

Battery charge voltage
 $V_{bat} = (1 + R18/R23) \cdot 2.1$
 $V_{bat} = (1 + 700/100) \cdot 2.1$
 $V_{bat} = 16.8V$ 4s pack

Switching frequency
 $f_s = 600kHz$

Output filter resonant frequency
 $L_{out} = 5.6\mu H$
 $C_{out} = 20\mu F$
 $f_0 = 1 / (2 \cdot \pi \cdot \sqrt{L_{out} \cdot C_{out}})$
 $f_0 = 15kHz$

103AT NTC thermistor
 $TCOLD = 0^\circ C$
 $TCUT_OFF = 46^\circ C$
 $R30 = 430 k\Omega$
 $R25 = 9.1 k\Omega$

Battery fast-charge current
 $I_{chg} = 6.3A$
 $R26 = 100k$
 $R31 = 62k$

Batteri pre-charge/term
 $I_{prec} = 0.3A$
 $R27 = 100k$
 $R32 = 10k$

Adapter regulation current
 $I_{adapter} = 7.8A$

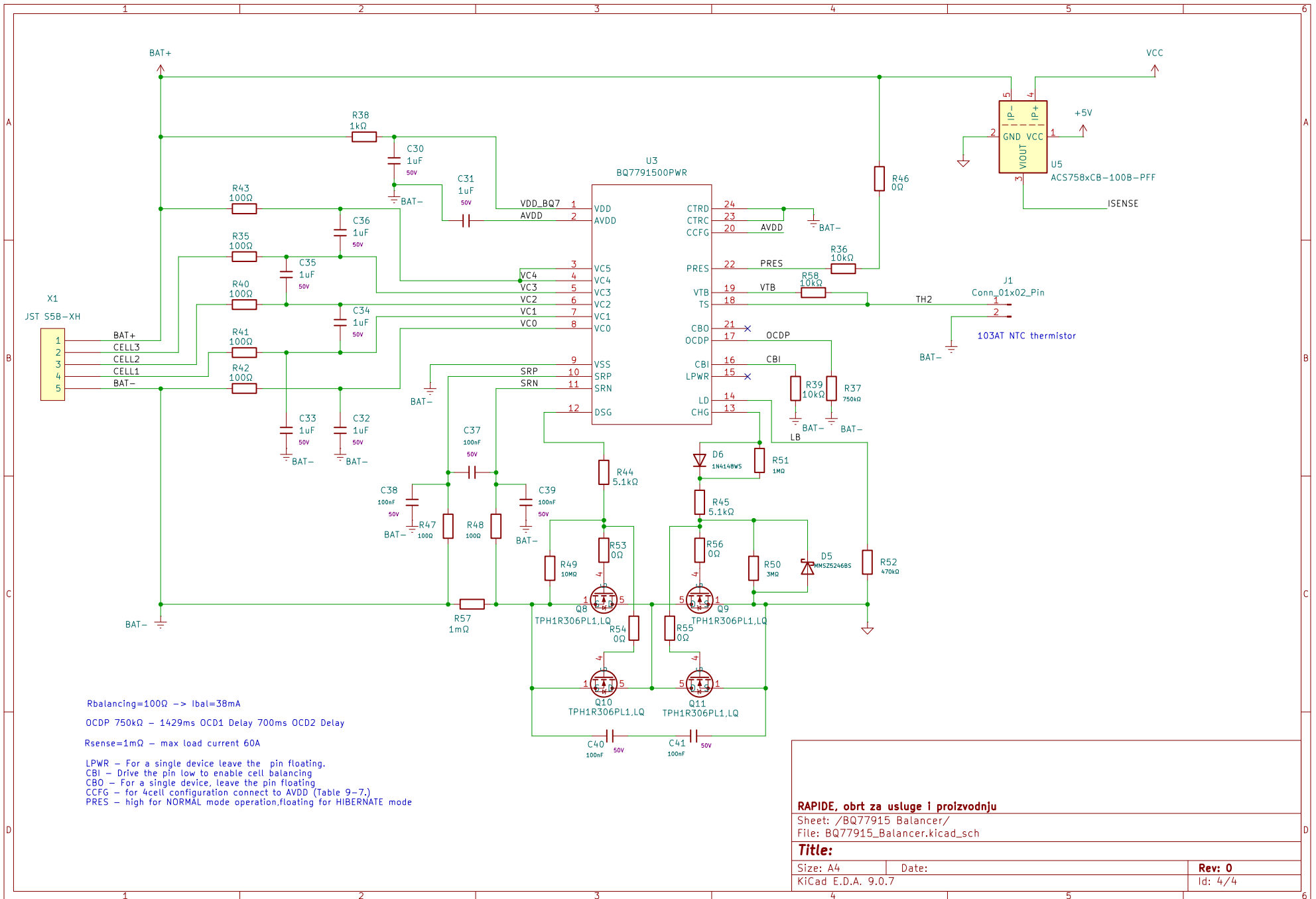
RAPIDE, obrt za usluge i proizvodnju

Sheet: /BQ24610 Charger/
 File: BQ24610_Charger.kicad_sch

Title: BQ24610 Charger

Size: A4 Date: 2026-02-10
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Rbalancing=100Ω -> Ibal=38mA

OCPD 750kΩ - 1429ms OCD1 Delay 700ms OCD2 Delay

Rsense=1mΩ - max load current 60A

LPWR - For a single device leave the pin floating.

CBI - Drive the pin low to enable cell balancing

CBO - For a single device, leave the pin floating

CCFG - for 4cell configuration connect to AVDD (Table 9-7.)

PRES - high for NORMAL mode operation, floating for HIBERNATE mode

RAPIDE, obrt za usluge i proizvodnju

Sheet: /BQ77915 Balancer/
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