

# RIY Kit Product Operating Instructions

## 套件产品操作说明书

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SHENZHEN EEL BATTERY CO., LTD

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## Battery Kit Operation









#### E E 17:

## Upper Computer Operation

#### 1. Decompress the host computer file

BatteryMonitor V2.1.8

#### 2. Open the monitor software

- 1) Open the folder
- 2) select the upper computer software
- 3) double click to open the upper computer

agreement	2022/3/18 9:12	文件夹	
BatteryMonitor V2.1.8	2022/3/18 9:13	文件夹	
💼 de	2022/3/18 9:12	文件夹	
🚞 es	2022/3/18 9:12	文件夹	
📁 ja	2022/3/18 9:12	文件夹	
📒 Languages	2022/3/18 9:12	文件夹	
🛅 logs	2021/10/21 9:28	文件夹	
arealTimeRecord	2021/10/21 9:27	文件夹	
🛅 ru	2022/3/18 9:12	文件夹	
]] Battery Monitor V2.1.8操作说明.pdf	2021/10/21 8:56	PDF 文件	6,075 KB
SatteryMonitor.exe	2021/10/21 20:12	应用程序	1,785 KB
P BatteryMonitor.exe.config	2021/10/20 19:52	XML Configurati	3 KB
BatteryMonitor.pdb	2021/10/20 20:10	PDB 文件	522 KB
DevExpress.Data.v15.2.dll	2017/11/17 21:43	应用程序扩展	5,082 KB
DevExpress.Data.v15.2.xml	2017/11/17 21:43	XML 文档	1,098 KB
الد <u>معرفة المعرفة المعرفة المعرفة المعرفة</u>	2017/11/17 21.42	公司省办卡型	1 111 KD

#### 3. Load protocol file

1)Select Import Protocol

See Figure 3-1

- 2)pop up the folder (select *Agreement* in the upper computer folder) See Figure 3-1
- 3)select the protocol suffix EN in the Agreement folder that corresponds to the English protocol (e.g. 16s V20 ADDR EN) See Figure 3-2
- 4) click **OK**

See Figure 3-3

0 oltage(V) 5: 最低: ax voltage 0.000 V	voltage30 ⓒ 打开	40 <sup>50</sup> 60	Battery voltage	Battery infom	ation	Protocol name: Protocol version: Port config Port num	请加载 请加载 9600
tage difference 0	$\leftrightarrow \rightarrow \cdot \uparrow$	E:\upper computer\BatteryMonitor	V2.1.8	~	C /2 搜索"E	atteryMonitor V2.1	Drea
	组织 ▼ 新建文件夹					= • • •	Pack addr
	3 测研部 (192.16	名称	修改日期	类型	大小		Pack
	> II 视频	Agreement	2022/3/18 9:12	文件夹			
	> 🖪 图片	BatteryMonitor V2.1.8	2022/3/18 9:13	文件夹			Pack
		늘 de	2022/3/18 9:12	文件夹			To all
	> ↓ 下载	📒 es	2022/3/18 9:12	文件夹		· · · · · · · · · · · · · · · · · · ·	FOLK
	→ 60 音乐	🛅 ja	2022/3/18 9:12	文件夹			Pack
	> 🌆 桌面	🚞 Languages	2022/3/18 9:12	文件夹			
	> 📕 OS (C:)	📁 logs	2021/10/21 9:28	文件夹			Pack
	> 👝 本地磁盘 (D:)	🚞 RealTimeRecord	2021/10/21 9:27	文件夹			Pack
	> 本地磁盘 (E:)	🚞 ru	2022/3/18 9:12	文件夹			1 DEA
		DevExpress.Data.v15.2	2017/11/17 21:43	XML 文档	1,098 KB		Pack
	文件	名(N):			<ul> <li>✓ protocol fi</li> </ul>	le(*.xml) ~	
					打开(0)		
	BMS informa	ation a Part mod	el:			Pack total	0
	Software Ve	r: Protocol	version:			Cycle refresh	n Multij

