User Manual

MPPTracker

Management Software for Solar Charge Controller

Version: 1.2

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1. MPPTracker Overview

1.1. Introduction

MPPTracker is a monitoring software which can monitor multiple solar charger controller via serial port at the same time. The major functions of MPPTracker monitoring software include data log for devices, alarm messages, fault messages, and parameter setting for devices.

1.2. Features

- Automatic and real-time data acquisition of devices and secured data log saving
- Graphic display of device data for quick and easy reading
- Warning notifications or fault alarms via mobile messenger, tray message and e-mail
- Easy diagnosis from event statistics
- Supports online upgrade and manually upgrade

2. MPPTracker Install and Uninstall

2.1. System Requirement

- 512 MB physical memory at least (1 GB is recommended)
- 2GB hard disk space at least
- Administrator authority is required
- More than 32-bit colors and 1280 x 800 or above resolution display is recommended
- An available communication port is needed
- Platforms supported by software are listed below:
 - Windows XP/2000/2003/Vista/2008 (32-bit & 64-bit)
 - Windows 7/8 (32-bit & 64-bit)
 - ➢ Windows SBS 2011

2.2. Software Install

Step 1 After clicking install, it will display the installation in process. Refer to the diagram 2-1.



Diagram 2-1

Step 2 Choose wanted language and click "OK" as diagram 2-2.



Diagram 2-2

Step 3 Click "Next" to proceed to the next screen as Diagram 2-3.



Diagram 2-3

Step 4 Click "Choose" button to change the default folder. After choosing the installed folder, click "Next" button. Refer to the following diagram 2-4.

📲 MPPTracker	
	Choose Install Folder
 Introduction Choose Install Folder Choose Shortcut Folder Pre-Installation Summary Installing 	Please choose a destination folder for this installation.
C maran Complete	Where Would You Like to Install?
	C:\MPPTracker
	Restore Default Folder Choose
Cancel	Previous

Diagram 2-4

Step 5 Choose the shortcut folder and click "Next" button. Refer to the following diagram 2-5.



Diagram 2-5

Step 6 It will display the software summary before installation. Click "Install" button

to start the installation and refer to Diagram 2-6.



Diagram 2-6

Step 7 Click "Done" button to confirm the installation completely. Refer to Diagram 2-7.



Diagram 2-7

Step 8 Click "Done" button to confirm the installation completely. Refer to Diagram 2-8.



Diagram 2-8

Note: Please uninstall the previous version before installing the new version software.

2.3. Software Uninstall

Please choose Start >> All Programs >> MPPTracker1.0 >> Uninstall. Then, follow the on-screen instruction to uninstall the software.

Note: Before uninstalling software, you must stop all software programs first and log in as "Administrator"! Otherwise, it can't be uninstalled completely.

3. Tray Application

3.1. Startup

The Installer will leave a shortcut icon called "MPPTracker" on your desktop. Refer to Diagram 3-1-1. Simply double click the shortcut icon. Then, it will start the software and display a service icon located in tray. It will pop up function menu by clicking right button of the mouse. Refer to below diagram 3-1-2.



Diagram 3-1-2

3.2. Configuration

3.2.1. Software Upgrades

Refer to Diagram 3-2-1 for the detailed configuration for online upgrade:

- Specify the URL for update files: This is the directory to online update software. Please do not change it unless it's instructed by software manufacturer.
- Save files to: The directory to save files in your hard drive.
- Online auto-update: If selected, it will automatically check if there is any new version launched online every 1 hour.
- If applying online upgrade, please follow below for configuration:
 - 1. Select "Apply the proxy configuration".
 - 2. Enter IP address and port of server.
 - 3. If ID identification is requested, select "Enable authentication" and enter User Name and Password.
- Connection test: Click this button to test if all configurations are set up well.

🕺 configuration		
Specify the URL for update files	-download.com/WatchPower/updatewindows.zip	
Save files to	C:\Program Files\WatchPower1.00\UpgradeFiles	Browse
Online auto-undate		
Apply the proxy configuration		
IP		
Pori		
Enable authentication		
User name		
Password		
Connection test		
		Apply Close

Diagram 3-2-1

3.2.2. Configuration Saved

Click "Apply" button to save all changes in Configuration page. Click "Cancel" to stop the change.

3.3. Software Upgrade

Software upgrades includes online upgrade and manually upgrade.

• Online Upgrade:

Click "Online Upgrade" to search the latest software version. If there is new version, it will automatically download and upgrade. Refer to Diagram 3-4.



Diagram 3-3-1

• Manually Upgrade:

Users can manually upgrade the software. Follow below steps: 1. Click "Manually Upgrade" from function menu. Refer to Diagram 3-5.





2. Click "Browse" to choose file directory. Then, click "Upgrade" to upgrade software. Refer to Diagram 3-3-3.

📕 Manually Update 🔤		🗙
Please select your file.	ia\My Documents\Storm\update.zip	Browse
	Prepare for upgrade	Upgrade

Diagram 3-3-3

3.4. SNMP Manager

SNMP Manager is a plugin utility for MPPTracker software. Users can search and operate all SNMP devices in the LAN via this interface. Then, MPPTracker will automatically search and monitor these SNMP devices. Please open "SNMP Manager" by clicking right button of the mouse on service icon. It has four sections as marked in the illustration below:

<mark>⊎\$) SNMP Manager</mark> System Settings Language Help A		- • 🛛
IP address MAC address 192.168.107.118 60-19-29-00-1C-BC	Basic Info IP settings Online upgrade System manager Static trap address IP address 192.168.107.118 MAC address 80-19-29-00-1C-BC	
В		
SNMP status: 1 Scan 192.168.107 Add Del	Output window [09:42:19] 192.168.107.118 Online successfully.	
	D	

A. Function menu offers complete tool-set for navigating and setting the GUI.

B. SNMP device list can list down all SNMP devices located in current IP address.

C. Configuration area includes IP settings, online upgrade, password management, and static trap address.

D. Output window displays all messages for operations

3.4.1. SNMP Device List

The default value in window list would be current PC IP address. For example, if IP address of current PC is "192.168.102.10", it will display "192.168.102" in list when first enabling SNMP Manager.

• Scan

You may enter specific IP address and then click "Scan" button to search.

• Add

Click "Add" button and it will pop up a window to ask for entering specific IP address. Then, click "Apply" button to add IP address (Subnet). Refer to Diagram 3-4-1.

