

22MA
ADC5
0V
ADC4
22MA

22MA
ADC1
0V
ADC0
22MA

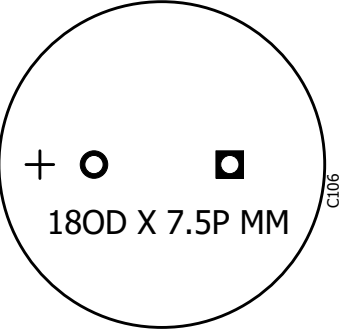
+5V
0V
BOOST
INPUT
BOOST

K1
K2
K3
K4
COM
COM
K5
K6
K7

NC
0V
A7
A6
A5
A4
A3
A2
A1
A0

UIN
0V
0V
5V
NC
RESET
IOREF
5V
NC

LATCHING
SOLENOIDS



J20
JMP NONE: 9V
JMP 1-2: 24V
JMP 2-3: 12V



GND
MOSI
5V
RESET
SCK
MISO

UIN

ICP3
INT2
RX0
TX0
INT0/RX1
INT1/TX1
T0
OC0B
OC0A
ICP1
PL
0V

OC2B/ICP1
OC1A
OC1B
OC2A
OC2B
OC3B
0V
NC
C1
C0
SDA
SCL

R23
LT3652 /U R23 8
10K B-3360 THERMISTOR
0EC < CHR6 < 40EC

POWER MCU AT 13.1V
DISCONNECT AT 11.58V

12V SLA

36 CELL
STRING

13.278V:50.7k@40°C
13.63V:100k@25°C
14.068V:357k@0°C

MPP IDEAL:ACTUAL
13.8:14.5V-15.2k@70°C
15.8:15.7V-50.7k@40°C
17:16.8V-100k@25°C
19:18.7V-357k@0°C

BATTERY



SOLAR

JMP 1-2:
CONNECT BAT
JMP 2-3:
FORCE UIN

-BAT

+BAT

B=4250
100K

B=4250
100K

0V

+PV