Figure 3-1

l voltage(V)	G л <del>л</del>		- ·· ·			Protocol vers	ion: 请加裁
ره: Vlax voltage	← → ~ ↑	« upper computer > Battery	Monitor V2.1.8 > Agreement	Ŷ	C      沒素"Agreen	nent"	9600
0.000 V	组织 ▼ 新建文件夹				≣	• 🔟 😗 ne	ect Break
oltage difference	> 🔀 视频	名称	修改日期	类型	大小		
	> 📉 图片	125_V20_ADDR	2020/7/24 17:32	XML 文档	71 KB	nfi	g 📃 Pack addr
	> 🔤 文档	125_V20_ADDR_EN	2021/8/24 13:36	XML 文档	66 KB		1 Park
	> 山下戦	135_V20_ADDR	2020/7/24 17:32	XML 文档	71 KB		
		135_V20_ADDR_EN	2021/8/24 13:35	XML 文档	67 KB	ki	2 Pack
		145_V20_ADDR	2020/8/6 10:41	XML 文档	72 KB		
		145_V20_ADDR_EN	2021/8/24 13:35	XML 文档	67 KB	k	3 Pack
	> 🗳 OS (C:)	155_V20_ADDR	2020/7/24 17:31	XML 文档	73 KB		
	> = 本地磁盘 (D:)	155_V20_ADDR_EN	2021/8/24 13:35	XML 文档	68 KB	k	4 Pack
	> 👝 本地磁盘 (E:)	165_V20_ADDR	2020/7/3 15:06	XML 文档	73 KB		E David
	> 🕳 本地磁盘 (F:)	165_V20_ADDR_EN	2021/8/24 13:32	XML 文档	68 KB		Pack
	文件	名(N):			v protocol file(*.xm	l) ~ ki	6 Pack
					打开(0)	取消	
						A CONTRACTOR	Pack
						Pack	B
	PMC	information					
	Man	ufacturari	Part model:			Pack to	tal 0
	Walk	unaccurer.	Part model.				

Figure 3-2

		anna an tha anna an tha		Protocol version:	2.0
ell voltage(V) 最高: 最低:		Battery voltage	Battery infomation	Port config	
Max voltage 0.000 V 0.000 V		0.00V	Remaining capacity 0.00 Ah Total capacity 0.00 Ah	Port num Baud rate	9600
/oltage difference 0.000mV	soc: 0.0%	Current	SOC 0.0 %	Connect	
Call01 Call02	fode:	0.004	Rated capacity 0.00 Ah	- Target config 🛛	Pack addr
0.000 V	0	• () ()()A	× ttery cycles 0 times	Pack 1	Pack 9
Cell03 0.000 V 0.000 V	System statu ODircharge V2.1.8/Agreement(165_V20_/	uter\BatteryMonitor ADDR_EN.xml loaded, Please close	H 0.0 %	Pack 2	Pack 10
Cell05 0.000 V Cell06 0.000 V	Othernargen OTemperatur			Pack 3	Pack 11
Cell07 Cell08	- Warn	· · · · · · · · · · · · · · · · · · ·	erature infomation	Pack 4	Pack 12
0.000 V 0.000 V			Battery temp1 0.0 ℃	Pack 5	Pack 13
Cell09 Cell10			Battery temp2 0.0 ℃		
0.000 V			Battery temp3 0.0 ℃	Pack 6	Pack 14
Cell11 0.000 V 0.000 V			Battery temp4 0.0 ℃	Pack 7	Pack 15
0.042			Ambient temp 0.0 ℃	0.1.0	
0.000 V 0.000 V	Transformed and the second		Power temp 0.0 ℃	Pack 8	
Cell15 Cell16	BMS information		1	Pack total	0
0.000 V	Software Ver: Protocol ve	rsion :		Cycle refresh	Multiple

Figure 3-3

#### 4. Communication Port Configuration

- 1)Port number (the upper computer will automatically identify the USB to 485 serial port number)
- 2) Baud rate : 9600
- 3)Click Connect (After successful connection, the upper computer displays the battery data.)

Battery Monitor V2.1.8			
🗄 😟 Import Protocol 📴 Load parameter 🔄	lindesis provident i 🗹 Real time i 🎔 Communication to 🖤 features fo	cord 🕸 Hintory arcord 🛙 🕲 Calibrate 🛛 🕭 Login 💷 🕅	🔮 Firware Update 💾 Sava layout 🕬 - 👻
Pack00			Protocol name: BMS-165 BMS Protocol version: 2.0
Cell voltage(V) <ul> <li></li></ul>	40 50 60 20 50c: 0.092 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bettery information     Remaining capacity 0.00 Ah     Total capacity 0.00 Ah     SOC 0.0 %     Rated capacity 0.00 Ah     Battery cycles 0 times     SOH 0.0 %     Bus voltage 0.00 V	Port config Port num Baud rate Conject Target config Pack addr Pack Pack 9 Pack 1 Pack 1 Pack 1 Pack 1 Pack 1 Pack 1 Pack 1
Cellog Cellog	Warn and Protect	Temperature infomation       Battery temp1     0.0 °C       Battery temp2     0.0 °C       Battery temp3     0.0 °C       Battery temp4     0.0 °C	Back     Back       Back     Back       Back     Back       Back     Back       Back     Back       Back     Back
	Num:COM14 E	Ambient temp 00°	Pack B Pack B Windows telefold and Windows