🗊 SNMP Manager			
System Settings Language Hel	lp		
IP address 192.168.107.118	MAC address 60-19-29-00-1C-BC	Basic Info IP settings Online upgrade System manager Static trap address IP address 192.168.107.118 MAC address 60-19-29-00-1C-BC	
SNMP status: 1	SNMP reset enable Reset	Please enter the IP address. 192.168.103 Apply Cance Ouput window [09.42:19] 192.168.107.118 Online successfully.	

Diagram 3-4-1

• Delete

Select unnecessary IP address from list and click "Del" button to delete from list.

• SNMP Status

After one IP address is selected from the IP list, SNMP status will display 0 or 1. If there is program inside SNMP card, SNMP status would show 1. If there is no program inside, SNMP status would display 0. If there is no IP selected, SNMP status will be the default "---". Refer to Diagram 3-4-2.



Diagram 3-4-2

• Reset

If it's necessary to restart the IP addresses of devices, please select the checkbox of "SNMP reset enable" and click "Reset" button. Then, after entering password to confirm the login, you can restart the device. Please follow below steps to execute this action:

Step 1: Select IP address needed to restart IP from the list. Refer to Diagram 3-4-3.

C SNMP Manager				
System Settings Language Help				
192.168.107.121 192.108.107.123	MAC 044000 00-08-30-00-F7-1A 00-00-52-00-00-00	Basic Info P settings Online upgrade System manager Static trap address IP address 192.168.107.121 MAC address 00-08-3C-00-F7-1A		
SNMP status: 1	8NMP reset enable Repet	Output Window [11:10:00] 192:168:107:121 Online successfully. [11:12:57] 192:168:107:121 Online successfully. [11:14:34] 192:168:107:121 Online successfully. [11:14:44] 192:168:107:121 Online successfully. [11:14:44] 192:168:107:121 Online successfully. [11:15:11] 192:168:107:121 Online successfully. [11:16:47] 192:168:107:121 Online successfully. [11:16:41] 192:168:107:121 Online successfully. [11:16:11] 192:168:107:121 Online successfully. [11:16:11] 192:168:107:121 Online successfully.		

Diagram 3-4-3

Step 2: After IP is selected, please click the checkbox of "SNMP reset enable". Then, "Reset" button will become valid. Refer to Diagram 3-4-4.

SNMP Manager		X
System Settings Language Help		
IP address MAC address 192.168.107.121 00-08-3C-00-F7-1A 192.168.107.125 00-00-5E-00-00-00	Basic Info IP settings Online upgrade System manager Static trap address IP address 192.168.107.121 MAC address 00-08-3C-00-F7-1A	
192.168.107 Arid Del	Output window [11:10:00] 192:168:107.121 [11:12:57] 192:168:107.121 [11:13:45] 192:168:107.121 [11:14:44] 192:168:107.121 [11:14:43] 192:168:107.121 [11:14:53] 192:168:107.121 [11:15:17] 192:168:107.121 [11:15:17] 192:168:107.121 [11:15:47] 192:168:107.121 [11:16:11] 192:168:107.121	

Diagram 3-4-4

Step 3: Click "Reset" button. It will prompt the dialog to confirm the operation. If "Yes" is selected, it's requested to log in first. If "No" is selected, it will stop this operation. Refer to Diagram 3-4-5.

🔋 SNMP Manager			
System Settings Language Help			
IP address MAC address 192.168.107.121 00-08-3C-00-F7-1A 192.168.107.125 00-00-5E-00-00-00	Basic Info IP settings Online upgrade System manager Static trap address IP address 192.168.107.121 MAC address 00-08-3C-00-F7-1A Confirm		
SNMP status: 1 🔽 SNMP reset enable 🕞	Are you sure to operate? 192.168.107.121 vest		
	[11:10:00] 192:168:107.121 Online successfully. [11:12:57] 192:168:107.121 Online successfully. [11:13:45] 192:168:107.121 Wrong password entered. Please retry to logon. [11:14:45] 192:168:107.121 Online successfully. [11:14:45] 192:168:107.121 Online successfully. [11:14:45] 192:168:107.121 Online successfully. [11:14:51] 192:168:107.121 Online successfully. [11:16:11] 192:168:107.121 Online successfully.		

Diagram 3-4-5

Step 4: Enter the correct password and click "Login" button. The target device will be restarted. If "Cancel" is selected, it will stop this operation.

SNMP Manager	
System Settings Language Help	
P address MAC address 192.168.107.121 00-08-30-00-F7-1A 192.168.107.125 00-00-6E-00-00-00 SNMP status: 1	Basic Info IP settings Online upgrade System manager Static trap address IP address 192.108.107.121 MAC address D0-09-3C-00-F7-1A Please login first Please login Cancel
	Output window [11:10:00] 192:168:107:121 Online successfully. [11:13:45] 192:168:107:121 Online successfully. [11:14:36] Communication fails. Please check your network. [11:14:44] 192:168:107:121 Online successfully. [11:14:44] 192:168:107:121 Online successfully. [11:14:44] 192:168:107:121 Online successfully. [11:14:44] 192:168:107:121 Online successfully. [11:15:47] 192:168:107:121 Online successfully. [11:20:46] 192:168:107:121 Online successfully. [11:20:46] 192:168:107:121 Online successfully.

Diagram 3-4-6

NOTE: If changing MAC address of current device before reboot and current device is applying DHCP (Automatically obtain IP address) method, you need to manually click "Scan" button to scan.

3.4.2. SNMP Manager Function Menu

3.4.2.1. System

• Login

When remote login to access SNMP devices, it's necessary to verify ID. The default password is "12345678".

Step1: Select System >> Login

Step2: Enter default password and then click "Login" button. Or click "Cancel" to cancel

login. Refer to Diagram 3-4-7.

📑 SNM	P Manager			X
System	Settings Language Help			
192.1 192.1	IP address 168.103.55 168.107.118	MAC address 60-19-29-00-44-2E 60-19-29-00-1C-BC	Basic Info IP settings Online upgrade System manager Static trap address	
	SNMP status: 192.168.107 192.168.103	SNMP reset enable Scan Add Del	Please login first word Please login first Uggin Cancel [10.02:12] 192.168.107.118 Online successfully. [10.02:35] 192.168.107.118: Wrong password entered. Please retry to logon.	

Diagram 3-4-7

• Logout

Log out system when access is no longer needed.

• Quit

Select "Quit" to exit SNMP Manager.

3.4.2.2. Settings

• Basic Info

Basic information display IP address and Mac address. Refer to Diagram 3-4-8.

