

# Software Upgrading Manual for Power Lite

### 1. Tools for software upgrading

- 1.1. A laptop or desktop computer installing a RS485 to USB driver, BootLoader and UIWare.
- 1.2. A RS485USB converter with relative cables which have been modified according to the interface definition of Power Lite.

Interface	Pin Definiton	Pic.
	Pin 3: BMS transmit; Computer receiver	
DS222	Pin 4: BMS receiver; Computer transmit	1 2 3 4 5 6
K5252	Pin 5: GND	
	Pin 1, 2 6: NC	
	Pin 4: NC	12345678
DS485	Pin 2, 7: RS485-A	
N3403	Pin 3、6: RS485-B	
	Pin 8: GND	

Figure 1.1 Interface definition of Power Lite



Figure 1.2 RS485/USB converter for software upgrading

## 2. Software upgrading procedure



2.1. Connect the computer and Power Lite via RS485/USB converter. Set the external dial-up address of battery to 100000, as shown in figure 2.2.

Figure 2.1 Connect laptop and Power Lite via RS485-USB converter



Figure 2.2 Dial-up address is 100000

2.2. Open "BootLoader" software and turn on the power switch of Power Lite.

名称	修改日期	类型	大小
🎭 Bootloader	2019-06-26 14:13	应用程序	72 KB
Bootloader.pdb	2019-06-26 14:13	PDB 文件	62 KB
Bootloader.vshost	2019-06-26 13:53	应用程序	21 KB
Bootloader.vshost.exe.manifest	2013-03-18 17:00	MANIFEST 文件	1 KB
Customer.cfg	2020-06-02 9:09	CFG 文件	1 KB
system.cfg	2017-04-24 8:39	CFG 文件	1 KB

Figure 2.3 Open "Bootloader" software



Figure 2.4 Turn on Power Lite

2.3. Click on the "Browse" button and select the target BMS firmware for upgrading. [The target firmware is

🌺 Bootloader(M01A VER:2019.06.26)	x
选择语言(Choose language) 英语(English)	▼ <sup>4</sup> 初开 × ×
Common set	Set ← → ヾ ↑ 📴 « 03 → V1.24 YZ107-16并, 在V1 ∨ ひ 🔎 搜索"V1.24 YZ107-16并,
SerialPortName: 🗸 Refres	组织▼ 新建文件夹 Ⅲ ▼ □ ?
Delay(ms): 50 V Fram	e He ^
Frame Length: 512 V	
	□ LM-M01A-Y2107-21.Q2.08-200527 升级.bin 2020-05-27 14:55 BIN
File Path(*. bin):	──
browse.	▶ 音乐
	■ 桌面
Fram	🖆 OS (C:)
1 1 am	Personal Learn
	Project Manag     Others (5)
Undate State	Company & Pr v C
opuate State	
	文件名(1):LM-M01A-YZ107-21.Q2.08-200527 升级.bin / *.bin /
	打开(0) 取消

### LM-M01A-YZ107-21.Q2.14-210109]

Figure 2.5 Select the target BMS program

2.4. Set the baudrate to "115200" as shown in figure 2.6.

	选择语言 (Choose language) 英语 (English)	) ~	
	Common set	App Set	Boot Set
$\sim \sim \sim$	SerialPortName: V Ketres	BaudKate: 9600 V	DaudAate: 115200 ∨
	Delay(ms): 50 V	Frame Header Tail: 5AA5	Frame Header Tail: 5FF5
	Frame Length: 512 V	Parity: None 🗸	Parity: None 🗸
	File Fath(*. bin): G: W Browse: Fr	Auto Set Parameter	RUN

#### Figure 2.6 Baudrate setup

2.5. Click on the "RUN" button and start to upgrade BMS software. If failed, press the reset swith with a small screwdriver. Position of the swith is shown as below.