Figure 4-1

#### 5. Login

#### Account: admin Password: admin

k00				Protocol name: E	MS-165
II voltage(V)         Max voltage: C           Max voltage: C         Min voltage: 3.345 V           S.345 V         Min voltage: 3.316 V           Cell03         Cell04           3.317 V         Cell04           3.316 V         S.317 V           Cell05         Cell07           3.318 V         S.318 V           Cell11         Cell12           3.317 V         Cell14	System status Oicharge switch Charge switch Current Other and Protect Current calibration no	Battery voltage 53.10V	Battery infomation (Remain_capacity 24.82 Ah) (Total_capacity 50.00 Ah) (SOC 49.6%) (Nominal capacity 50.00 Ah) (Nominal capaci	Protocol venion: 2 Port config Port num Baud rate Connect Target config Pack 1 Pack 3 Pack 3 Pack 3 Pack 3 Pack 3 Pack 5 Pack 5	COM12 19200 Break Pack addr Pack 10 Pack 11 Pack 13 Pack 13 Pack 13 Pack 13
Cell15 3.317 V Cell16 3.317 V	Manufacturer: CANProtocol:Growalt Part mode	BMS11011CC		Pack total	0

#### 6. Loading parameters and uploading parameters

**Load parameter:** download parameter to BMS from upper computer **Upload parameter:** upload parameter to upper computer from BMS

#### **6.1 Upload Parameters**

When you use the upper computer at the first time, downloading parameters directly without checking is not allowed, you need to upload the parameters at first and then close them

Import Protocol 🕑 Load parameter 🛉 Upload parameter 🕅 Real time 🕸 Communication log 🕸 RealTime Record 🕸 History record 🕫 Calibrate 🔝 logn 🛄 SN *ack00 1	Sa Provare Update ₽ Sa Protocol name:	va layout 🔻 BMS-16S
- Cello 1 Aax voltage: C Max voltag	Protocol version:	2.0 COM12 19200 Break Pack addr Pack 9
Cell03     Cell04     1     Single high press 3.400     V     Download     Current sensor failure       3.297 V     3.300 V     2     Single low press 2.900     V     Download     Key switch failure     DN       3.300 V     3.300 V     3.300 V     3.00 V     Download     Cell08     Cell08     Cell09		Pack 10 Pack 11 Pack 12
Cellog     3.300 V     3.300 V     5     Overvoltage mor 3.400     V     Download       Cell11     Cell12     6     Monomer under 2.700     V     Download	Download	Pack 13 Pack 14 Pack 15
Cell13     Cell14       3.300 V     Sinformations       Cell15     Cell16       3.300 V     Sinformations       Cell15     Software Ver: 2.7       Protocol version: 2.0	Pack 3 Pack total	0 Multiple

#### 6.2 Modify parameters

- 1) Click "Upload Parameters" here to upload parameters from BMS
- 2) Change the internal BMS parameters and function switches
- 3) Click Set all to enable the modification

Note: The red numbers in the figure below indicate the operation sequence

		1	Protocol name:	BMS-16S
ell voltage(V) Max voltage: C Max voltage	ax voltage: C	A0 50 60  Parameter Manage  Battery voltage  Remaining Capacity 47.08 Ah	Port config	COM12 •
5.501 V	3.297 V	Save as 🞸 Set all 🖾 Close		Break
Voltage difference	4.000m\	Fuction switch		
Cell01 3.301 V 3.3	ell02 300 V	Num         Name         Value         Unit         Operate         Voltage sensing failure         ON           0         Single high volta         5.500         V         Download         Temperature sension failure         ON		Pack addr Pack 9
Cell03 3.297 V 3.3	ell04 300 V	1 Single high pres 3.400 V Download Current sensor falure		Pack 10
Cell05 3.300 V 3.3	ell06 300 V	2 Single low press 2.900 V Download 2 Cell pressure failure DN 3 Monomer low pr 3.100 V Download Cell pressure failure DN		Pack 11
Cell07 3.300 V 3.3	ell08 301 V	4 Monomer overv: 3.650 V Download	<b>.</b>	Pack 12
Cell09 3.300 V 3.3	ell10 300 V	5 Overvoltage mor 3.400 V Download Chars parameter Model:	Download	Pack 14
Cell11 3.301 V 3.3	ell12 300 V	6 Monomer unde 2.700 V Download		Pack 15
Cell13 3.300 V 3.3	ell14 300 V	- BMS informations	Pack 8	
Cell15 3.300 V 3.3	ell16 300 V	Manufacturer: CANProtocol:Pylon Part model: Software Ver: 2.7 Protocol version: 2.0	Pack total	0 Multiple

