Step 1: Turn on the host computer

Please unzip the file and open the host computer program according to the path shown below.

Please refer to the following figure for setting, please select the COM port according to the

actual situation

∓ ∣ Debug			-		_ 🗆 X
页 共享	查看			~ 🕜	
↑ 📙 > I	3msHmi_V1.1.5 > Debug >	~	・ じ	Debug 中搜索	
a	名称	修改日期	类型	大小	ENC
19J	📜 can	2022/4/19 13:53	文件夹		FIN S POWER
ive	📜 data	2022/5/9 19:50	文件夹		
	kerneldlis	2022/4/19 13:53	文件夹		
1:00	📜 logo	2022/5/5 13:52	文件夹		
	preference	2022/4/21 19:22	文件夹		
	S BmsHmi.exe	2022/5/1 14:13	应用程序	2,570 KB	
	CHUSBDLL.dll	2017/1/9 10:45	应用程序扩展	12 KB	UART 👻
	ControlCAN.dll	2021/5/10 8:46	应用程序扩展	38 KB	
	Skin.dll	2021/5/10 8:46	应用程序扩展	2,674 KB	9600 bps 👻
					COM7 👻
藍盘 (C:)					English 👻
豑 (D:)					
卷 (E:)					Connect
					Copyright © 2022 Huasi Systems.
	x				All rights reserved.

Step2: the host computer interface

	Summary			Fault			
T IN S POWER	65.30	1%		High TV	•	Low TV	0
				High CV	9	Low CV	
🗉 Info	TotalVolt	TotalC	ur	High CT	9	Low CT	9
🕻 Config	50.0 V	0.0	Α	High VD	9	High TD	9
🛃 Updata	OLCellNum	15	-	High Cur	9	SOC Status	9
— ·	OLTempNum	4	-				
🞢 Data	Max Volt	3334	mV	Volt Cable	9	Temp Cable	9
X Tools	Min Volt	3332	mV	Comm Status	9	Low Insu	
[7] Terminal	Max Temp	28.9	°C	Adhesion	0	Open Fault	9
	Min Temp	28.4	°C	BMS Fault	9	Self Fault	9
	Max Dis Cur	100.0	Α	System Fault			
	Max Chg Cur	100.0	Α	System raute		COM7: 9600bps	V1.1.5
						comit sooops	*****

1. Detailed information

Please click Info to view the detailed information on the BMS, as shown in the figure b e I o w

