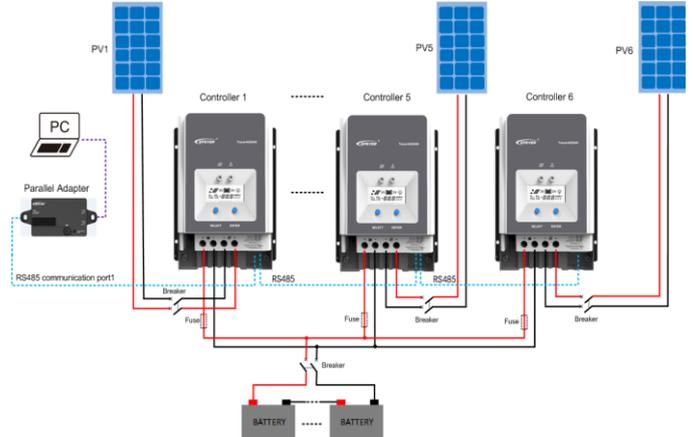


**④⑤ RS485 communication port 2/3 (RJ45)**

These two ports are paralleled.

**3.Product Application Connection Diagram**

**➤ Connection for Tracer AN (50-100A) series solar controller**



**NOTE:** Set each controller ID to be different before wiring (ID Range:1-10)

**4. Power Switch Control**

- The PAL-ADP-50AN will shut off one of the controllers while the battery voltage reaches the target voltage (equalize, boost, float), and the average current is lower than 3Amps.
- The PAL-ADP-50AN will turn on one of the controllers until the average current is higher than 5Amps.

**5. Charging Status Control**

- The PAL-ADP-50AN will check the controller charging status. While one of the controllers turn into float charging mode, the boost charging time of the rest controllers will change to 10 minutes.
- The controller is turning into float mode directly if the total of the boost charging time reaches 10 minutes; otherwise, it will wait until the target time of 10 minutes.

**IMPORTANT:** In addition to the above rules, the boost charging recovery time will be 120 minutes in default.

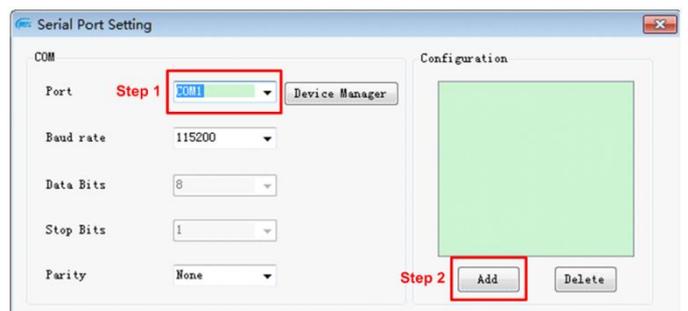
**6.PC Software Operation Instruction**

**Step1: Download the PC software and install the software**

Download address: <http://www.epever.com> >> SUPPORT >> SOFTWARE >> Charge Controller-windows.zip

**Step2: Set the “controller ID”**

- Port configuration >> Serial port setting



**Thank you for selecting the parallel adapter. Please read this manual carefully before using the product.**

**PAL-ADP-50AN**

**—Parallel Adapter**

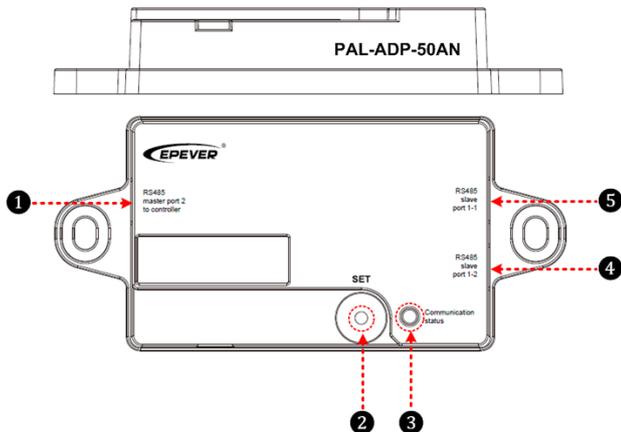
**1.Overview**

The PAL-ADP-50AN is a parallel adapter for adjusting the charging current of multiple controllers connected to the battery in parallel, which also monitors the charging and operational status in real-time. The adapter automatically changes the charging and operational status of the controllers according to the battery level to prolong the controller lifetime.

