

22MA  
ADC5  
0V  
ADC4  
22MA

22MA  
ADC1  
0V  
ADC0  
22MA

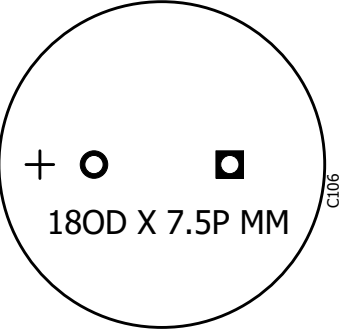
+5V  
0V  
BOOST  
INPUT  
BOOST

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

RPUBUS.ORG  
14320^2  
IRRIGATE7