

PTU BMS Update User Manual

Version: 01 Date: 2023-01-13



Introduction

The following manual are instructions for downloading the BMS software program for Sacred Sun 48V batteries and updating the BMS firmware on 'older' batteries that are installed with 'newer' BMS models. Old BMS batteries are dated before 4/15/2022 and will need to be updated when installed with new BMS batteries dated after 4/15/2022. We will email you the required software and firmware for downloading. Please save them in a separate folder on your computer.

1、 To login to BMS Software "PT48xxA_HMI" & to update program

1: Unzip the file "PT48xxA_HMI". It may be different version - just check "PT48xxA HMI"



Uzip this file into the same name

2: Select the upper compressed package - right click to unzip- choose to extract to the current folder

E PT48xxA_HM	V2.1.13-FNS(old code softwa	1/13/2023 4:42 PM	File folder
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3: Double-click "PT48xxA-HMI" in the upper folder to pop up the upper connection interface



double click on the bin file





4: Double-click "PT48xxA_HMI.exe" to enter the login interface

名称	修改日期	类型
CSkin.dll	2020/6/3 14:39	应用程序扩展
🗟 log4net.dll	2017/3/8 19:26	应用程序扩展
🗋 log4net.xml	2017/3/8 19:26	XML 文档
🗟 MyLibrary.dll	2020/11/3 16:31	应用程序扩展
Newtonsoft.Json.dll	2020/6/3 14:39	应用程序扩展
Newtonsoft.Json.xml	2020/6/3 14:39	XML文档
PT48xxA_HMI.exe	2022/2/18 15:15	应用程序
📄 PT48xxA_HMI.pdb	2022/2/18 15:15	PDB 文件
	double click	
<		>

5: Login Instructions:

Comm mode: RS485. Select your communication port (e.g.COM7). Each computer port number is different. Device number: 1. Select Language. Click Connect

Ð			c
Comm mode:	RS485	CAN Style:	USBCAN2
Comm port:	COM7	Language:	English
Dev num:	1	t sele	ect language
	8 Ca	onnect	



6、 Click the Update button on the left side of the main interface page

								€
	3	Current	Statistics					
		0.0 A	Max TV	53.0	V	Device ID	1	-
	Info		Min TV	53.0	V	Device ID	1	-
۵	Config	High SOC	Max CV	3511	mV	Device ID	1	-
Ł	Update		Min CV	3301	mV	Device ID	1	-
<i>.</i>	Data	100%	Max Temp	23.5	°C	Device ID	1	-
			Min Temp	22.9	°C	Device ID	1	-
ι φυ	DAT SN	Low SOC	Max VD	210	mV	Device ID	1	-
(/)	模拟测试	100%	Max TD	0.6	°C	Device ID	1	-
			Fault	0	-	Device ID	1	-
		`update program	Port: COM5	Rate: 9600		2022/4/21	Version	V2.1.15

7: Program download requires a password, the password is: 123. Sign in

ô		C
	Password: ***]
	Sign in Change	



8: Successfully entered the update interface page. Click Open and locate the S.19 file we emailed you.

<u>ال</u>							D
PT48xxA		Q Search					Dpen
ID	Sec	Name	Addr	Hard Ver	Soft Ver	Boot Ver	Up ate time
					Click progr	on open to am S.19	o find the file
			0	.0%			🛓 Download

9: Select the correct update as shown below:

PT48100D_Update _Old-to-new. s19 is for 3U 48v100Ah battery.

HS_PT48100D_Old_To_New_V2.0P_R1.0_C2.0... 9/28/2022 1:09 AM S19 File

279 KB

PT48100D is for 3U FCIFP48100A battery

10: After selecting the correct program, click Download to start the update.