**Features :**

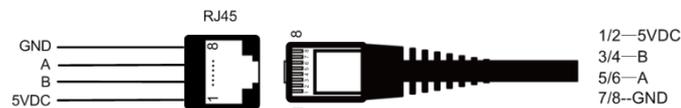
- Achieve the consistency of parameters for multiple controllers
- Equalize charging feature to smart control the charging current of each controller
- Monitor the working status and smart control the operation quantity of the controller
- Up to 6 controllers are supported
- Standard Modbus communication protocol and related PC Monitoring Software
- The 1-click setting for baud rate switch between 9600 and 115200
- LED indicator for operational status

**2.Structure**



**① RS485 communication port 1(RJ45)**

Communicate with up to 6 paralleled controllers.



**Accessories(included):**

Communication cable (Model: CC-RS485-RS485-200U)

**②SET button**

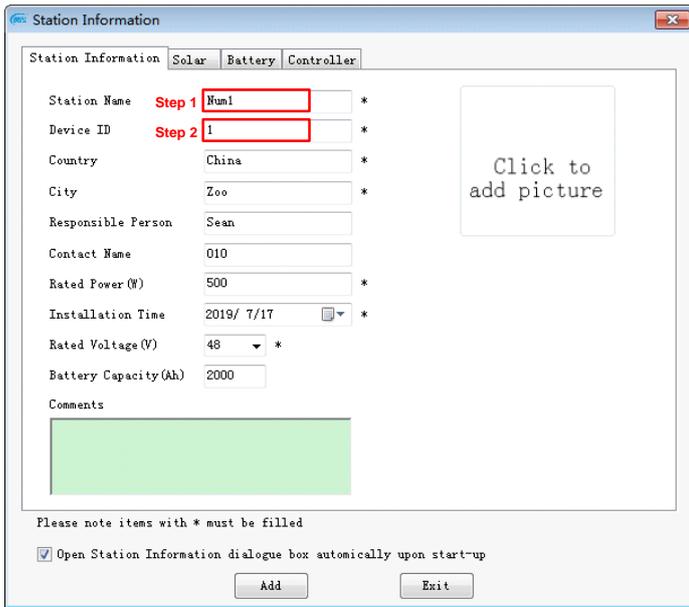
Press and hold the button for 5 seconds to set the communication baud rate

- 9600—— Red LED indicator flash 1 time
- 115200——Red LED indicator flash 2 times

**③Communication status indicator**

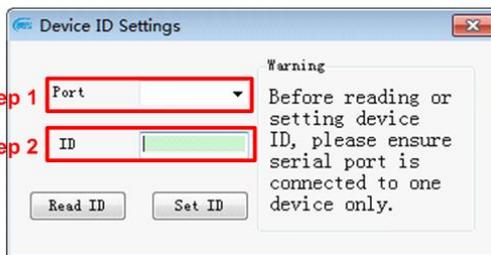
- Solid Green——Adapter is working.
- Flash Green——Adapter is communicating.
- Flash Red——Adapter's baud rate indictor.

