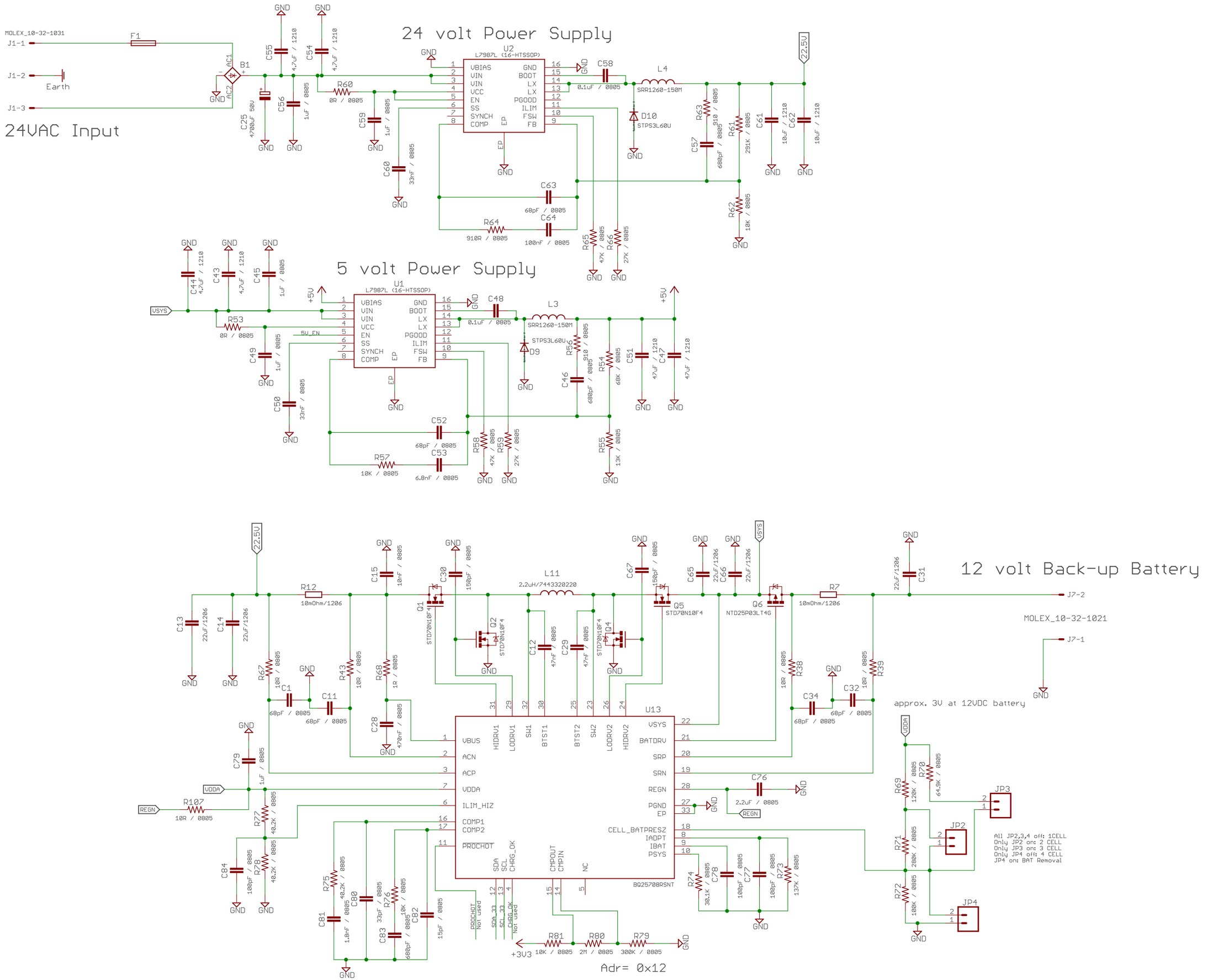
24 volt Power Supply
24VAC Input
MOLEX_10-32-1031
J1-1
J1-2
J1-3
Earth
F1
B1
AC1
AC2
C25
4700uF 50V
C55
C54
C56
4.7uF / 1210
1uF / 0805
R60
0R / 0805
C59
1uF / 0805
C60
33nF / 0805
U2
L7987L (16-HTSSOP)
VBIAS
VIN
VIN
VCC
EN
SS
SYNCH
COMP
GND
BOOT
LX
LX
PGOOD
ILIM
FSW
FB
EP
C58
0.1uF / 0805
L4
SRR1260-150M
D10
STPS3L60U
22.5V
R63
910 / 0805
R61
291K / 0805
C61
10uF / 1210
C62
10uF / 1210
C57
680pF / 0805
R62
10K / 0805
C63
68pF / 0805
C64
100nF / 0805
R64
910R / 0805
R65
47K / 0805
R66
27K / 0805
5 volt Power Supply
U1
L7987L (16-HTSSOP)
VSYS
+5V
C44
4.7uF / 1210
C43
4.7uF / 1210
C45
1uF / 0805
R53
0R / 0805
5V_EN
C49
1uF / 0805
C50
33nF / 0805
C48
0.1uF / 0805
L3
SRR1260-150M
STPS3L60U
D9
R56
910 / 0805
C46
680pF / 0805
R54
68K / 0805
C51
47uF / 1210
C47
47uF / 1210
C52
68pF / 0805
C53
6.8nF / 0805
R57
10K / 0805
R58
47K / 0805
R59
27K / 0805
R55
13K / 0805
12 volt Back-up Battery
R12
10mOhm/1206
C15
10nF / 0805
C30
150pF / 0805
L11
2.2uH/7443320220
C67
150pF / 0805
C65
22uF/1206
C66
22uF/1206
R7
10mOhm/1206
C31
22uF/1206
J7-2
J7-1
