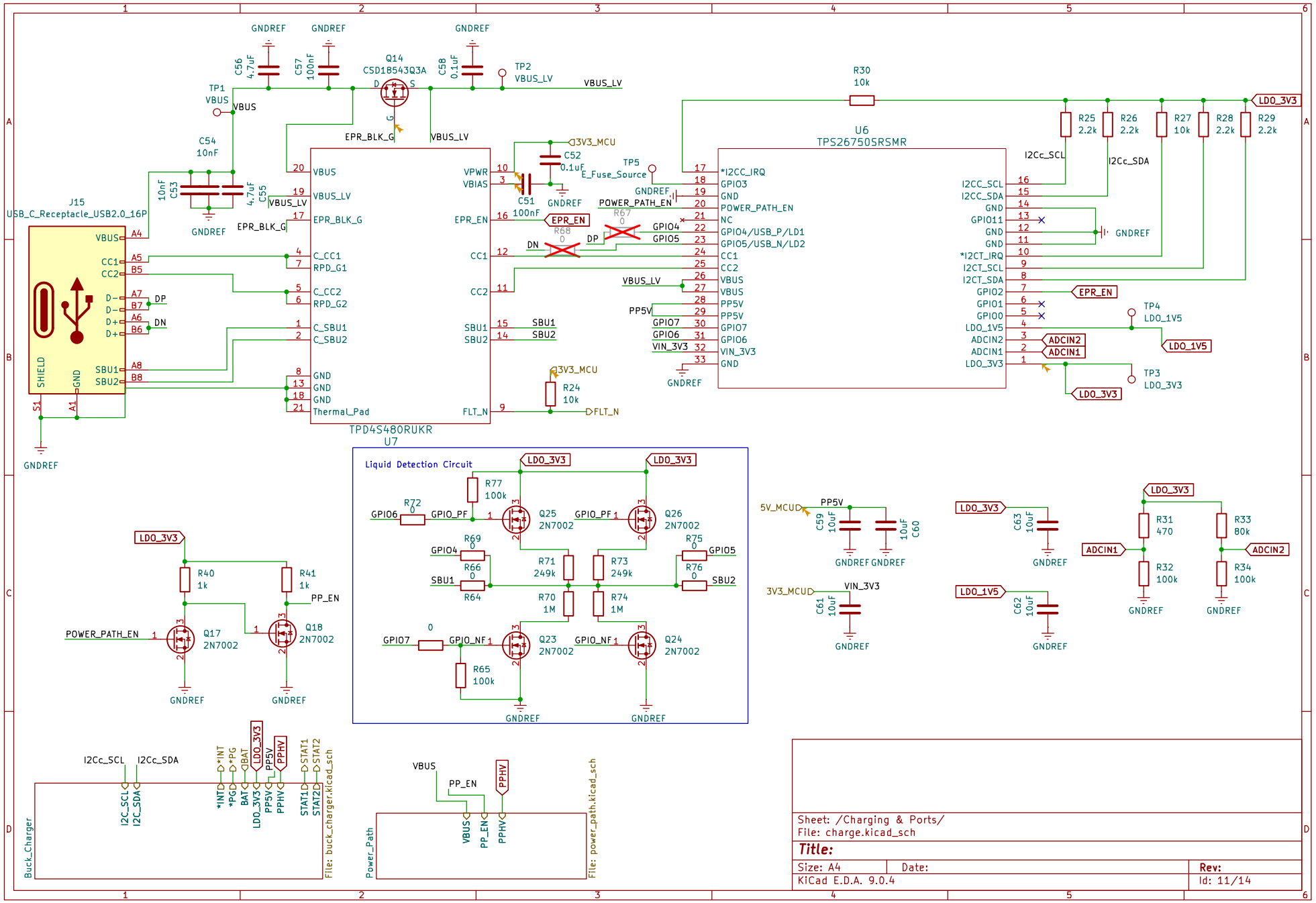
GNDREF
C56 4.7uF
C57 100nF
C58 0.1uF
Q14 CSD18543Q3A
TP2 VBUS_LV
TP1 VBUS
C54 10nF
C53 10nF
C55 4.7uF
J15 USB_C_Receptacle_USB2.0_16P
VBUS
CC1
CC2
D-
D+
SHIELD
GND
SBU1
SBU2
S1
A1
DP
DN
EPR_BLK_G
VBUS_LV
TPD4S480RUKR
U7
C_CC1
RPD_G1
C_CC2
RPD_G2
C_SBU1
C_SBU2
Thermal_Pad
3V3_MCU
C52 0.1uF
C51 100nF
R24 10k
FLT_N
TP5 E_Fuse_Source
R67 0
R68 0
EPR_EN
POWER_PATH_EN
R30 10k
U6 TPS26750SRSMR
*I2CC_IRQ
GPIO3
POWER_PATH_EN
NC
GPIO4/USB_P/LD1
GPIO5/USB_N/LD2
PP5V
GPIO7
GPIO6
VIN_3V3
I2CC_SCL
I2CC_SDA
*I2CT_IRQ
I2CT_SCL
I2CT_SDA
GPIO2
GPIO1
GPIO0
LDO_1V5
ADCIN2
ADCIN1
LDO_3V3
R25 2.2k
R26 2.2k
R27 10k
R28 2.2k
R29 2.2k
TP4 LDO_1V5
TP3 LDO_3V3
Liquid Detection Circuit
R77 100k
R72 0
GPIO_PF
Q25 2N7002
Q26 2N7002
R69 0
R66 0
R64
R71 249k
R73 249k
R75 0
R76 0
R70 1M
R74 1M
R65 100k
GPIO_NF
Q23 2N7002
Q24 2N7002
R40 1k
R41 1k
PP_EN
Q17 2N7002
Q18 2N7002
5V_MCU
C59 10uF
C60 10uF
C61 10uF