Figure 2.7 Position of resset button

2.6. When upgrading done, it will show "Upgrade OK" and then close Bootloader software maunally.

手内貫 (CHOOSe	language)	英语(English)	~			
mmon set			App Set		Boot Set	
erialPortName:	COM7	~ Refres	BaudRate:	9600 ~	BaudRate:	115200
Delay(ms):	50	$\sim$	Frame Header Tail:	5AA5	Frame Header Tail:	5FF5
Frame Length:	512	~	Parity:	None 🗸	Parity:	None
		15	7/157			

Figure 2.8 Upgrading finised

# 3. Check the version of BMS program

3.1. Open upper computer software "UIWare" . And please confirm that software Bootloader is closed.



名称	修改日期	类型	大小
🦲 config	2020-05-28 17:30	文件夹	
DataBase	2020-05-28 17:30	文件夹	
🖬 file_analysistpath	2020-03-12 12:01	Microsoft Word	3 KB
Microsoft.Office.Interop.Excel.dll	2011-12-12 6:54	应用程序扩展	1,514 KB
📧 UIWare	2020-05-28 14:11	应用程序	379 KB
🗋 UIWare.pdb	2020-05-28 14:11	PDB 文件	430 KB
📋 UIWare	2020-05-28 14:11	XML 文档	16 KB

Figure 3.1 Open software "UIWare"

3.2. Select "INFO" button, and set the number of "DipAddr" to "0" as below.

ALL INFO FARAL CONFIG S	IURAGE		-		
tion Value Vnit Capti	on Value Unit	Protect Status	Alarm Status	Normal Status	
		No_Voltage_Protect	No_Voltage_Alarm	SOC:0.00% SOC:0.00% Statuc-de:00.00.00.00.00.00.00.00.00.00.00.00	
		No_Current_Protect	No_Current_Alarm	FirmVer: BostVer: SN:	
		No_Temp_Protect	No_Temp_Alarm	Tridut: Fridut: FordJ14: Distrine: CommunicationOK	
		No_ShortCurrent_Reverse	No_Other_Alarm	NoCurrent	
				Current_Limiter_Disable	
				Other state	
		Berordfrare			
		ID ADDR KK_TH	PCB_BARCODE	PACE_BABCODE Time	CHL
232 I J Dipådår 0 465 Status Delay 0 and Chele 385 paraster 13 AD10255 FCH_29 FACH_29 Time Check	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
	>	<			
	C				

Figure 3.2 Set dial-up address

3.3. When communication is OK, version of the current BMS program which should be consistent with the target one for upgrading can be read at the bottom of the software interface as shown in Figure 3.3. If the version of the program is not right, please upgrade it as software upgrading procedure. [The target firmware is



4 5 7 8 9 10 11	3, 339 3, 337 3, 333 3, 335 3, 334 3, 336 3, 335 3, 335 3, 333	V V V V V V V V	V_MAX V_MIN V_DIFF Current Capacity_Full Capacity_S Loop_count TEMP1 TEMP1	3, 339 3, 332 0, 007 0, 00 100, 00 98, 10 8 28 28 28 28	₹ ₹ Å Å Å Å Å Å Å	No_Current_Protect No_Temp_Protect No_ShortCurrent_Reverse	No_Current_Alarm No_Temp_Alarm No_Other_Alarm	Statusciełe 00 00 10 00 00 00 00 00 00 00 00 00 00	0.00		
12	3.335	V	TEMP3	28	C			Current Limiter Disable			
13	3.335	¥ v	TEMP4	29	10			Charge MOS Open			
15	3, 335	v	Env_TEMP	29	U			<ul> <li>Charge_mUS_Open</li> </ul>			
16	3. 332	V				BasardTrass				PACE SH	
						TD ADDR RE TE	PCR BARCODE	PACK RABCODE Time	CRU1	BatteryCode	
232 (a) 485 St Read and Ch ID ADD	1 tatus nack IMS_parane DRESS FCB_SM	v ter PACK_SN	DipAddr 0 v Delay 0 ÷ (	000 123 (s)	0000						
232 (a) 485 St -Read and Ch ID ADD <	1 tatus sack IMS_paramo DRESS FCB_SB	v ter PACK_SN	Dipåddr 0 V Deley 0 V ( Tine Check_Result:	000 123 (s)	0 0 0 0 3 4 5 6	<			,	∑ IskutoWrite ReadbardInf	



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