# Battery Voltage Calibration SOP

## Prepare:

- **Communication Tool download**
- **RS232-USB cable**
- **PC**
- **Inverter**
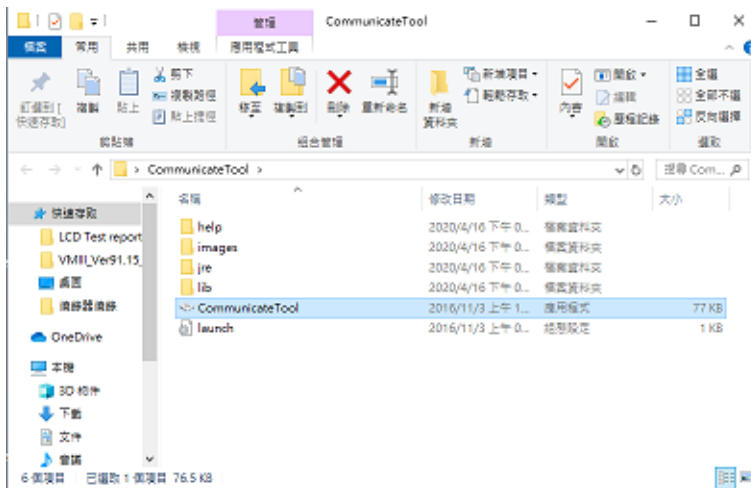
## Calibrate the battery voltage:

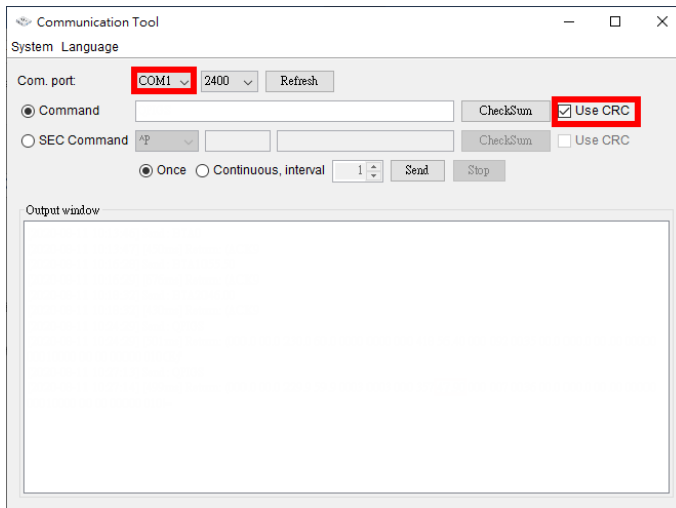1. Connect the power supply (55.5V/5A) to Inverter's battery positive and negative connectors.



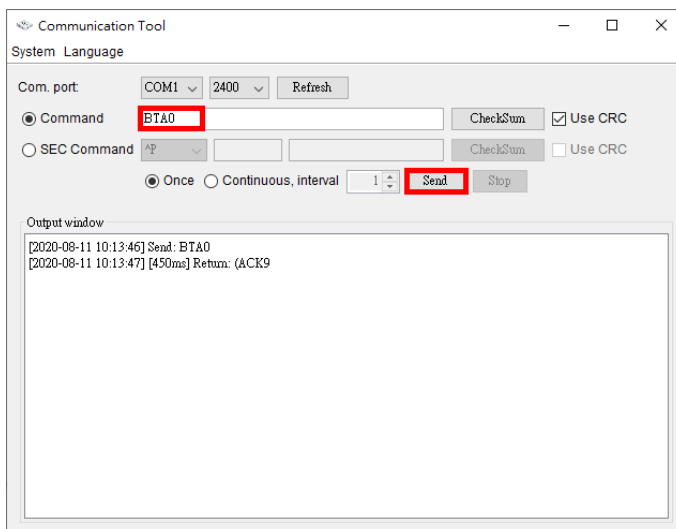2. Turn on the Inverter which will working in battery mode.



