

# Application Note: CANalyst II for Sol-Ark L3 Series Batteries

## Introduction

CANalyst software can help you identify battery faults and find the root cause of any L3 battery failure. The following instructions show how to:

- Connect the CANalyst-II programming kit to your Sol-Ark L3 Series HV batteries
- Install the upper computer software

## Scope

This application note applies to these battery models:

- L3 HVR-60
- L3 HV-40
- L3 HV-60

## Required Materials

Quantity	Item
1	CANalyst-II USB to CAN Analyzer
1	RJ45 cable
1	PC

## Work Instructions

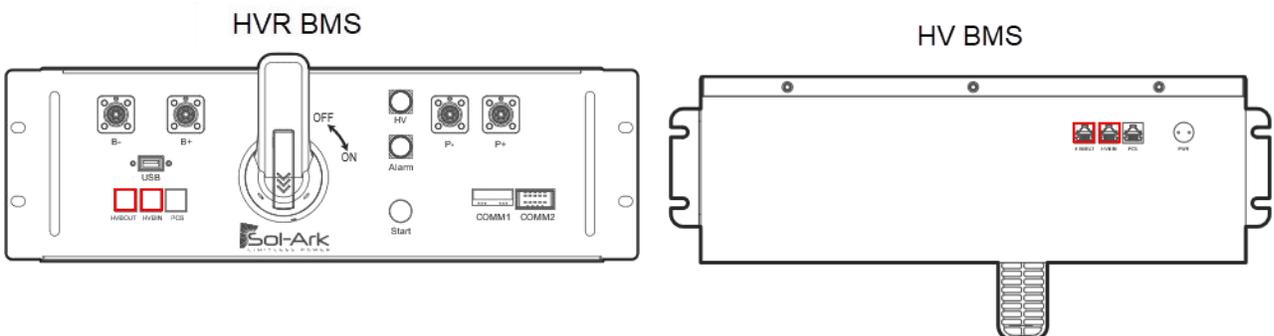
- 1a. Locate the CANL and CANH wires in the RJ45 cable.

No.	Out Port Pin	In Port Pin
1	CANL	CANL
2	CANH	CANH
3	DO+	DI+
4	DO-	DI-
5	DO-	DI-
6	DO+	DI+
7	CANH	CANH
8	CANL	CANL

- 1b. Connect the wires to their corresponding terminals on the CAN box.



2. Insert the RJ45 connector into the BMS, either the IN or OUT port.

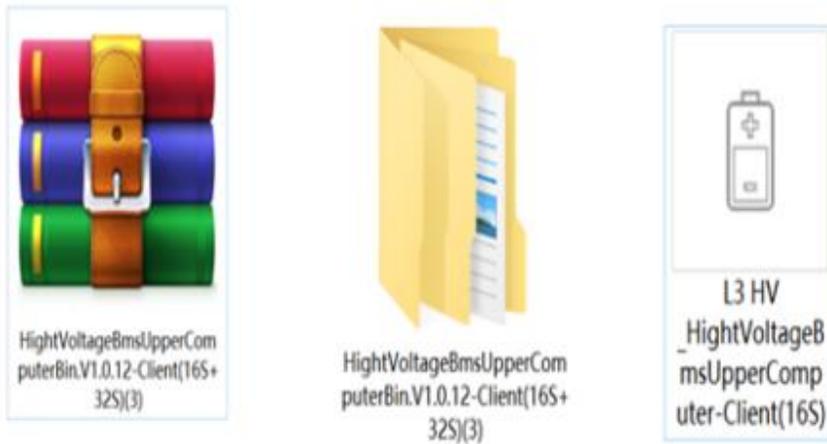


3. Insert the PC USB interface after connecting the harness.

4. Install the driver from CAN BOX packet

Name	Date modified	Type	Size
UpperComputer Software	2/2/2025 10:14 PM	File folder	
USB drive set up (V1.40).exe	2/2/2025 10:13 PM	Application	14,935 KB

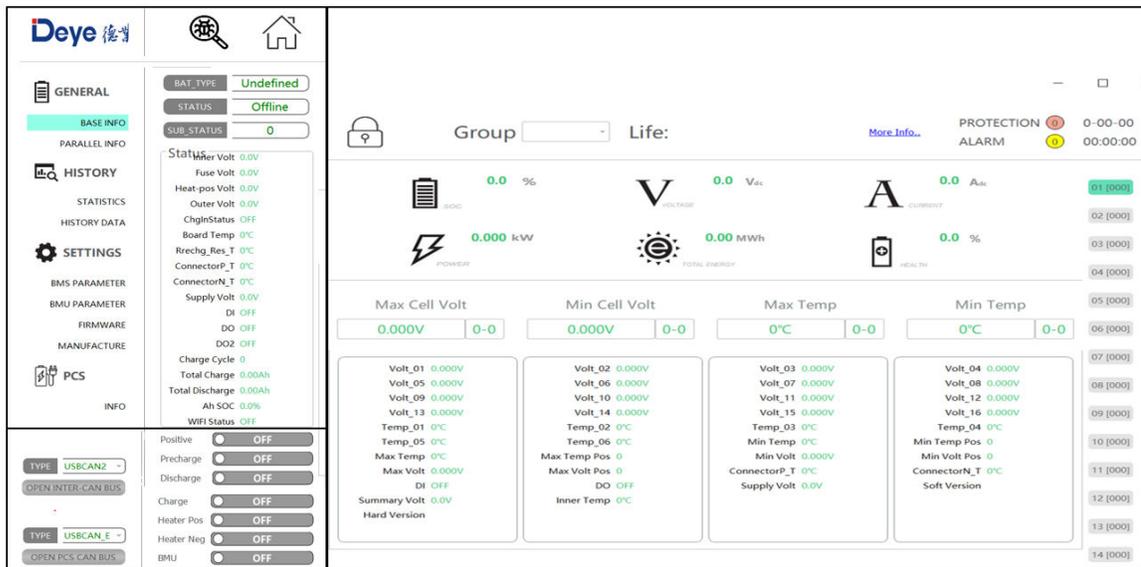
5. Install the Upper Computer Software.