SNMP Manager	
System Settings Language Help	
IP address MAC address 192168.103.55 80-19-29-00-44-2E 192168.107.118 60-19-29-00-1C-BC	Basic Info IP settings Online upgrade System manager Static trap address IP address 192.168.107.118 MAC address 60-19-29-00-1C-BC
SNMP status: 1 SNMP reset enable Reset	Output window [10:02:12] 192.168.107.118 Online successfully. [10:02:35] 192.168.107.118 Wrong password entered. Please retry to logon. [10:06:40] Communication fails. Please check your network. [10:06:43] 192.168.103.55 Online successfully. [10:06:43] 192.168.103.55 Online successfully. [10:06:44] 192.168.107.118 Online successfully.

Diagram 3-4-8

• IP Setting

Part 1: Change MAC address

Step 1: Select IP address from IP list. It will display MAC address of device in the output window. If it's necessary to modify the MAC address of the device, click checkbox of "Change". Refer to Diagram 3-4-9.

SNMP Manager			=	- • 🔀
System Settings Language Help				
IP address	MAC address	Basic Info IP setting	Online upgrade System manager Static trap address	
192.168.107.118 60-	19-29-00-1C-BC		60-19-29-00-1C-BC 🔲 Change Apply	
		O Aut	omatically obtain IP address	
		O Usi	e a static IP address	
		IP address	192.168.107.118	
		Subnet mask	255.255.255.0	
		Default Gateway	192.168.107.254	
SNMP status: 1	NMP reset enable Reset		Ασριγ	
192.168.107	Scan	Output window		
	Add Del	[10:02:12] 192.168.107.1 [10:02:35] 192.168.107.1 [10:06:40] Communicati [10:06:43] 192.168.103.5 [10:06:43] 192.168.103.5 [10:06:44] 192.168.107.1	18 Online successfully. 18: Wrong password entered. Please retry to logon. on fails. Please check your network. 55 Online successfully. 18 Online successfully. 18 Online successfully.	

Diagram 3-4-9

Step 2: After checkbox of "Change" is selected, enter new MAC address into a box,

SNMP Manager System Settings Language Help		
IP address 192.168.103.55 192.168.107.118	MAC address 80-19-29-00-44-2E 60-19-29-00-1C-BC	Basic Info IP settings Online upgrade System manager Static trap address MAC address 60-19-29-00-1C-BC Im Enange Apply O Automatically obtain IP address Use a static IP address
SNMP status: 1	SNMP reset enable Reset	IP address 192168107.118 Subnet mask 255 255 255 0 Default Gateway 192168.107.254 Apply
192.168.107 192.168.103	Scan Add Del	Output window [10.02.12] 192.168.107.118 Online successfully. [10.02.33] 192.168.107.118 Wrong password entered. Please retry to logon. [10.06.44] 192.168.103.55 Online successfully. [10.06.43] 192.168.103.55 Online successfully. [10.06.44] 192.168.103.55 Online successfully. [10.06.44] 192.168.107.118 Online successfully.

"Apply" button will become valid to click. Refer to Diagram 3-4-10.

Diagram 3-4-10

Step 3: After modifying MAC address, click "Apply" button. Then, it will prompt a dialog to confirm the operation. Refer to Diagram 3-4-11.

📑 SNMP Manager		
System Settings Language Hel	p	
IP address 192.168.103.55	MAC address 80-19-29-00-44-2E	Basic Info IP settings Online upgrade System manager Static trap address
192.168.107.118	60-19-29-00-1C-BC	MAC address 60-19-29-00-1C-BC M Change Apply O Automatically obtain IP address
		Use a static IP address
		IP address 192.168.107.118
		Subnet mask 255,255,0
SNMP status: 1	Confii Pleas	I192.168.107.254 se confirm again? 192.168.107.118 IYes] No
192.188.107 192.168.103	Scan Add Del	Output window [10.02:12] 192.168.107.118 Online successfully. [10.02:35] 192.168.107.118 Wrong password entered. Please retry to logon. [10.06:43] 0.2168.103.55 Online successfully. [10.06:43] 192.168.103.55 Online successfully. [10.06:43] 192.168.103.55 Online successfully. [10.06:44] 192.168.107.118 Online successfully.

Diagram 3-4-11

Step 4: If "Yes" is selected, it will prompt "Operation success" in output window. Refer to

Diagram 3-4-12.

IP address	MAC address	Basic Info IP settings Online upgrade System manager Static trap address
92.168.103.55 92.168.107.118	60-19-29-00-44-2E 60-19-29-00-1C-BC	MAC address Change Apply
		Automatically obtain IP address O Use a static IP address IP address Subnet mask
SNMP status:	Stam	Output window
		[10:02:12] 192.168.107.118 Online successfully. [10:02:35] 192.168.107.118 Online successfully. [10:06:43] 192.168.103.55 Online successfully. [10:06:43] 192.168.103.55 Online successfully. [10:06:43] 192.168.103.55 Online successfully. [10:06:43] 192.168.107.118 Online successfully. [10:06:43] 192.168.107.118 Online successfully. [10:06:43] 192.168.107.118 Online successfully. [10:09:37] Wrong password entered. Please retry to logon. [10:09:42] Operation successfully.

Diagram 3-4-12

Part 2: There are two methods to obtain IP address:

- Automatically obtain IP address (DHCP)
- Manually configure IP address

The system will default automatically obtain IP addresses. If there is no this kind of service provided in LAN, the default IP will display as "192.168.102.230", Net mask as "255.255.255.0" and default gateway as "0.0.0.0". Refer to Diagram 3-4-13.

SNMP Manager			
System Settings Language Hel	p		
IP address 192168.103.55 192.168.107.118	MAC address 50-19-29-00-44-2E 60-19-29-00-1C-BC	Basic Info IP settings Online upgrade System manager Static trap address MAC address 60-19-29-00-1C-BC Change Apply Automatically obtain IP address Use a static IP address IP address IP address 192-168-107-118 Subnet mask 255-255-255-0 Default Gateway 192-168-107.254 Image: Content of the state of the s	-
SNMP status: 1	Sonn Add Del	Control 0utput window [10:02:12] 192.168.107.118 Online successfully. [10:02:35] 192.168.107.118 Wrong password entered. Please retry to logon. [10:06:40] 00minutication fails. Please check your network. [10:06:43] 192.168.107.13 Online successfully. [10:06:43] 192.168.107.13 Online successfully. [10:06:44] 192.168.107.13 Online successfully. [10:09:37] Wrong password entered. Please retry to logon. [10:09:37] Operation success [10:11:52] 192.168.107.118 Online successfully.	

