SOLAR+

SOLAR−

C1
10uF 35V

C2
10uF 35V

C3
0.1uF 50V

R9
100K 1%

R11
1K

D4
LED

GND

V+

Q2
FDS6675BZ

L1
47 uH SRR1260

D3
SS54 (40V 5A)

GND

C4
0.1uF 50V

U1
CN3801

9 VCC   VG 1
          DRV 10
          CSP 8
          BAT 7
3 −CHARGE− COM 5
4 −DONE−   GND 2
6 −MPPT−

R16
0.24 1%

IMAX_THT
DNP

IMAX_SMT
DNP

BAT

J1
Conn_01x02_Socket
GND

R10
39K 1%

MPPT_THT
DNP

MPPT_SMT
DNP

GND

GND

D1
BAT54A

−OVERTEMP−

−UNDERTEMP−

R12
39K

D2
BZT52C3V9 3.9V

Q5
MMUN2211LT1G

GND

R15
120

C6
.22uF

C7
22uF

C8
22uF

C9
22uF

R18
680K

BAT

BAT_POS   BPOS1

C13
0.1uF

GND

GND

GND

GND

GND

BAT_NEG   BNEG1

GND

SSM3J332R
Q4

V+

R1
39K 1%

R3
8.2K 1%

R6
8.2K

R7
100K 1%

U1B
LM2903

R14
8.2K

SSM3J332R
Q1

C11
0.1uF 50V

GND

V+

8 V+
U1C
LM2903
4 V−

GND

U1A
LM2903

R5
680K 1%

R13
200K 1%

R8
8.2K 1%

Q3
SSM3J332R

F2
0ZCG0110CF2B

LOAD+

U3
TCM810

VDD
RESET
GND

GND

C10
0.1uF 50V

GND

LOAD−

R2
NTC 10K 1%

R4
8.2K 1%

THRM
DNP

GND

GND

GND

R19
1K

F1
0ZCG0110CF2B

HEAT
LED

C12
0.1uF 50V

HEATER+

HEATER−

GND

GND