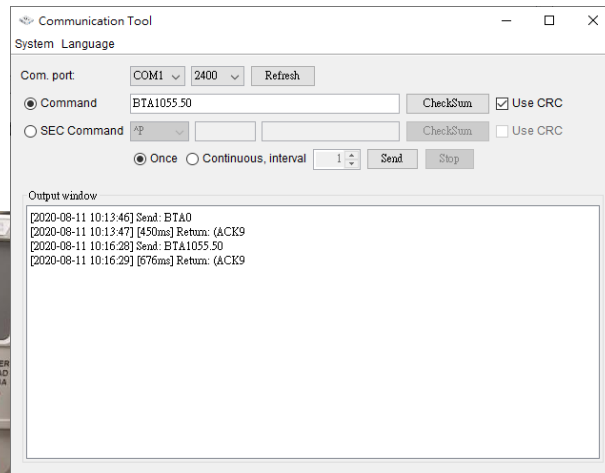3. Double click "CommunicateTool" to start communication tool.

4. Connect RS232 to USB cable. The window appears COM port and click "use CRC" as below.
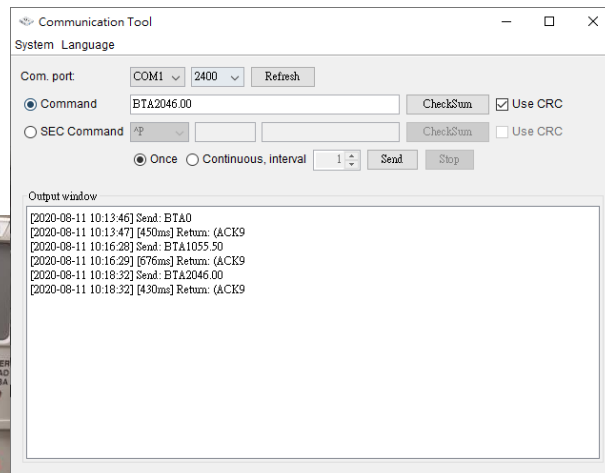

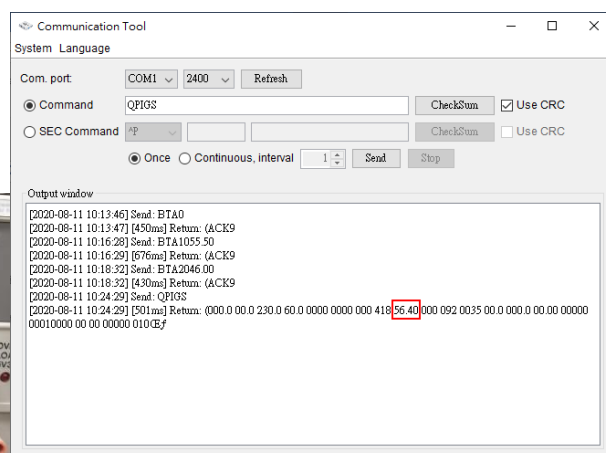
5. Send command "BTA0", the Inverter returns (ACK.



6. Adjust the power supply to 55.5V and send command "BTA1055.50", the Inverter returns (ACK.

7. Adjust the power supply to 46V and send command "BTA2046.00", the Inverter returns (ACK.



8. Change Power supply's voltage. Send command "QPIGS", compare the return's value and actual battery's voltage are equal.

Communication Tool

System  Language

Com. port:  COM1 ▾  2400 ▾  Refresh

● Command  QPIGS  CheckSum  ☑ Use CRC

○ SEC Command  ^P  CheckSum  ☐ Use CRC

● Once  ○ Continuous, interval  1 ▴▾  Send  Stop

Output window

[2020-08-11 10:13:46] Send: BTA0
[2020-08-11 10:13:47] [450ms] Return: (ACK9
[2020-08-11 10:16:28] Send: BTA1055.50
[2020-08-11 10:16:29] [676ms] Return: (ACK9
[2020-08-11 10:18:32] Send: BTA2046.00
[2020-08-11 10:18:32] [430ms] Return: (ACK9
[2020-08-11 10:24:29] Send: QPIGS
[2020-08-11 10:24:29] [501ms] Return: (000.0 00.0 230.0 60.0 0000 0000 000 418 56.40 000 092 0035 00.0 000.0 00.00 00000 00010000 00 00 00000 010Œƒ
[2020-08-11 10:27:13] Send: QPIGS
[2020-08-11 10:27:14] [499ms] Return: (000.0 00.0 229.9 59.9 0003 0003 000 357 47.90 000 007 0036 00.0 000.0 00.00 00000 00010000 00 00 00000 010⊨