C62 10uF
C63 10uF
R31 470
R32 100k
R33 80k
R34 100k
Buck_Charger
File: buck_charger.kicad_sch
Power_Path
File: power_path.kicad_sch
Sheet: /Charging & Ports/
File: charge.kicad_sch
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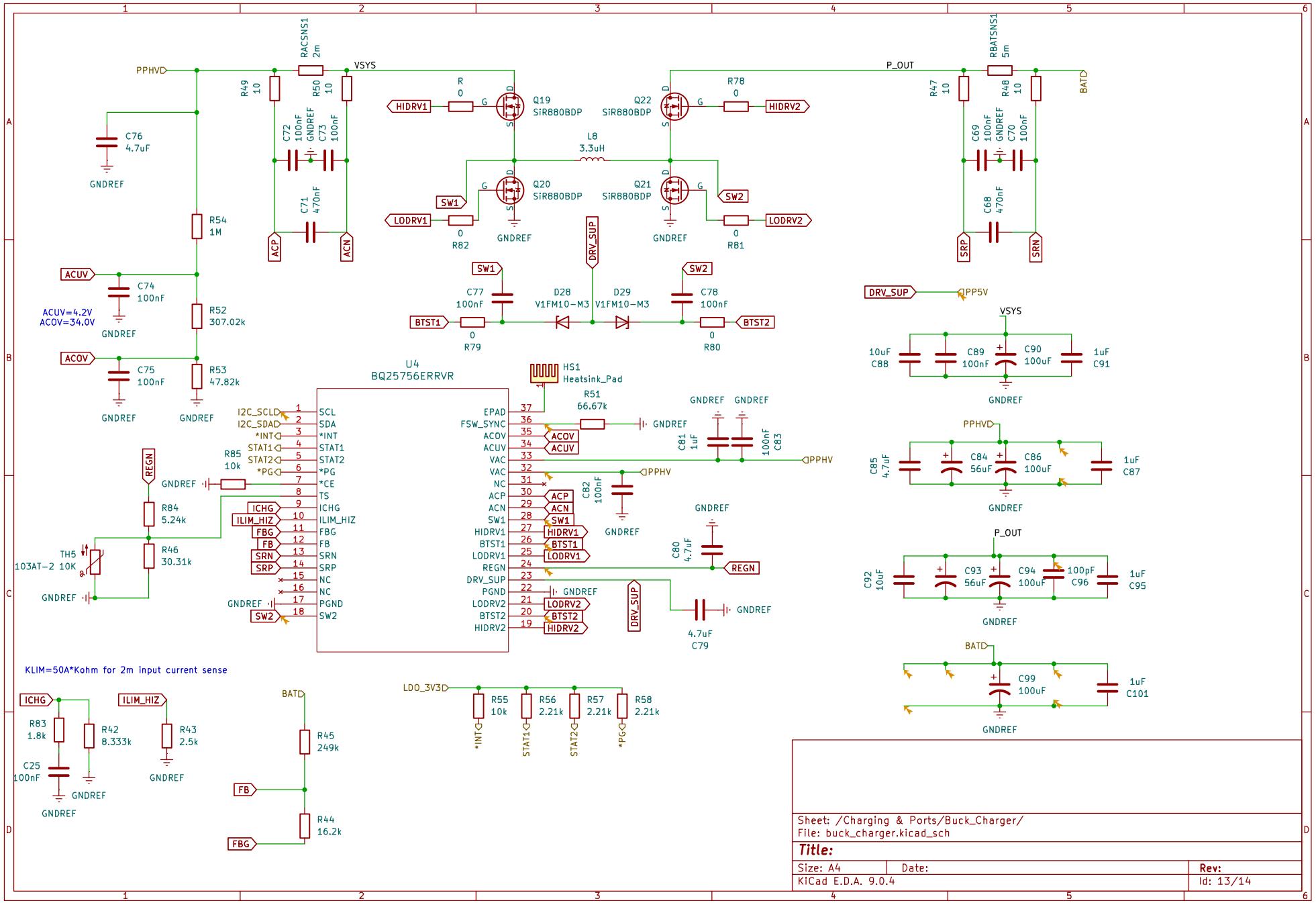
RACSNS1
2m
PPHV
VSYS
R49
10
R50
10
C72
100nF
GNDREF
C73
100nF
C71
470nF
ACP
ACN
C76
4.7uF
GNDREF
R54
1M
ACUV
C74
100nF
ACUV=4.2V
ACOV=34.0V
R52
307.02k
ACOV
C75
100nF
R53
47.82k
HIDRV1
R
0
Q19
SiR880BDP
Q22
SiR880BDP
R78
0
HIDRV2
L8
3.3uH
SW1
LODRV1
Q20
SiR880BDP
Q21
SiR880BDP
SW2
LODRV2
0
R82
0
R81
DRV_SUP
C77
100nF
D28
V1FM10-M3
D29
V1FM10-M3
C78
100nF
BTST1
BTST2
0
R79
0
R80
P_OUT
RBATSNS1
5m
R47
10
R48
10
BATD
C69
100nF
C70
100nF
C68
470nF
SRP
SRN
DRV_SUP
PP5V
VSYS
10uF
C88
C89
100nF
C90
100uF
1uF
C91
GNDREF
PPHV
C85
4.7uF
C84
56uF
C86
100uF
1uF
C87
P_OUT
C92
10uF
C93
56uF
C94
100uF
100pF
C96
1uF
C95
BATD
C99
100uF
1uF
C101
U4
BQ25756ERRVR
HS1