#### **6.3 Load Parameters**

- 1) Click Load Parameters (step 1 below)
- Chose the target parameter document (step 2 below) and click open(step 3 below)
- 3) Click **Set All**(step 4 below)
- 4) Click **Close** (step 5 below)after prompting success Parameters have been configured OK

Battery Monitor V2.1.8					- 0 X
🕴 👱 Import Protocol 🛛 📴 Load p	parameter 🛧 Upload parameter	🗄 🗹 Real time 🗄 🖤 Communication log 🛛 🖤 Rea	ITime Record 🐺 History	record 🗄 🐻 Calibrate 🕯 💩 Login 🛄	SN 🔮 Firware Update 🔛 Sava layout 🔻
Pack00	1				Protocol name: BMS-16S
Cell voltage(V)	€ 打开			×	Protocol version: 2.0
Max voltage: C Max	<sup>ix voltaç</sup> ← → × ↑ ■>	此电脑 > 桌面 >	v Ö		- Port config
vlax voltage− Vi	in volta 组织 ▼ 新建文件夹	Ę		i= • 💷 🔞	Port num COM21  Baud rate 19200
3.333 V	3.333 V	^ 名称 ^	修改日期	类型 大小	Connect Break
Voltage difference	● 図片 0.000r	EMC	2022/3/20 19:56	文件夹	
Cell01 Cel	Ⅲ2 ↓ 下载	■ 町) 質料	2022/3/4 9:24 2022/3/22 14:41	又件来 文件夹	Target config Pack addr
3.333 V 3.33	33 ∨ - ♪ 音乐	拓嘉参数要求	2022/3/16 9:30	文件夹	Pack 1 Pack 9
Cell03 Cel	- 桌面 	■ 新建义件夹 1 48100-1101-10C-SD16E3-15S	2022/3/20 16:56	XML文档 11 KB	
3.333 V 3.33	33 V 🗸 D (D:)	測试部 (192.168.1.10) - 快捷方式	2022/2/21 17:32	快捷方式 2 KB	Pack 2 Pack 10
Cell05 Cel	→ 资料 (E:) 新加業 (Fi)	副 新加卷 (A) - 快捷方式	2022/2/21 17:52	快速方式 2 KB	Pack 3 Pack 11
3.333 V 3.33	33 V			-	
Cell07 Cel	108	v (		>	Pack 4 Pack 12
3.333 V 3.33	33 V	文件名(N): 48100-1101-10C-SD16E3-15S	~	parameter file(*.xml) ~	Pack 5 Pack 13
Cell09 Cel	ll10			打开( <u>O</u> ) 取消	
5.555 V 5.55	>> V			Battery temp3 25.0 °C	Pack 6 Pack 14
Cell11 Cel 3,333 V 3,33	1112 33 V			Battery temp4 25.0 °C	Pack 7 Pack 15
				Ambient temp 23.8 °C	
Cell13 Cel 3.333 V 3.33	4114 33 V			Power temp 24.2 °C	Pack 8
	- BMS informat	ion 😋			Pack total 0
Cell15 Cel 2 222 V 2 2 2	Manufacturer	: CANProtocol:Pylon Part model:			<b>○</b> ♥ •,
•					^ 😰 🤮 🍽 印) 🦟 印 📁 12:21