Name	Date modified	Type	Size
bearer	2/2/2025 10:14 PM	File folder	
dump	2/2/2025 10:14 PM	File folder	
iconengines	2/2/2025 10:14 PM	File folder	
imageformats	2/2/2025 10:14 PM	File folder	
imgs	2/2/2025 10:14 PM	File folder	
kerneldlls	2/2/2025 10:14 PM	File folder	
platforms	2/2/2025 10:14 PM	File folder	
RunData	2/2/2025 10:14 PM	File folder	
setting	2/2/2025 10:14 PM	File folder	
translations	2/2/2025 10:14 PM	File folder	
clear.cmd	2/2/2025 10:14 PM	Windows Command ...	1 KB
config.txt	2/2/2025 10:14 PM	Text Document	1 KB
ControlCAN.dll	2/2/2025 10:14 PM	Application extension	230 KB
ControlCAN.lib	2/2/2025 10:14 PM	LIB File	6 KB
D3Dcompiler_47.dll	2/2/2025 10:14 PM	Application extension	3,386 KB
HightVoltageBmsUpperComputer-16S.exe	2/2/2025 10:14 PM	Application	50,837 KB
HightVoltageBmsUpperComputer-32S.exe	2/2/2025 10:14 PM	Application	50,837 KB
libEGL.dll	2/2/2025 10:14 PM	Application extension	28 KB
libgcc_s_dw2-1.dll	2/2/2025 10:14 PM	Application extension	118 KB
libGLESV2.dll	2/2/2025 10:14 PM	Application extension	2,748 KB

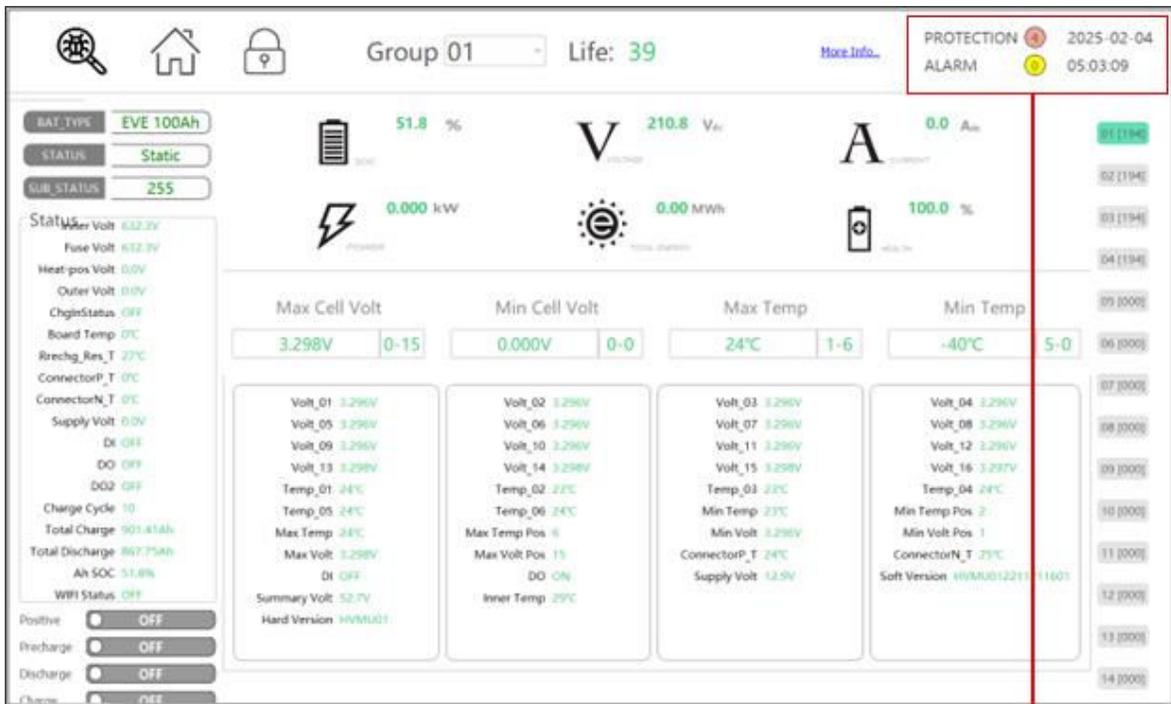
! Be sure to use **-16S.exe** (not 32S.exe).

- Open the upper computer software, then click **Open INTER-CAN BUS** to read the BMS information.



- Select the **Manufacture** tab. On the **Operation** dropdown list, change **Factory Mode** to **Debug Mode**, then click **Set**.
- Review all BMS data for each module, then take a screenshot in case it's needed for technical support.

- Select the **Protection** indicator at the top right to pinpoint any potential faults. Send the errors to Sol-Ark Technical Support.



BAT ID: 01

System Error Level(L2 Error)  
 External Can Communication Fail(Error)  
 Temperature Sample Error(Error)

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Errors are shown here →

## Document Revision History

Rev.	Date	Author	Description of Changes
000	02/13/2025	Michael Iskandar	Document Created