MOLEX_10-32-1021
Q1
STD70N10F4
Q2
STD70N10F4
Q4
STD70N10F4
Q5
STD70N10F4
Q6
NTD25P03LT4G
C12
47nF / 0805
C29
47nF / 0805
C13
22uF/1206
C14
22uF/1206
R67
10R / 0805
R43
10R / 0805
R68
1R / 0805
C1
68pF / 0805
C11
68pF / 0805
C28
470nF / 0805
R38
10R / 0805
R39
10R / 0805
C34
68pF / 0805
C32
68pF / 0805
approx. 3V at 12VDC battery
U13
BQ25708RSNT
VBUS
ACN
ACP
VDDA
ILIM_HIZ
COMP1
COMP2
PROCHOT
HIDRV1
LODRV1
SW1
BTST1
BTST2
SW2
LODRV2
HIDRV2
VSYS
BATDRV
SRP
SRN
REGN
PGND
EP
CELL_BATPRESZ
IADPT
IBAT
PSYS
SDA
SCL
CHRG_OK
CMPOUT
CMPIN
NC
C79
1uF / 0805
R107
10R / 0805
R77
40.2K / 0805
R78
40.2K / 0805
C84
100pF / 0805
R75
40.2K / 0805
C80
33pF / 0805
C81
1.8nF / 0805
R76
10K / 0805
C83
680pF / 0805
C82
15pF / 0805
PROCHOT Not used
SDA_33
SCL_33
CHRG_OK Not used
R81
10K / 0805
R80
2M / 0805
R79
300K / 0805
+3V3
Adr= 0x12
C76
2.2uF / 0805
R74
30.1K / 0805
C78
100pF / 0805
C77
100pF / 0805
R73
137K / 0805
R69
120K / 0805
R70
64.9K / 0805
R71
280K / 0805
R72
100K / 0805
JP3
JP2
JP4
All JP2,3,4 off: 1CELL
Only JP2 on: 2 CELL
Only JP3 on: 3 CELL
Only JP4 off: 4 CELL
JP4 on: BAT Removal