Diagram 3-4-13

• Online upgrade

There are three methods for online upgrade:

- > Upgrade the selected devices: It will upgrade all SNMP devices listed on the window.
- Upgrade all un-upgraded devices: It will only upgrade SNMP devices which are not using the same version as current SNMP device is.
- Force to upgrade all devices: No matter what kinds of version are used for SNMP devices listed in the window list, it will upgrade to the version used for current SNMP device. Refer to Diagram 3-4-14.

SNMP Manager			
System Settings Language Help			
IP address	MAC address	Basic Info IP settings Online upgrade System manager Static trap address	
192.168.103.55	60-19-29-00-44-2E		
192.168.107.118	60-19-29-00-1C-BC	Target file path F1snmp1DEBUG_0201-08.S19 Browse	
		 Upgrade the selected device 	
		Upgrade all un-upgraded devices	
		 Force to upgrade all devices 	
		0%	
		Upgrade	
SNMP status: 1	I I SNMP reset enable Reset		
192.168.107	Scan	- Output window	
192.168.103		M0:02:121 102:180:107:110 Online cureacefully	
		[10:02:35] 192.168.107.118: Wrong password entered. Please retry to logon.	
	Del	[10:06:40] Communication fails. Please check your network.	
		[10:06:43] 192.168.103.55 Online successfully. [10:06:43] 192.168.103.55 Online successfully.	
		[10:06:44] 192.168.107.118 Online successfully.	
		[10:09:37] Wrong password entered. Please retry to logon.	
		[10:09:42] Operation success [10:11:52] 192168107118 Online successfully	

Diagram 3-4-14

Step 1: Click "Browse" button to choose program file. Refer to Diagram 3-4-15.

B) SNMP Manager
System Settings Language Help
IP address MAC address 192.168.107.121 00-08-3C-00-F7-1A Targetfile path D/snmp/DEBUG_0201-08.519
Open S
SNMP status: 1 SNMP n 192 168 107 Bcan Add Add
Del File Name: DEBUG_0201-08.819 Files of Type: All Files

Diagram 3-4-15

SNMP Manager	aln		
IP address 192.168.103.55 192.168.107.118 SNMP status; 1	MAC address 60-19-29-00-44-2E 60-19-29-00-1C-BC	Basic Info IP settings Online upgrade System manager Static trap address Target file path FAsnmpDEBUG_0201-08.319 Browse Image: Dypgrade the selected device Upgrade the selected devices Dypgrade all un-upgraded devices Image: Dypgrade all upgrade all devices 28% Image: Dypgrade Cancel	
192.168.107 192.168.103	Scan Add Del	Output window 10.06:40 Communication falls. Please check your network. 10.06:43 192.168.103.55 110.06:44 192.168.103.55 110.06:45 192.168.103.55 110.06:47 192.168.103.55 110.06:48 192.168.103.55 110.06:44 192.168.103.55 110.06:44 192.168.107.518 110.09:42 Operation success 110.11:52 192.168.107.118 110.11:52 192.168.107.118 110.16:12 192.168.107.118 110.16:17 192.168.107.118 110.16:17 192.168.107.118 110.16:17 192.168.107.118 110.16:17 192.168.107.118 110.16:17 192.168.107.118 110.16:17 192.168.107.118 110.16:17 192.168.107.118 110.16:17 192.168.107.118 110.16:17 192.168.107.118	

Step 2: Click "Upgrade" button to execute upgrade action. Refer to Diagram 3-4-15.

Diagram 3-4-15

Step 3: When upgrade is complete, you may check the message in output window. Refer to

Diagram 3-4-16.

SNMP Manager			- 🗆 🔀
System Settings Language Hel	lp		
Paddress 192168103.55 192168107.118	MAC address 60-19-29-00-44-2E 60-19-29-00-1C-BC 60-19-29-00-1C-BC	Basic Info IP settings Online upgrade System manager Static trap address Target file path F\snmp\DEBUG_0201-08.S19 Browse Upgrade the selected device Upgrade all un-upgrade devices Force to upgrade all devices 100% Upgrade Cancel	
192,168,107 192,168,103	Scan Add Del	Output window 1006:43 192.168.103.55 Online successfully. 1006:43 192.168.103.55 Online successfully. 1006:44 192.168.103.55 Online successfully. 1006:44 192.168.107.118 Online successfully. 1009:42 Operation success 1011:52 192.168.107.118 Online successfully. 1016:07 192.168.107.118 Charles to the successfully. 1011:612 192.168.107.118. Ready to upgrade for the 1 time. 1011:612 192.168.107.118. Ready to upgrade for the 1 time. 101:617 192.168.107.118. Formatting is completed. 101:617 192.168.107.118. Upgrade is completed. 101:61:03 192.168.107.118. Upgrade is completed.	

Diagram 3-4-16

NOTE: If abnormal situation occurs during upgrade process, the system will automatically re-start the upgrade operation. If this interruption occurs five times, system will automatically stop this operation. At this time, please check if LAN is working well.

• System manager

SNMP Manager			- 🗆 🔀
System Settings Language He	ip		
IP address	MAC address	Basic Info IP settings Online upgrade System manager Static trap address	
192.168.103.89	60-19-29-00-1E-CA	Version setting Password	- 11
192.168.103.91	60-19-29-00-97-93		
		Version: V2 Old password	
		Encrypt: None	
		Proving: None	
		 Select device Select device 	
		A B Select all	
SNMP status: 1	SNMP reset enable Reset	Apply	
192.168.103	Scan	Output window	
	Add	[16:41:25] 192.168.103.81 Online successfully.	

Diagram 3-4-17

Part A: You can set SNMP protocol version for selected or all devices. Simply choose SNMP protocol version first. The default setting is V2. If choosing V3, it's also necessary to set encrypt. Select devices to apply this setting.

- Select device: Set SNMP protocol version for selected SNMP devices from device list.
- > Select all: Set SNMP protocol version for all SNMP devices from device list.

Then, click "Apply" button to complete version setting.

Part B: You may modify single password for one SNMP device or all passwords for all SNMP devices. Please enter original password, new password and re-enter new password. Select devices to apply this setting.

- Select device: Choose to change password for selected SNMP device from device list.
- Select all: Choose to change passwords for all SNMP devices on the window list. Then, click "Apply" button to change password.
- **NOTE:** The length of password is 8~15 digits. If this password change is applied for all SNMP devices, all SNMP devices passwords must be consistent.
- Static trap address

You may configure two static trap addresses and change trap port in SNMP Manager. The

SNMP Manager System Settings Language Help		
IP address 192.168.103.81 192.168.103.89 192.168.103.91	MAC address 60-19-29-00-90-06 60-19-29-00-1E-CA 60-19-29-00-97-93	Basic Info IP settings Online upgrade System manager Static trap address Trap IP Address IP address Communication port 162 IP address 2 0.0.0 Select device Apply Select all Select all Select all Select all
SNMP status: 1	Som Add	Output window [11:52:02] 192:168:103:81 Online successfully. [11:52:37] 192:168:103:81 Online successfully. [11:52:37] 192:168:103:81 Online successfully.

default trap port is 162. Refer to Diagram 3-4-18.