- Add the station



 **Caution:** The controller ID and device ID should be the same.

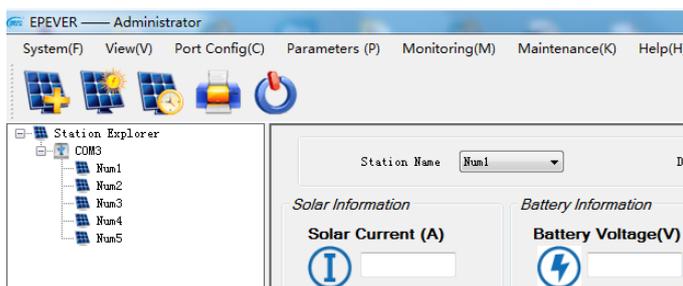
- Set the "Device ID"



 **Caution:** Only one of the controllers' ID can be set at each time. Follow the same procedure to set the rest of controllers.

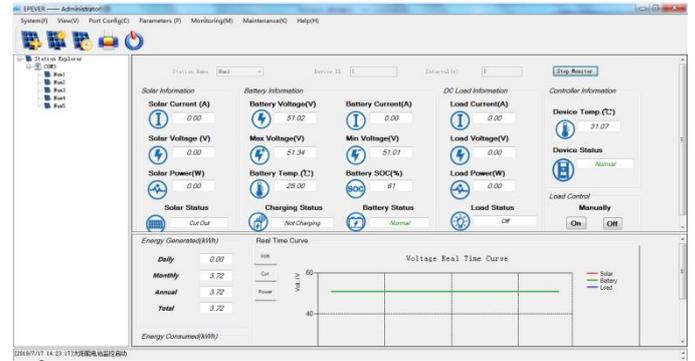
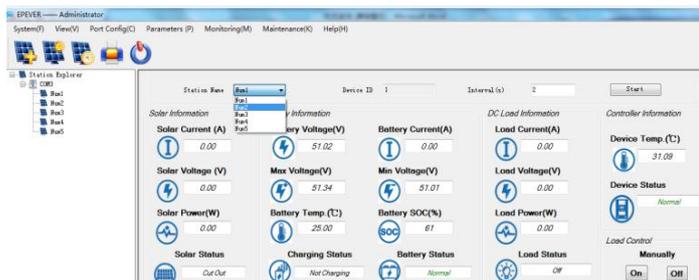
**Step3:** Connect all controllers with the communication cable

**Step4:** Add the rest of controllers' ID to the station (Refer to the step 2)



**Step5:** Monitor the operational data and status of each controller in real-time.

- Select the related controller >> start monitoring

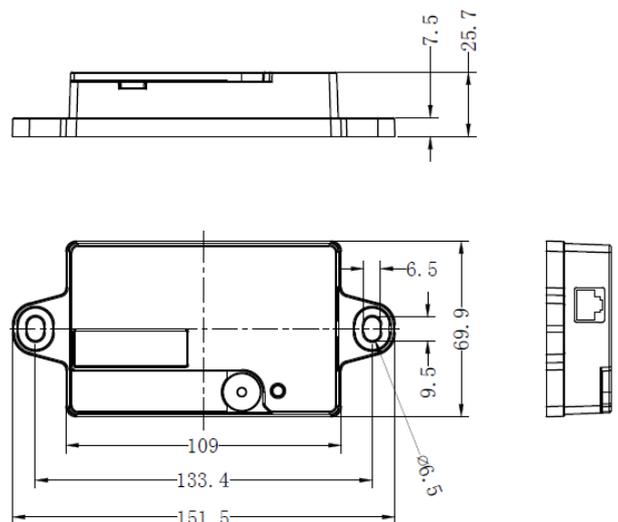


 **Caution:** Only one of the controllers is able to be monitored at each time.

## 7. Specifications

Model	PAL-ADP-50AN
Apply to model	Tracer AN (50-100A) series solar controller
Input voltage	5VDC (Directly provided by the controller)
Operation power consumption	0.25W
Serial port baud rate	9600 115200(Default)
Overall dimension	151.5*69.9*25.7mm
Mounting Dimension	133.4mm
Mounting hole size	Φ6.5
Working temperature	-35~55℃
Enclosure	IP30
Weight	30g

## 8. Mechanical Parameters



Any changes without prior notice! V2.1