	System Info Al	arm Info Syst	em				C)
□ PTU_MASTER				Base Info			
1# PT48100x	Total Volt	50.0	V	Total Cur	0.0	А	
	SOC	65.30	%	Fault Status	Normal	-	
-				Statistic Info			
	Max SOC	65.30	%	Max SOC Dev Idx	0	#	
	Min SOC	65.30	%	Min SOC Dev Idx	0	#	
	Max Mos Temp	30.5	°C	Max M_Temp Dev Idx	0	#	
	Max Envi Temp	33.9	°C	Max E_Temp Dev Idx	0	#	
	Volt Diff	2	mV	Temp Diff	0.5	°C	
	Max Cell Volt	3334	mV	Max Temp	28.9	°C	
	Min Cell Volt	3332	mV	Min Temp	28.4	°C	
	Max Cell Volt Idx	3	#	Max Temp Idx	3	#	
	Max Cell Volt Dev Idx	0	#	Max Temp Dev Idx	0	#	
	Min Cell Volt Idx	15	#	Min Temp Idx	4	#	
	Min Cell Volt Dev Idx	0	#	Min Temp Dev Idx	0	#	
	Max Dchg Cur	100.0	А	Max Chg Cur	100.0	А	
	System Info Sta	tistic Info Alarm	Info	Battery Info AFE Status			€
■PTU_MASTER	System Info Sta	tistic Info Alarm	Info	Battery Info AFE Status Base Info			•
■PTU_MASTER	System Info Sta	tistic Info Alarm	lnfo V	Battery Info AFE Status Base Info Total Cur	0.0	A	€
■PTU_MASTER 1# PT48100x	System Info Sta Total Volt System Time	tistic Info Alarm 50.0 20/10/01-21:00:08	v V B -	Battery Info AFE Status — Base Info Total Cur Work Status	0.0 Standby	A -	•
■PTU_MASTER	System Info Star Total Volt System Time Soft Ver	50.0 20/10/01-21:00:00 V2.0P R1.0 C1.3	V 3 - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver	0.0 Standby 4	A - -	•
■PTU_MASTER 1# PT48100x	System Info Star Total Volt System Time Soft Ver	50.0 20/10/01-21:00:02 V2.0P R1.0 C1.3	V 8 - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status	0.0 Standby 4	A - -	•
⊇ PTU_MASTER	System Info Star Total Volt System Time Soft Ver Heat Signal	tistic Info Alarm 50.0 20/10/01-21:00:00 V2.0P R1.0 C1.3 Non-Trigger	V 8 - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal	0.0 Standby 4 Non-Trigger	A - -	•
■ PTU_MASTER	System Info Sta Total Volt System Time Soft Ver Heat Signal Forbid Dis Signal	tistic Info Alarm 50.0 20/10/01-21:00:00 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger	V 3 - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal	0.0 Standby 4 Non-Trigger Non-Trigger	A - - -	•
PTU_MASTER	System Info Sta Total Volt System Time Soft Ver Heat Signal Forbid Dis Signal Force Chg Signal1	tistic Info Alarm 50.0 20/10/01-21:00:08 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger Non-Trigger	V 8 - - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal Force Chg Signal2	0.0 Standby 4 Non-Trigger Non-Trigger Non-Trigger	A - - - - -	•
PTU_MASTER	System Info State Total Volt System Time Soft Ver Heat Signal Forbid Dis Signal Force Chg Signal1	tistic Info Alarm 50.0 20/10/01-21:00:04 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger Non-Trigger	V 8 - - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal Force Chg Signal2 MOS Status	0.0 Standby 4 Non-Trigger Non-Trigger Non-Trigger	A - - - -	
■ PTU_MASTER	System Info State Total Volt System Time Soft Ver Heat Signal Forbid Dis Signal Force Chg Signal1 Dchg Mos Status	tistic Info Alarm 50.0 20/10/01-21:00:04 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger Non-Trigger On	V 8 - - - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal Force Chg Signal2 MOS Status Dchg Mos AFE Status	0.0 Standby 4 Non-Trigger Non-Trigger Non-Trigger	A - - - - -	
■ PTU_MASTER	System Info State Total Volt System Time Soft Ver Heat Signal Forbid Dis Signal Force Chg Signal1 Dchg Mos Status Chg Mos Status	tistic Info Alarm 50.0 20/10/01-21:00:00 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger On On	V 3 - - - - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal Force Chg Signal2 MOS Status Dchg Mos AFE Status Chg Mos AFE Status	0.0 Standby 4 Non-Trigger Non-Trigger Non-Trigger On On	A - - - - - -	
■ PTU_MASTER	System Info State Total Volt System Time Soft Ver Heat Signal Forbid Dis Signal Force Chg Signal1 Dchg Mos Status Chg Mos Status Pre-Dchg Mos Status Pre-Dchg Mos Status	tistic Info Alarm 50.0 20/10/01-21:00:02 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger Non-Trigger On On On Off	v Info v V 3 - - - - - - - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal Force Chg Signal2 MOS Status Dchg Mos AFE Status Chg Mos AFE Status CL Mos Status	0.0 Standby 4 Non-Trigger Non-Trigger Non-Trigger On On On	A - - - - - - - - - - - -	
■PTU_MASTER -	System Info State Total Volt System Time Soft Ver Soft Ver Heat Signal Forbid Dis Signal Force Chg Signal1 Dchg Mos Status Chg Mos Status Pre-Dchg Mos Status Dry1 Status	tistic Info Alarm 50.0 20/10/01-21:00:04 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger On On Off Off	v Info v V 3 - - - - - - - - - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal Force Chg Signal2 MOS Status Dchg Mos AFE Status Chg Mos AFE Status CL Mos Status Dry2 Status	0.0 Standby 4 Non-Trigger Non-Trigger Non-Trigger On On Off	A - - - - - - - - - - -	
■PTU_MASTER 1# PT48100x -	System Info State Total Volt System Time Soft Ver Soft Ver Heat Signal Forbid Dis Signal Force Chg Signal1 Dchg Mos Status Chg Mos Status Pre-Dchg Mos Status Dry1 Status LS1 Status	tistic Info Alarm 50.0 20/10/01-21:00:08 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger Non-Trigger On On Off Off Off	v 3 - - - - - - - - - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal Force Chg Signal2 MOS Status Chg Mos AFE Status CL Mos Status Dry2 Status LS2 Status	0.0 Standby 4 Non-Trigger Non-Trigger Non-Trigger On On Off Off	A - - - - - - - - - - - - - - - - -	
■ PTU_MASTER	System Info State Total Volt System Time Soft Ver Soft Ver Heat Signal Forbid Dis Signal Force Chg Signal1 Dchg Mos Status Chg Mos Status Pre-Dchg Mos Status Dry1 Status LS1 Status	tistic Info Alarm 50.0 20/10/01-21:00:04 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger Non-Trigger On On Off Off Off	v 3 - - - - - - - - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal Force Chg Signal2 MOS Status Chg Mos AFE Status Chg Mos AFE Status Chg Mos AFE Status LS2 Status LS2 Status	0.0 Standby 4 Non-Trigger Non-Trigger Non-Trigger On On Off Off	A - - - - - - - - - - - - - -	
■ PTU_MASTER	System Info State Total Volt System Time Soft Ver Heat Signal Forbid Dis Signal Force Chg Signal1 Dchg Mos Status Chg Mos Status Pre-Dchg Mos Status Dry1 Status LS1 Status	tistic Info Alarm 50.0 20/10/01-21:00:04 V2.0P R1.0 C1.3 Non-Trigger Non-Trigger Non-Trigger On On Off Off Off	v 3 - - - - - - - - - -	Battery Info AFE Status Base Info Total Cur Work Status Build Ver Signal Status Cool Signal Forbid Chg Signal Force Chg Signal2 MOS Status Dchg Mos AFE Status Chg Mos AFE Status Chg Mos AFE Status LS2 Status LS2 Status	0.0 Standby 4 Non-Trigger Non-Trigger Non-Trigger On On Off Off	A - - - - - - - - - - - -	