Diagram 3-4-18

NOTE: This software allows SNMP device to send trap messages to 2 static trap addresses and 8 dynamic trap addresses. It will default define host computer with software installed as a dynamic trap address. If communication failure occurs between SNMP card and host computer for over 10 minutes, it will stop sending trap message.

3.4.2.3. Language

SNMP Manager offers 12 languages:

- $\sqrt{\text{Chinese}(\text{Simplified})}$
- \checkmark Chinese(Traditional)
- \checkmark English
- 🗸 German
- 🗸 Italian
- \checkmark Polish
- \checkmark Portuguese
- \checkmark Russian
- \checkmark Spanish
- \checkmark Turkish
- 🗸 Ukrainian

√ French

The default language setting would be English.

3.4.2.4. Help

About: Click "Help" menu and select "About" item. It represents the copyright information about software

3.5. Open Monitor

Click "Open Monitor" to open the monitoring webpage of MPPTracker.

3.6. Icon and Software Status

- Connecting devices: 🗾 and 💹 will rotate as an animation
- When receiving event message with devices connected: will flash for reminder
- When receiving event message without devices connected: Will flash for reminder

3.7. Message Board

Users can check message board for event list. Refer to Diagram 3-7:



Diagram 3-7

3.8. Exit

Click "Exit" to exist service application.

4. GUI Interface

There are five sections in GUI interface as marked in the illustration below:

configuration Device control View Help						
	Guest Monitored device: COM1_000000000000000					
💈 fu-jia-nb.vcn.vol.corp			Basic information			
< сом1_000000000000000			PV input voltage:			۰c
			Battery voltage:	13.49	External battery voltage:	v
C	- <i>-</i> -	7 0	Charging current:		External battery temperature:	۰c
		(+)	Charging power			day
	Product Information	Rated int	ormation			
			inal battery voltage:		Float voltage:	
			al charging current:		Battery type:	
			Absorption voltage:			
L						

Diagram 4-1

A. Function Menu offers complete tool-set for navigating and setting the GUI.

- B. Shortcut Menu provides short cuts to more commonly used functions.
- C. Navigation indicates all devices.
- **D. Current Monitoring Information** displays User ID, monitored device ID.

E. Main Window displays power flow, basic information, product information and rated information of current monitored device. Refer to Diagram 4-2.

200					-	1 III. 🔊
configuration Device control View Hei	lp Guest Monitored device: COM1 000000000000					
tu-lia-nb ven vol com		Basic Information				
Сом1_0000000000000000		PV input voltage:	20.2	Temperature:		℃
		Battery voltage:	13.49	External battery voltage:	0.06	v
		Charging current:	0.64	External battery temperature:		
		Charging power		Next equalization:		day
	Product Information	Rated information				
	Serial number: 00000000000000	Nominal battery voltage:		Float voltage:		
	CPU: 00002.01	Nominal charging current:		Battery type:	AGI	
		Absorption voltage:	13.6 V			

Diagram 4-2

1. Power flow:

There are three icons to represent solar panel, DC/DC and battery. It displays dynamic power flow with these three device icons.



Fault Mode

2. Basic Information:

It displays information of PV input voltage, battery voltage, charging current, output voltage, charging power, temperature, external battery voltage and external battery temperature.

3. Product information:

Product information displays Serial number and Main CPU version.

4. Rated information:

Rated information displays information of Nominal battery voltage, Nominal charging current, Absorption voltage, Float voltage and Battery type.

4.1. MPPTracker Configuration

4.1.1. Basic

It is to set up parameters for display. Select MPPTracker Configuration>>Basic. Refer to Diagram 4-1-1.

Basic		X
Page refresh interval:	2 🗧 Sec.	
Device scan interval:	5 🖨 Sec.	
Record interval:	60 🗧 Sec.	
Date format:	YYYY-MM-DD 🔽	
		Apply Close

Diagram 4-1-1

1. Page refresh interval: This interval time will determine how long the web page is

refreshed. Setting range is from 5 to 600 seconds. The default setting is 5 seconds.

- 2. Devices scan interval: This interval time will determine how long to scan connected devices. The setting range is from 5 to 600 seconds. The default setting is 5 seconds.
- 3. Record interval: This interval time will determine how long to record monitoring data of device into database. The setting range is from 30 to 600 seconds. The increment of each click is 30 seconds. The default setting is 60 seconds.
- 4. Date format: This system supports 4 different formats, "YYYY-MM-DD", "YYYY/MM/DD", "MM-DD-YYYY" and "MM/DD/YYYY". The default setting is "YYYY-MM-DD".

If any change is made, simply click "Apply" button. Then, the setting will be saved.

4.1.2. Password

It's password configuration for administrator only. Before operating and configuring the software, please login first and modify the password. The default password is "**administrator**" at first log in. Users can only browse device status and information as Guest without login as an Administrator. A guest can not control or execute any setting.

Step 1 Select MPPTracker Configuration>>Password. Refer to Diagram 4-1-2.

Password		
	Password	
Old password:	•••••	
New password:	•••••	
Confirm password:	•••••	
	Apply Clear	

Diagram 4-1-2

Step 2 Enter old password, new password and re-type new password to confirm new password. The new password should be at least 6 digits. Then, click "Apply" button to successfully modify password for administrator.

NOTE1: Simply click "Login" button on the top right corner to log in the software. **NOTE2:** If password is forgotten, it's necessary to re-install the software.

4.1.3. SMS Setting

It's to enter SMS receiver list. In the event of an alarm occurring, a message about device status will be sent to the specified users via mobile phone. For the event receiving list, please configure in "Event Action" page (refer to section 4.1.5).

Step 1 Choose MPPTracker Configuration >> SMS Setting. Refer to Diagram 4-1-3.