Heatsink_Pad
R51
66.67k
REGN
R84
5.24k
R46
30.31k
TH5
103AT-2 10K
R85
10k
I2C_SCL
I2C_SDA
*INT
STAT1
STAT2
*PG
*CE
TS
ICHG
ILIM_HIZ
FBG
FB
SRN
SRP
NC
NC
PGND
SW2
SCL
SDA
*INT
STAT1
STAT2
*PG
*CE
TS
ICHG
ILIM_HIZ
FBG
FB
SRN
SRP
NC
NC
PGND
SW2
EPAD
FSW_SYNC
ACOV
ACUV
VAC
VAC
NC
ACP
ACN
SW1
HIDRV1
BTST1
LODRV1
REGN
DRV_SUP
PGND
LODRV2
BTST2
HIDRV2
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
C81
1uF
C83
100nF
C82
100nF
C80
4.7uF
4.7uF
C79
KLIM=50A*Kohm for 2m input current sense
ICHG
ILIM_HIZ
R83
1.8k
R42
8.333k
R43
2.5k
C25
100nF
BAT
R45
249k
FB
R44
16.2k
FBG
LDO_3V3
R55
10k
R56
2.21k
R57
2.21k
R58
2.21k
*INT
STAT1
STAT2
*PG
Sheet: /Charging & Ports/Buck_Charger/
File: buck_charger.kicad_sch
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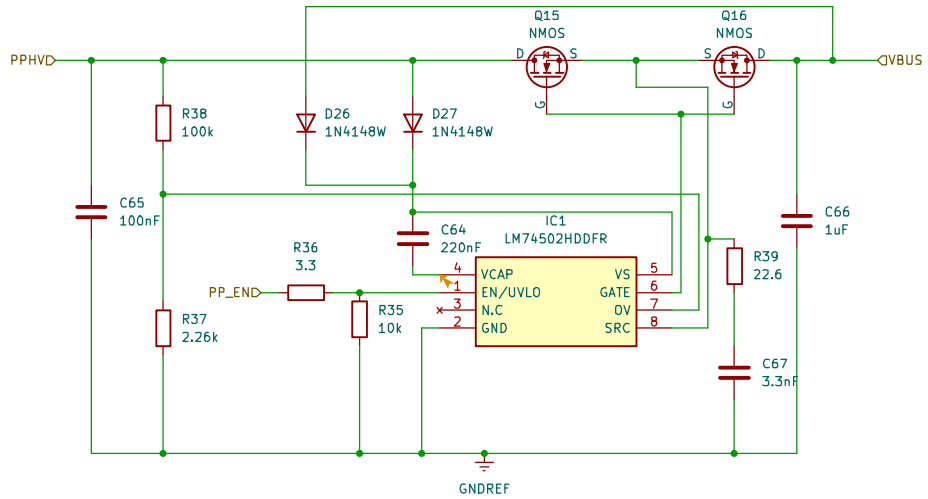

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Size: A4	Date:	**Rev:**
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