	O Parameter Manage		Y Firware Update 💾 Sava layout 👻
ck00	🗃 Save as 🛷 Set all 🔟 Close		Protocol name: BMS-165
Cell voltage(V)	Int parameter	Fuction switch	Protocol version: 2.0
Max voltage	Num Name Value Unit Operate	Voltage sensor invalidation	- Port config
Vlax voltage 3.333 V	0 Monomer high v 3.500 V Downloac	Temperature sensor invalidation	Port num COM21 Baud rate 19200
Voltage diffe	1 Monomer high p 3.400 V Download	Current sensor invalidation	Connect Break
Cell01	2 Monomer low pr 2.90 Successful execution	n ofSetPack#0all parameterscommand	Target config 🗌 Pack addr
	3 Monomer low pr 3.00 Cancel	Close	Pack 1 Pack 9
Cell03 3.333 V	4 Monomer overvc 3.850 V Downloac	Charge switch invalidation	Pack 2 Pack 10
Cell05 3.333 V	5 Monomer overvc 3.400 V Downloac	Chars parameter	Pack 3 Pack 11
Cell07 3.333 V	6 Monomer under 2.500 V Download	Model: 1101SD16E3 Download	Pack 4 Pack 12
			Pack 5 Pack 13
Cell09 3.333 V	Cell10 3.333 V	Battery temp3 25.0 °C	Pack 6 Pack 14
Cell11 3.333 V	Cell12 3.333 V	Battery temp4 25.0 °C	Pack 7 Pack 15
	Collina I	Ambient temp 25.2 °C	Pack 8

#### 7. Communication Protocol Configuration

Click **CAN**, Select the corresponding CAN protocol according to the inverter type

1) 5 options: Pylon / Growatt / Victron / Sofar / Luxpower

Protocol Type	Supported Inverter Brands	
Pylon	Pylon/Goodway	
Growatt	Growatt	
Victron	Victron	
Sofar	Sofar	
Luxpower	Luxpower	

See Figure 7.1

- after switching the protocol, confirm whether the protocol is switched successfully, refresh the protection board information See Figure 7.2
- the corresponding manufacturer information will displayed in "BMS information" frame See Figure 7.3

G Battery Monitor V2.1.6				
🛿 👱 Import Protocol 🛛 🕞 Load parameter 🔺 Upload	parameter 🗄 🗹 Real time 🗄 🖤 Communication log 🖤 RealTime Record 🖤 H	istory record 🛛 🖏 Calibrate 🛛 🍰 Login 🛄 SN 😒 Finware Update 🗎 Sav	a layout Language - CAN	<b>-</b> 485 <b>-</b>
Pack00			Protocol name:	Pylon Growalt
Cell voltage(V)	Batte	Battery infomation	Protocol version:	Victron
Max voltage: C1 _ Max voltage: C5	40 50 60		Port config	Sofar
Max voltage Min voltage	30 70 5	3.10V	Port num	Luxpower -
3.345 V 3.316 V	20 80	(Total_capacity 50.00 Ah)	Baud rate	19200 🔹
	soc: 49.6%	(SOC 49.6 %)	Connect	Break
Voltage difference 29.000mV	10 Mode: Discharg		Target config	ack addr
Cell01 Cell02		160A		
3.345 V 3.317 V	0 00 00	(Battery_Cycles 0 times)	Pack 1	Pack 9
Call02 Call04		(SOH 100.0 %)		
3.317 V 3.317 V	System status	Rucyaltage 52 10 V	Pack 2	Pack 10
	ODischarge switch OCharge switch OCurrent limit switch OTemperatu	ure control switch		
Cell05 Cell06			Pack 3	Pack 11
3.310 V				
Cell07 Cell08	warn and Protect	lemperature infomation	Pack 4	Pack 12
3.316 V 3.317 V	Current calibration not done	Battery_Tmp1 19.0 °C	Deale 5	Deals 12
Call00		Battery Tmp2 19.2 °C	Packs	Pack 13
3.317 V 3.317 V			Pack 6	Pack 14
		Battery_Imp3 19.1 °C		
Cell11 Cell12		Battery_Tmp4 19.1 °C	Pack 7	Pack 15
3.317 4		(Ambient_Tmp 22.1 °C )		
Cell13 Cell14		Davies Terrs 20.5.05	Pack 8	
3.317 V 3.318 V	BMS information	Power_Imp 20.5 °C		
Cell15 Cell16	Manufacturer CANDectorel Converts Det model DMC1101	1100	Pack total	0
3.317 V 3.317 V	Software Ver: 2.6 Brotocol version: 2.0			
	Solumere ver. 2.0 Protocol version: 2.0		Cycle refresh	Multiple
			1	
Online TXD OK	ERR F:支装软件上位机/BattaryMonitor V2.1.6	Agreement\16ProtectWarnNormalColor mark-Upper limit	Lower limit	n RealTime Record 0