SMS Setting		
	Com. port setting	
Com. port:	сомз 🔽	
Baud rate:	1200	
Receivers list:	12345677788	12345677788 Add Delete
Note:	Click "Test" button to checkif Test	the transmission is successfully
		Apply Close

Diagram 4-1-3-1

- **Step 2** Select communication port and baud rate.
- **Step 3** Enter mobile phone numbers in "Phone no." column and click "Add" button to add phone no. in Receivers List. To delete numbers, simply select phone no. from "Receivers list" and click "Delete".
- Step 4 Click "Apply" button to save all changes. The "Test" button can be used to send a test SMS to make sure all setting is correct. If all parameters are set up correctly, system will send a test message to all receivers and pop up a successful message. (Refer to Diagram 4-1-3-2) Otherwise, it will pop up a failure dialog to indicate there is an error for parameter setting. (Refer to Diagram 4-1-3-3)

SMS Setting		K
	Com. port setting	
Com. port:	СОМЗ	
Baud rate:		
Receivers list	Test was successful Delete	
Note:	Click "Test" button to checkif the transmission is successfully Test	
	Apply Close	

Diagram 4-1-3-2

SMS Setting	
	Com. port setting
Com. port:	Сомз
Baud rate:	
Receivers list:	Test failed Delete
Note:	Click "Test" button to checkif the transmission is successfully Test
	Apply Close

Diagram 4-1-3-3

NOTE: It's required to plug in a GSM modem if sending a SMS to mobile phone.

4.1.4. E-mail

This configuration is allowed to send an alarm mail from SMTP server. For the event receiving list, please configure in "Event Action" page (refer to section 4.1.5).

To use this function, the e-mail service must be correctly configured in the computer. All columns in this function page are default empty. This action can't be executed without the SMTP information, e-mail account and password. Besides, the sender account should be allowed for SMTP/POP3 forwarding.

Step 1 Select MPPTracker Configuration >> E-mail. Refer to Diagram 4-1-4.

E-mail		
	SMTP server setting	
SMTP server:	smtp.test.com	Port: 25
	Exchange Server Apply	
Send from:	account@test.com	
User name:	account	
	Password Authentication needed	
Password:	•••••	
Receivers list:	test@test.com	
	test@test.com	Add Delete
Note:	Click "Test" button to checkif the transm	ission is successfully
		Apply Close

Diagram 4-1-4

- **Step 2** Enter SMTP server, Port, Send from E-mail address, User name and password. Click checkbox if password authentication is needed to verify password.
- **NOTE:** If using Exchange Server for mailbox system, it's required to configure Exchange server domain name in SMTP server. Beside, please click checkbox of "Exchange server" and click "Apply" button.
- **Step 3** Enter receivers' e-mail accounts in E-mail column. Then, click "Add" to add into Receivers list. To delete e-mail account, simply select accounts from Receivers list and click "Delete" button.
- Step 4 Click "Apply" to save all changes. The "Test" button can be used to send a test e-mail to all receivers to confirm correct operation. When the test e-mails are successfully sent to specific recipients, it will pop up a successful message on operated personal computer. Otherwise, it will pop up a failure dialog to indicate there is an error for parameter setting.

4.1.5. Event action

It's to configure response actions for events. It provides four response actions after events occur.

1. Event record: It will record event to data log in software after events occur. This function is default selected.

2. Warning message(s): It will send event message to tray.

3. SMS: It will send event message to specific mobile phone numbers after events occur.

4. E-mail: It will send event e-mail to assigned e-mail accounts after events occur.

Step 1 Select MPPTracker Configuration >> Event actions. Refer to Diagram 4-1-5.

Step 2 Select action methods by clicking checkbox.

Event action ID Level 4001 Fault Over charge current ٠ Send by: 🔽 Event record Fault Over temperature Fault Battery voltage under Warning message(s) Fault Battery voltage high E-mail Fault PV high loss Battery temperature too low Fault 4006 Battery temperature too high Fault Warning PV low loss 4021 PV high derating Warning 4022 Temperature high derating Warning Warning Battery temperature low alarm Battery low warning Message Message Message Restore to the defaults. Apply Close

Step 3 Click "Apply" button to save all configurations.

Diagram 4-1-5

NOTE1: When modifying receiver list in SMS or e-mail pages, it's necessary to refresh event action page to reload the updated receiver list.

4.1.6. Com. port Plug And Play Setting

To real-time monitor device, it will scan each com. port anytime. In this way, it will occupy communication ports. This function will release some communication ports which are not connected with devices. To avoid any improper operation, in-used communication ports will be displayed in disabled grey icons. Users can select "Allow scanned" to re-scan or "No scanning" to release communication ports based on requirements.

Step 1: Select MPPTracker configuration>> Com. port plug and play setting. Refer to Diagram 4-1-6.

Com. port pl	lug and play setting			
Сомб	• Allow scanned O	No Scanning Apply) (lsed	Refresh
				Close

Diagram 4-1-6

Step 2: Click "Refresh" to reload the status of com. ports.

Step 3: Click "No scanning" to stop scanning on this com. port. Click "Allow scanned" to start scanning on this com. port.

4.1.7. Modbus Serial Setting

This function is to set Modbus communication port with PCs that connected to Modbus card via RS232/RS485 converter. The settings include Modbus port, Baud rate, data bit, stop bit, parity and each Device ID in Modbus network.

Step 1 Select MPPTracker configuration>> Modbus serial setting. Refer to

Modbus serial setting				
Modbus port	COM1 🔫	Refresh		
Device ID	🔽 1 💌	Apply		
Baud rate	19200 🔻	Close		
Data Bit	8 💌			
Stop Bit	1 💌			
Parity	NONE			

Diagram 4-1-7.

Diagram 4-1-7

- **Step 2** Select Modbus port to connect PC.
- **Step 3** Select "Device ID" of connected inverter in Modbus network.
- **Step 4** Select "Baud rate" of com. port. The default setting is 19200.
- **Step 5** Modify "Data bit" of com. port. The default setting is 8.
- **Step 6** Modify "Stop bit" of com. port. The default setting is 1.
- **Step 7** Modify "Parity". The default setting is NONE.
- **Step 8** Click "Apply" button to save all changes. Click "Refresh" button to refresh the port list. Click "Close" button to close the window.

NOTE 1: MPPTracker supports multiple com. ports in multiple Modbus networks. All

configurations will be changed based on different port selected in Step 2.

NOTE 2: The default device ID of inverter is 1.

- **NOTE 3:** If none of device ID is selected, it will be identified as not connecting with any Modbus network.
- **NOTE 4:** If monitoring multiple Modbus devices, please repeat from step 2 to step 7 to set all ports.

4.2. Device control

4.2.1. Parameter Setting

This page is to activate some features and set up parameters for solar charge controller.

Select Device Control >> Parameter Setting or select shortcut icon Refer to Diagram 4-2-1.