2. Parameter configuration

If you want to modify the BMS parameters, please click config, find the place to be modified, right-click the mouse and select write after modification. After the parameter configuration modification is completed, the battery needs to be restarted to take e f f f e c t .

	Sys Config	SOx Config	Gen Alarm	Dchg Alarm Chg Alarm		(i)
■ PTU_MASTER				Base Config		^
1# PT48100x	Bat Type	LiFePO4	-	Bat Num	15	
	Temp Type	10K	-	Temp Num	4	
	Rated Volt	48.0	V	Rated Cap	100.0	Ah
	PreDchg Count	3	-	CL Enable	Disable	
	PreDchg Cur	0.8	А	Pre Dchg Timeout	3	s
	Rated Dchg Cur	100.0	А	Rated Chg Cur	100.0	A
	Cur Ratio	920	-	Cur Sensor Offset	0.0	A
	Cur Sensor Filter	0.0	Α	Cur True Value	0.0	Α
	Request Chg Volt	54.0	V	Chg Cur Dir	Negative	
	Fan On Temp	35	°C	Fan Off Temp	25	°C
	Heat On Temp	-5	°C	Heat OFF Temp	5	°C
	Gyroscope Enable	0	-	Force Sleep	Disable	· ·
	Auto Sleep Enable	Disable	-	Auto Sleep Delay	1440	min
	Status Switch Cur	2.0	Α	Status Switch Time	3.0	s
				Comm Config		
	CAN Protocol	3	-	CAN BaudRate	500K	bps
	RS485 Protocol	0	-	RS485 BaudRate	9600	bps
	RS485 Check	None	-	RS485 StopBits	1	
				Balance Config		
	Balance Num	5	-	Balance On Volt	3350	mV
	Balance On Diff Vo	olt 30	mV	Balance Off Diff Volt	15	mV

3. Program download Please click Updata to upgrade the program, select PTU and click Search to open the required program file for download.

	Sum							
Info	Т	SN	Name PT48100x	Address 1	Boot Ver V2.1.0	Update Time 2022/08/10 20:01:54	Status Normal	
✿Config • Updata	0							
ã Data X Tools	N I							
🖾 Terminal	M N Mi				92			brand
	Ma	Balance Num	1 5	U	-	COM7: 96 Balance On Volt	00bps	v1.1.5 mV

4. Historical query Select DATA to view historical data of BMS

			4	_ [→
	Summary	Dev Type:PTU 📔 Dev Idx: 1 📑		
TIN J POWER	65.30%	Q Retrieve Q Export Q Format	w TV	•
		SN Name Size Status	v CV	9
🗉 Info	TotalVolt T	□ 1 2022年7月22日 1024.00KB	и СТ	9
🛣 Config	50.0 V		h TD	•
🛃 Updata	OLCellNum OLTempNum		Status	•
🞢 Data	Max Volt 3		o Cable	9
🗶 Tools	Min Volt 3		r Insu	•
🖾 Terminal	Max Temp		n Fault	•
	Min Temp		Fault	9
	Max Dis Cur 1			
	Max Chg Cur 1			
			lbps	V1.1.5