Figure 7.1

© Battery Monitor V2.1.6	
😰 Import Protocol 😰 Load parameter 🛉 Upload parameter 🕴 🗹 Real time 🖤 Communication log 🖤 Real Time Record 🖤 History record 👫 Calibrate 🎒 Login 🏢 SN 🔮 Timure Update 🗎 Sav	a layout Language - CAN - 485 -
Pack00	Protocol name: BMS-16S
Peccod         Image: Classic	Protocol name: BMS-165 Protocol version: 2.0 Port config Port config Port config Connect Break Target config Packed P
3.316 V Software Ver: 2.6 Protocol version: 2.0	Cycle refresh Multiple
Online TXD OK ERR O F\%분했가\Lt2f\/BattaryMonitor V2.1.6/\Agreement\16	Lower limit Unknown RealTime Record 0

Figure 7.2

iport Protocol   Erot	oad parameter 🛛 🌩 Upload parameter 🗧 🚩 Real time 🗄 🐨 Communication log 👘 Real		and a second sec	NOUT I ADDUIADE Y I AN Y AND Y
k00		Time Record 97 History record : 40 Callo	race ; 🔊 codini (milit) prv 🖉 universe obranice 🗖 pava i	Protocol name: BMS-165
ell voltage(V)		- Battery voltage	Battery infomation	Protocol version: 2.0
Max voltage: C1	Max voltage: C2 40 50 60	52 001/	(Remain_capacity 24.80 Ah)	Port config
Max voltage 3.345 V	3.316 V 20	53.09V	(Total_capacity 50.00 Ah)	Baud rate
oltage difference	29.000mV soc: 49.6%	Current	SOC 49.6 %	Connect Break
Cell01	Cell02	- <sup>90</sup>	(Nominal capacity 50.00 Ah)	Target config Pack addr Sett
3.345 V	3.316 V 0 -	-100 -0.59A	Battery_Cycles 0 times	Pack 1 Pack 9
Cell03 3.316 V	Cell04 3.316 V System status		(SOH 100.0 %)	Pack 2 Pack 10
Callos	ODischarge switch OCurrent limit sv	vitch OTemperature control switch	Bus voltage 53.10 V	Dark 2 Dark 11
3.316 V	3.317 V			Pack 3 Pack 11
Cell07	Cellos 2317/		Temperature infomation	Pack 4 Pack 12
5.510 V	Current calibration not do	one	Battery_Tmp1 19.0 ℃	Pack 5 Pack 13
Cell09 3.317 V	Cell10 3.317 V		Battery Tmp3 19.0 °C	Pack 6 Pack 14
Cell11	Cell12		Battery_Tmp4 19.1 °C	Dark 7 Dark 15
3.317 V	3.317 V		Ambient_Tmp 22.3 ℃	Pack 12
Cell13 3.316 V	Cell14 3.317 V		Power_Tmp 20.6 °C	Pack 8
Cell15	Cell16 Manufacturer: CANProtocol:Pylon Part mod	el: BMS11011CC		Pack total 0
3.317 V	3.316 V Software Ver: 2.6 Protocol	version: 2.0		Cycle refresh Multiple
TXD	OK ERR Fl安装软件上在划lBatt	arymonitor v2.1.b\Agreement\16	otect Warn Normal Color mark-Upper limit	Lower limit Unknown RealTime Record 0
		Figure 7.3		
			$\frown$	
	BMS information			
	Manufacturer: CANProtoco	Growalt	Destandal	DMC11011CC
	Manufacturer, CAMProtoco	1.Growant	Part model:	BMISTIUTICE
	Manufacturer. CANProtoco		Part model:	BMISTIOTICC
	Software Ver: 2.6	orowait	Protocol version:	2.0
	Software Ver: 2.6	orowait	Part model: Protocol version:	2.0
	Software Ver: 2.6	iorowait	Protocol version:	2.0
	Software Ver: 2.6		Part model: Protocol version:	2.0
	BMS informatio		Part model: Protocol version:	2.0
	BMS information		Protocol version:	2.0
	BMS information	I:Victron	Part model: Protocol version: Part model:	BMS11011CC BMS11011CC
	BMS informations Manufacturer: CANProtoco	l:Victron	Part model: Protocol version: Part model:	BMS11011CC BMS11011CC
	BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version:	2.0 BMS11011CC 2.0
	BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version:	2.0 BMS11011CC 2.0
	BMS informations Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version:	BMS11011CC 2.0 BMS11011CC 2.0
	BMS informations Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version:	BMS11011CC 2.0 2.0
	BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version:	BMS11011CC 2.0 2.0
	BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information BMS information	l:Victron	Part model: Protocol version: Part model: Protocol version:	BMS11011CC 2.0 BMS11011CC 2.0
	BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Manufacturer: CANProtoco	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model:	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC
	BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0
	BMS information Software Ver: 2.6 Manufacturer: CANProtoco Software Ver: 2.6 Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version:	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0
	BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version:	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0
	BMS information Software Ver: 2.6 Manufacturer: CANProtoco Software Ver: 2.6 Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version:	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0
	BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version:	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0
	BMS information BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version:	2.0 BMS11011CC 2.0 BMS11011CC 2.0
	BMS information BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version:	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0
	BMS information BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version: Part model:	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC
	BMS informations Manufacturer: CANProtoco Software Ver: 2.6 BMS informations Manufacturer: CANProtoco Software Ver: 2.6 BMS informations Manufacturer: CANProtoco Software Ver: 2.6	l:Victron l:Sofar	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version: Part model: Part model:	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0
	BMS information BMS information BMS information BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Manufacturer: CANProtoco Software Ver: 2.6	l:Victron l:Sofar	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version: Part model: Protocol version	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0 2.0
	BMS information BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Manufacturer: CANProtoco Software Ver: 2.6 BMS information Software Ver: 2.6	l:Victron	Part model: Protocol version: Part model: Protocol version: Part model: Protocol version: Part model: Protocol version	BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0 BMS11011CC 2.0