Parameters setting	Ū						_		
Battery type:	Customized	-	Apply	Rated battery voltage:	Auto		•	Apply	
Battery abso	rption charging voltage:	14 🗧 V	Apply	BTS temperature	compensation ratio:	0 🖨	mV	Apply	
Battery Flo	pating charging voltage:	13.5 🌲 V	Apply	Batt	ery C.V. charge time:	5 🗘	Min.	Apply	
	Max charging current:	60 🗧 A	Apply						
-Battery equalization	n setting								
Battery equa	ilization: 💿 Enable 🔿 [Disable Appl	<u>y</u>						
	Battery equalized time:	5 🗘	Min. Apply	Batter	y equalized timeout:	8 🗘	Min.	Apply	
The max cur	rrent of battery equalization:	16 🖨	A Apply	Battery	equalization voltage:	14.6 🌲		Apply	
	Equalization interval:	2	Days Apply	(0 means this function	on is only activated by	user)			
Real-time a	ctivate battery equalization:	O Activate	• Cancel 🔼	Vida					
								Clo	ise

Diagram 4-2-1

- **Step 1** Activate/Shut down functions by clicking "Enable" or "Disable" button. Some parameters are allowed to change the numbers by clicking up-down arrows or modify the numbers directly in the number column.
- **Step 2** Click "Apply" button to save the settings. Each function setting is saved by clicking each "Apply" button.
- Battery type: Select connected battery type. There are three options, AGM, Flooded and Customized. Please refer to product manual for charging parameters of AGM and Flooded battery. When "Customized" is selected in battery type, uses can modify and set up charging voltage in absorption and float stage by clicking up-down arrow.
- Rated battery voltage: There are four options to select: Auto, 12V, 24V and 48V. Please refer to product manual for correct setting value.
- Battery absorption charging voltage: Click up-down arrow to set up battery absorption charging voltage for each 12-V battery. The setting range is 12.00~15.00.
- Battery floating charging voltage: Click up-down arrow to set up battery floating charging voltage for each 12-V battery. The setting range is 12.00V~15.00V.
- Max charging current: Click up-down arrow to set up maximum charging current. Maximum charging current in different solar charge controller model may be different. Please refer to product manual for the details.
- BTS temperature compensation ratio: It will derate battery charging voltage based

on this ratio when temperature is between 25°C and 50°C. The setting range is $0 \sim 60.0$ mV.

Derating battery charging voltage = (current temperature - 25° C) x battery numbers in series connection x BTS ratio

If BTS ratio is 1mV, current temperature is 30°C and it's 48VDC (12V x 4 pcs in series), the derating battery charging voltage is $10mV = (30°C-25°C) \times 4 \times 1mV$.

- Battery C.V. charging time: Click up-down arrow to set up duration time for battery absorption charging. The setting range is 5~900 minutes.
- Battery equalization: Enable or disable battery equalization function. It's necessary to enable this function in software before executing this function in device.
- Battery equalized time: Click up-down arrow to set up duration time for battery equalization. The setting range is 5~900 minutes.
- Battery equalized timeout: Click up-down arrow to set up the extended time to continue battery equalization. The setting range is 5~900 minutes.
- Equalization interval: Click up-down arrow to set up the frequency for battery equalization. The setting range is 0~90 days. When 0 is selected, it means this function is only activated by pressing power switch on the unit or configuring real-time activating in parameter setting.
- Real-time activate battery equalization: It's real-time action to activate battery equalization by selecting "Activate". Select "Cancel" to stop equalization immediately.
- Battery equalization voltage: Click up-down arrow to set up the battery equalization voltage for each 12V battery. The setting range is 12.00V ~ 15.50V.
- The max current of battery equalization: Click up-down arrow to set up the max. current in equalized stage. The setting range is 5A~60A.

4.2.2. Parallel charging setting

This function is only applied to monitor multiple Modbus or SNMP devices at the same time. Users can assign devices in different groups in this page. Devices assigned in the same group will be parallel charged to the same batteries. After assignment, simply click "Enable" or "Disable" to activate parallel charging function.

Select Device Control >> Parallel charging setting. Refers to Diagram 4-2-2

Parallel charging setting		
🖲 Enable 🔿 Disable	Groups	
	test1	test2
Add	93301503100019	
Select	00000000000000	
Delete		
Delete group		
Clear		
Close		

Diagram 4-2-2

"Add": Add group. Click "Add" button and it will pop up a dialog to enter group name.

Parallel charging setting	\mathbb{X}
O Enable O Disable	
Add	
Select	
Delete	
Delete group	
Clear Please input a group name	
Close Cancel	l

Please enter a group name and click "OK" to successfully add one group.

Parallel charging setting	
🔿 Enable 🔍 Disable	Groups
Add	
Select	
Delete	
Delete group	Input National Inc.
Clear	Please input a group name
Close	Cancel



Parallel charging setting		×
🔿 Enable 💿 Disable	Groups	
Add	test1	
Select		
Delete		
Delete group		
Clear		
Close		

Select": Click "Select" to assign group. It will pop up a dialog.

Parallel charging setting	\mathbf{X}
O Enable O Disable	
Add Sele Dele Delete 1 Clex Clex Clex Clox	

Please select mulitple devices from device list and also select assigned group name on the group list. Then, click "Group" button to assign selected devices to assigned group.

Group	
Devices	Groups test1 test2 Group Close

After click "Group" button, it will pop up a message to confirm operation.





> "**Delete**": Remove devices from assigned group.



Please select one device from assigned group and click "Delete" button to remove specific device from group. For example, click "00000000000000" from test1 group and then click "Delete" button. Then, "0000000000000" will be removed from test1 group.

Parallel charging setting		
🖲 Enable 🔘 Disable	Groups	
	test1	test2
Add	0000000000000	
Select	93301503100019	
Delete		
Delete group		
Clear		
Close		

> "Delete group": It's to delete group.

roups test1 00000000000000 93301503100019 0000000000000000	test2	
test1 00000000000001 93301503100019 00000000000000	test2	
00000000000001 93301503100019 00000000000000		
93301503100019		
000000000000		

Select device (it's ok to be blank) and then click "Delete group button. It will remove the whole group. For example, click any blank from test2 and then click "Delete group" button. It will delete test2 group name from group list.

Parallel charging setting		X
💿 Enable 🔘 Disable	Groups	
	test1	
Add	0000000000000000	_
Select	93301503100019	
Delete		
Delete group		
Clear		
Close		

"Clear": Clear all settings. Simply click "Clear" button to delete all settings in parallel charging setting page.

Parallel charging setting		3
🔿 Enable 🔍 Disable	Groups	
Add		
Select		
Delete		
Delete group		
Clear		
Close		

4.2.3. Restore to the defaults

This function is allowed to restore all settings back to default value and clear all data in database.

