

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

PAL-ADP-50AN

Parallel Adapter

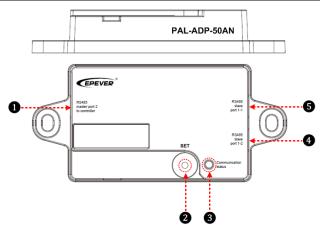
1.Overview

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:

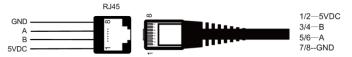
- Achieve the consistency of parameters for multiple controllers
- Equalize charging feature to smart control the charging current of each controller
- Monitor the working status and smart control the operation quantity of the controller
- Up to 6 controllers are supported
- Standard Modbus communication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

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

3 Communication status indicator

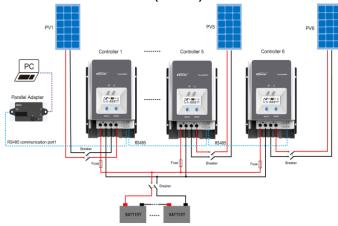
- · Solid Green—Adapter is working.
- · Flash Green-Adapter is communicating
- Flash Red——Adapter's baud rate indictor.

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

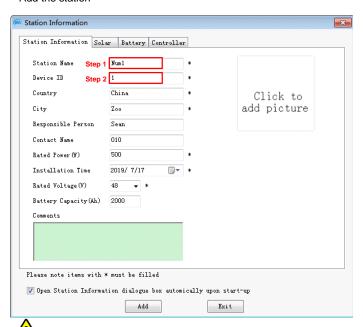
Download address: http://www.epever.com >> SUPPORT >> SOFTWARE >> Charge Controller-windows.zip

Step2: Set the "controller ID"

Port configuration >> Serial port setting

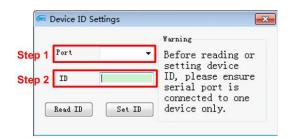


· Add the station



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

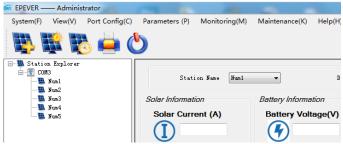
Set the "Device ID"



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





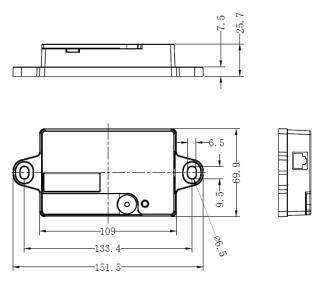
Caution: Only one of the controllers is able to be monitored at each time.

7.Specifications

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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	Ф6.5
Working temperature	-35∼55℃
Enclosure	IP30
Weight	30g

8. Mechanical Parameters



Any changes without prior notice! V2.1