Figure 7.4(other manufacturer information)

### 8. Display Interface Introduction

After successful connection, the red box below is the display Interface Introduction

See Figure 8-1

Detailed introduction see Table 8-1

k00			Protocol name: BMS-16S
all voltage(V) Max voltage: C Max voltage: C Max voltage: C Max voltage 3.302 V	40 50 60 30 6 70 20 50 50 60 52.79	Battery infomation Remain_capacity 49.87 Ah (Total_capacity 100.00 Ah) (SOC 49.8%)	Protocol version: 2.0 Port config Port num Baud rate Connect Break
Cell01 3.302 V Cell02 3.299 V	10 <b>fode:</b> Standt -90 <b>Ourent</b>	A (Nominal capacity 50.00 Ah) Battery_Cycles 4 times	Target config Pack addr
Cell03 3.300 V Cell05 2.300 V Cell06 3.300 V	System status Discharge switch OCharge switch Ocurrent limit switch OTemperature control switch	(SOH 100.0 %) Bus voltage 52.79 V	Park 2 Park 10 Park 3 Park 11
Cell07 3.300 V 3.299 V	Warn and Protect	Temperature infomation	Pack 4 Pack 12 Pack 5 Pack 13
Cell09 3.298 V Cell10 3.298 V Cell12		Battery_Tmp2 19.9 ℃	Pack 6 Pack 14
Cell13 Cell13 Cell14 2 300 V		Ambient_Tmp 22.7 °C	Pack 7 Pack 15 Pack 8
Cell15 3.301 V 3.297 V	BMS informations Manufacturer: SH-EnergyTCH Co.,Ltd Part model: Software Ver: 2.5 Protocol version: 2.0		Pack total 0

Figure 8-1

Name	Description	Notes	Figure
Max voltage	Highest voltage cell		Max voltage 3.302 V
Min voltage	Lowest voltage cell		Min voltage 3.297 V
Voltage difference	Voltage difference between the max voltage and min voltage		Voltage difference 5.000mV

Battery voltage	Battery total voltage		Battery voltage
Current	Charge current Or Discharge current (negative value)		0.00A
Remain_ capacity	Current battery capacity	Upload parameter-Num59 can set current capacity	(Remain_capacity 49.87 Ah)
Total_capacity	Actual capacity after full battery	<i>×0</i> .	(Total_capacity 100.00 Ah)
SOC	State of charge	Remain_capacity/Total_cap acity*100%	(SOC 49.8 %)
Nominal_ capacity	Rate capacity.	Upload parameter-Num58 can set capacity	(Nominal capacity 50.00 Ah)
Battery_cycles	Cycle number	The number of cycles will be increased by one when the cumulative discharge capacity reaches 80% of the full capacity	(Battery_Cycles 4 times)
SOH	state of health		(SOH 100.0 %)
Bus voltage	Port voltage. Detection of external voltage	When there is no external connection, the bus voltage is equal to the total battery voltage	Bus voltage 52.79 V