Select Device control >> Restore to the defaults. Refers to Diagram 4-2-2

Restore to the defaults								
Battery type:	AGM		Battery equalization:	disable				
Rated battery voltage:	Auto		Battery equalizaed time:	60	Min.			
Max charging current:	60.0	A	Equalization Interval:	30	Days			
BTS temperature compensation ratio:	0.0	mV	The max current of battery equalization:	15	A			
External battery voltage detect:	disable		Battery equalization voltage:	14.6	v			
Battery absorption charging voltage:	14.1	۷	Battery C.V. charge time:	150	Min.			
Battery floating charging voltage:	13.5							
This operation will also clear all existed data stored here, and shall be used cautiously.								
				(Close			

Diagram 4-2-3

4.3. View

4.3.1. Data

This function is to browse the working data of solar charge controller saved in table or chart format.

• Datasheets

Select View >>Data>>Datasheets or click shortcut icon . Refer to Diagram 4-3-1-1.

Select browsed device and period to display in the screen. Click "Browse" to get result.

- "Export Excel": When selected and click "Export" button, it will save listed table to local PC in .xls file.
- > **"Export":** Click "Export" button to save listed table to local PC in .PDF file.
- "Delete": Select specific data and click "Delete" button to delete the record. Otherwise, the record can not be deleted.
- > "Delete all": Click "Delete All" button to delete all records in the listed table.

Datasheets Charts							
	000 💌 Display iten	o: Z Time	Time period: 20	15-04-21 📇	2015-04-23		t Evrol
	Display Itel			13-04-21	2013-04-23		
Time	PV input voltage	Battery voltage	Charging current	Charging power	Unit Temperature	External battery voltage	External battery temper
2015-04-23 09:46:09	0.0	12.1	0.0	U.U	30.0	0.0	-30.0
2015-04-22 17:34:32	79.8	48.12	8.9	428.0	36.0	0.0	-30.0
2015-04-22 17:20:23	47.4	48.05	0.0	0.0	38.0	0.0	-30.0
2015-04-22 17:19:24	80.0	54.0	5.61	308.0	38.0	0.0	-30.0
2015-04-22 17:18:24	80.0	54.0	5.55	306.0	38.0	0.0	-30.0
2015-04-22 17:17:24	80.1	54.0	5.72	306.0	37.0	0.0	-30.0
2015-04-22 17:16:25	80.0	54.0	5.61	306.0	37.0	0.0	-30.0
2015-04-22 17:15:26	80.0	54.0	5.61	306.0	37.0	0.0	-30.0
2015-04-22 17:14:27	80.0	54.0	5.67		37.0		-30.0
2015-04-22 17:13:28	80.0	54.0	5.67	306.0	37.0	0.0	-30.0
2015-04-22 17:12:28	80.0	54.0	5.67	306.0	37.0	0.0	-30.0
2015-04-22 17:11:29	80.0	54.0	5.72	302.0	37.0	0.0	-30.0
2015-04-22 17:10:30	80.0	54.0	5.61	306.0	37.0	0.0	-30.0
2015-04-22 17:09:30	80.0	54.0	5.67	306.0	37.0	0.0	-30.0
2015-04-22 17:08:31	80.0	54.0	5.67	299.0	37.0	0.0	-30.0
2015-04-22 17:07:32	80.0	54.0	5.67	306.0	37.0	0.0	-30.0
2015-04-22 17:06:33	80.0	54.0	5.67	302.0	37.0	0.0	-30.0
2015-04-22 17:05:34	80.0	54.0	5.61	306.0	37.0	0.0	-30.0
2015-04-22 17:04:35	80.0	54.0	5.67	306.0	37.0	0.0	-30.0
Total: 44 row(s)						Export C	Delete Delete all Close

Diagram 4-3-1-1

• Charts

Select View >>Data>>Charts. Refer to Diagram 4-3-3-2.

Select browsed device and period. Then, click "Browse" to get the result.

Data Datasheets Charts									X
Device: 00000000000000	Period NO.: Year		Erowse						
PV input voltage	500								
Battery voltage Charging current	450								
Charging power Unit Temperature	400								
External battery voltage	350								
	300								
	> 250								
	200								
	150								
	100								
	50								
	00102	: 03 0	4 05	06 07	08	09	10 11	12	
									Close

Diagram 4-3-1-2

4.3.2. Event log

Select View >>Event log or click shortcut icon 💴 to enter event log.

It's to browse history events according to time duration selected. It lists all detailed information and statistics for history events. Refer to Diagram 4-3-2.

- "Export Excel": When selected and click "Export" button, it will save listed table to local PC in .xls file.
- > **"Export":** Click "Export" button to save listed table to local PC in .PDF file.
- > "**Delete**": Select specific data and click "Delete" button to delete the record.
- > "Delete all": Click "Delete All" button to delete all records in the listed table.



Diagram 4-3-2

4.4. Log in and Log out

This short cut icon 💹 is to display the login status. When icon 🔝 is displayed, it

means user status is guest. When icon **max** is displayed, it means user logins as administrator.

Click icon and enter password to login the software. The default password is "administrator". Refer to Diagram 4-4-1.

31						
configuration Device control ∨iew Hel	p					
	Guest Monitored device: COM1_000000000000					
💯 fu-jia-nb.vcn.vol.corp		1	Basic information			
Сом1_000000000000000000			PV input voltage:			
			Battery voltage:	13.49	External battery voltage:	
			Charging current:		External battery temperature:	
			Charging power		Next equalization:	day
	Login					
		Please login first				
	Password	•••••				
	Product Information	Login Clear				
	Serial number: 00000000000000				Float voltage:	
			I charging current		Battery type:	
			bsorption voltage:			

Diagram 4-4-1

Click icon to log out. Then, the status will become to "guest". Refer to Diagram 4-4-2.

configuration Device control View Help	
Evest Monitored device: COM1_00000000000	
🔽 fu-lia-nb-ven vet.corp Basic information	1
COM1_000000000000 PV Input voltage: 20.2 V Temperature	
Battery voltage: 13.49 V External battery voltage:	
Charging current 0.64 A External battery temperature	
Charging power 80 W Next equalization	
You are going to logout, are you sure?	
Product Information Rated information	
Serial number: 0000000000000 Nominal battery voltage: 12.0 V Float volta	
CPU: 00002.01 Nominal charging current 60.0 A Battery by	
Absorption voltage: 136 V	

Diagram 4-4-2

4.5. Help

- **About**: Click "Help" menu and select "About" item. It represents the copyright information about software
- **Help**: Click "Help" menu and select "Online help" item. It will open the help manual. Before operating software, please read manual carefully.