

# LCD Remote Display Connection & Operation

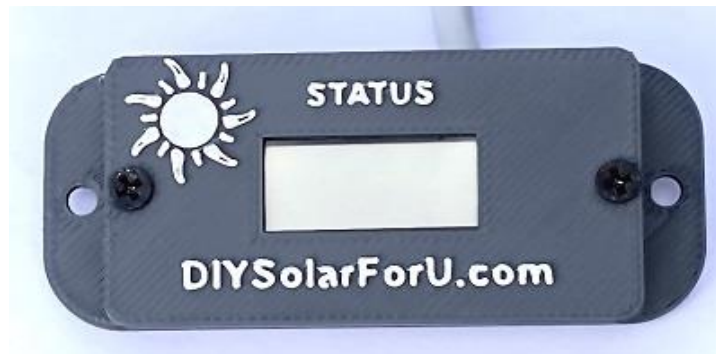
## Connection Instructions

Connect RED Wire to Battery Positive (+)  
Connect BLACK Wire to Battery Negative (-)  
Connect GREEN Wire to DATA Terminal Block either side located next to the larger Black Battery Terminal Block.

Best to connect Red and Black by stripping back about an inch and wrapping the small wire around the heavier gauge battery wires, insert them in main terminal block, then tighten main terminal block.. This will ensure a good connection.

Solid #12 THHN wire for battery is best and easiest to connect. If using stranded then twist strands tight prior to insertion and open fully the terminal block plate with 4 turns on the screw counter-clockwise.

DATA cable can be inserted in the same hole as the battery cable.



## LCD Display Information

The LCD Display will show the same information as the charge controller after 5 seconds of power on. Initial display or loss of data connection will show 3 dashes "- - -".

The Display works with 12 or 24 volt battery systems and draws only 100uA average current (0.00001 amps).

**WARRANTY:** DIY Solar warranties the charge controller against defects in materials or workmanship for a period of TWO YEARS from the date of purchase. DIY Solar's only remedy is to repair or replace at our discretion a defective product. User must obtain an RMA by contacting us at: [diysolarforu@gmail.com](mailto:diysolarforu@gmail.com). User assumes all risks associated with the use of this product and agrees to hold harmless DIY Solar for U. It's up to the user to properly install and use the product with safety over current fuse or circuit breaker. This Warranty does NOT cover misuse, neglect, or accidental damage of any kind.

## Daytime Charge Display Sequence

P A N	Solar Input Voltage
b A t	Battery Voltage
A	Output Current in Amps
O u t	Output Power in Watts
P - P	Peak Power in Watts
A - H	Amp Hours Today
b - t	Board Temperature Deg. F
b 1 2	Battery Detected
b 2 4	

# LCD Display Information

Night display sequence /  
Battery > 13.45 / 26.9 Volts

Battery Full Sequence

Panel Voltage

Battery Voltage

All Time Peak  
Power

Battery Charged  
Voltage

Amp Hours  
Today

Amp Hours  
Today

Amp Hours  
2 Days Ago

Amp Hours  
3 Days Ago

Amp Hours  
4 Days Ago

Over Temperature  
Shutdown — Flashing

Amp Hours  
5 Days Ago

Error Code

Amp Hours  
6 Days Ago

Amp Hours  
7 Days Ago

Battery Wake-up or  
No Battery detected

Error Codes:

001 = Solar Panel Voltage too high

002 = Temperature Sensing Error out of range

003 = Current Sensing Amplifier Error

Hot Flashing indicates thermal shutdown due to excessive heat (Charger OFF)