.							€
PT48xxA		Q Search	\PT48	100C_Update_	Old_To_New.s	19	Dpen
ID	Sec	Name	Addr	Hard Ver	Soft Ver	Boot Ver	Update time
		1, c	onfirm	n the prog	jram 2、	Click star	t update
			C	0.0%			July Download

11: The upgrade process is shown below:

.							D
PT48xxA	Ŧ	Q Search	\PT48	100C_Update_0	Old_To_New.s1	19	Dpen
ID	Sec	Name	Addr	Hard Ver	Soft Ver	Boot Ver	Update time
			-	09/			A Developed
			2	.0%			

12: Update completed.



٤							C)
PT48xxA	T	Q Search	\PT48	3100C_Update_	Old_To_New.s1	19	📄 Open
ID	Sec	Name	Addr	Hard Ver	Soft Ver	Boot Ver	Update time
			()	Upgrade ended: U	lpgrade succeede	ed	
			10	8100C_Update_Old_To_New.s19 Hard Ver Soft Ver Boot Ver Update tim Upgrade ended: Upgrade succeeded 確定 00.0%	L Download		

1、Note: Once the update is complete, the "PT48xxA_HMI" host computer will not be able to connect to BMS. You will need to use the "BmsHmi" software program to log in and to access the BMS.

2、The following is the "BmsHmi " software log-in procedure to access the BMS and update the batteries to the new BMS program:

2、 To login to the "BmsHmi " Software & Update Latest Firmware

1: Unzip the "BmsHmi" software file. It may be a different Version. Just check "BmsHmi"





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2: Select the host computer compressed package --- right click to unzip--- Choose to extract to the current folder

BmsHmi_V1.1.5(new code software)

9/29/2022 11:41 PM

File folder



3: Double-click "BmsHmi.exe" in the host computer folder to pop up the host computer connection interface



4: The upper connection interface page will be displayed as follows:





..:

Login interface explanation:

- 1、 If you choose RS485 communication, please select UART
- 2、Porter rate selection 9600bps
- 3、Select the communication port your computer shows corresponding to RS485
- 4、 Language setting: select correct language
- 5、 Click Connect

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5: Upper Main Interface page:

							€
	Summary			Fault			
	0.00	%		High Total Volt	0	Low Total Volt	•
				High Cell Volt	9	Low Cell Volt	9
🗉 Info	Total Volt	Total C	ur	High Cell Temp	0	Low Cell Temp	
🖾 Config	49.7 V	0.3	Α	High Volt Diff	0	High Temp Diff	-
🗣 Undata	Online Cell	15	节	High Cur		SOC Status	
E opaata	Online Temp	4	个				
🕋 Data	Max Cell Volt	3500	mV	Volt Cable	-	Temp Cable	-
🔀 Tools	Min Cell Volt	3217	mV	Comm Status	0	Low Insu	9
	Max Cell	23.4	°C	Adhesion	9	Open Fault	9
🖾 Terminal	Min Cell	23.0	°C	BMS Fault		Self Fault	
	Max Dchg	50.0	А	Sind Fault	-	Sen ruur	-
	Max Chg Cur	10.0	А	System Fault	-	COM5: 9600bps	V110
	Max Chg Cur	10.0	Α	System Fault	•	COM5: 9600bps	V1.1.0

6. Please click 'Updata' to download the latest firmware. Select PTU and click Search to open the required program file we sent to you for download (see below). Wait until the download is 100% completed and the battery will restart.

HS_PT48100D_APP_V2.0P_R1.0_C2.2_B9. s19 is for **3U** 48v100Ah battery

	Sum	_					(+) (+)	
		PTU	ि Se	arch			📄 Open 🚺 🚳	
		SN	Name	Address	Boot Ver	Update Time	Status	
🗏 Info		□ 1	PT48100x	1	V2.1.0	2022/08/10 20:01:54	Normal	
🔓 Config								
🛃 Updata	OL OL							
🞢 Data	N							
🔀 Tools	1							
7 Terminal	м							
	M							
	м							
	Ma			(0%		Download	
						Ø COM7: 96	00bps V1.1.5	_
		Balance M	Num 5		-	Balance On Volt	3350 mV	
		Balance (On Diff Volt 3	0	mV	Balance Off Diff Volt	15 mV	