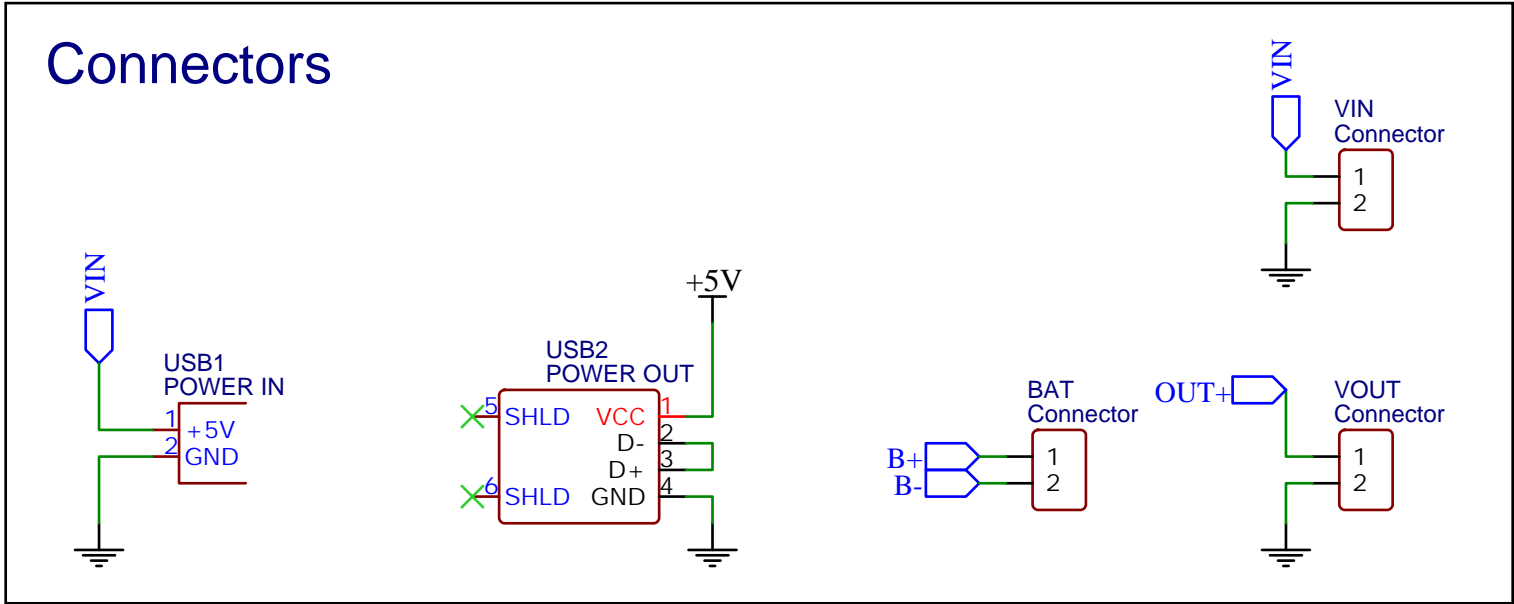Set charging current by selecting proper R2

$$I = \frac{1218V}{R2} \quad \text{(max 1A)}$$

Charging and Protection Circuit

VIN

U1
CN3058E
1 TEMP FB 8
2 ISET CHRG 7
3 GND   DONE 6
4 VIN   BAT 5

R2
1k2

C1
1u

GND

R1
1k

LED1
CHARGE

LED2
FULL

U2
HY2112
1 OD   VSS 6
2 CS   VDD 5
3 OC   NC 4

R4
2k

Q1
FS8205

R3
100R

C3
100n

C2
10u

OUT+

B+

B-

OUT-

Connectors

VIN

USB1
POWER IN
1 +5V
2 GND

USB2
POWER OUT
5 SHLD   VCC 1
         D- 2
         D+ 3
6 SHLD   GND 4

+5V

BAT
Connector
B+ 1
B- 2

OUT+

VOUT
Connector
1
2

VIN
Connector
1
2

VIN

TITLE:
LiFePO4 Battery Charger and Protector

REV: 1.0

Company: wagiminator

Sheet: 1/1

Date: 2019-06-22   Drawn By: Stefan Wagner

EasyEDA