Discharge switch	Discharge switch indicator	Green: switch connected Gray: switch disconnected	ODischarge switch
Charge switch	Charge switch indicator	Green: switch connected Gray: switch disconnected	Charge switch
Current limit switch	Current limit switch indicator	Green: switch connected Gray: switch disconnected	OCurrent limit switch
Temperature control switch	Temperature control switch indicator	Green: switch connected Gray: switch disconnected	OTemperature control switch
Warn and Protect	BMS warning and protect display area		Warn and Protect
Battery_Temp1	Cell temperature1 value		Battery_Tmp1 19.5 ℃
Battery_Temp2	Cell temperature2 value		Battery_Tmp2 19.9 ℃
Battery_Temp3	Cell temperature3 value		Battery_Tmp3 20.0 ℃
Battery_Temp4	Cell temperature4 value		Battery_Tmp4 29.1 °C
Ambient_Temp	Ambient temperature value		Ambient_Tmp 22.7 °C
Power_Temp	Power temperature value		Power_Tmp 20.8 °C

#### 9. Parallel Mode

1) Parallel pack selection

When several batteries (max to 16) are combined, ensure that the corresponding address dialed by the BMS is consistent with the address set (**pack x**) by the upper computer (click the pack number to light up or greyed the icon).

See Figure 9-1

2) When confirming the number of parallel machines, click connect to upper computer and select **Cycle Refresh**. The upper computer can see the number of parallel machines and pack refresh data

See Figure 9-2

See Figure 9-3

3) On the upper computer interface, you can click **Multiple** to see each group of PACK data

<b>c</b> 01				Protocol name:	BMS-16S
Il voltage(V) Max voltage: C Max voltage: C Min voltage: 3.290 V Voltage difference 15.000mV Cell01 3.296 V Cell02 3.297 V Cell03 3.297 V Cell04 3.298 V Cell04 3.298 V	30         40         50         60         70           20         soc:         50.0%         80           10         fode:         Standt         90           0         -         -         -         10	Battery voltage 52.76V Current 0.00A	Battery infomation         Remaining capacity 49.98 Ah         Total capacity 100.00 Ah         SOC       49.9 %         Rated capacity 100.00 Ah         Battery cycles       2 times         SOH       100.0 %         Bus voltage       52.80 V	Protocol varies	2.0 COM4 19200 Break Pack addr Pack a
Cellos         3.297 V           3.297 V         3.297 V           Cellos         3.299 V           Cellos         3.299 V           Cellos         3.291 V	OTemperature control switch Warn and Protect None warn	¥	Temperature infomation Battery temp1 22.8 °C Battery temp2 22.8 °C Battery temp2 22.9 °C	Pack 3 Pack 4 Pack 5 Pack 6	Pack 1 Pack 1 Pack 1
Cell11 3.299 V Cell12 3.305 V Cell14 3.298 V 3.298 V	BMS informations		Battery temp4 23.1 °C Ambient temp 23.8 °C Power temp 24.1 °C	Pack 7 Pack 8	Pack 1
Cell15 3.298 V 3.298 V	Manufacturer: CANProtocol:Pylon Part model: Software Ver: 2.7 Protocol ve	: 1101SD17G1 rsion: 2.0		Vack total	2 Multip

Figure 9-1

In figure 9-1, there are 2 pack icons display in the pack frame, this means there are 3 packs in parallel status. Only the slave pack can be displayed in the pack frame.

Battery Monitor V2.1.8			- 0
import Protocol I Load parameter	Upload parameter   🗹 Real time   🖤 Communication log   💱 RealTime Record   🧊 Histor	y record 🕴 👸 Calibrate 🕴 🥭 Login 🕅 🕅 SN	Finware Update  Sava layout CAN -     Protocol name: BMS-16S
Cello voltage(V) Max voltage: C Max voltage: C Min voltage: C Min voltage: C Min voltage: C Min voltage: C Min voltage: C Jacob V Cello 2 Jacob V Cello 2 Cello 2 Jacob V Cello 2 Jacob V Cello 2 Jacob V Cello 2 Jacob V Cello 2 Cello 2	40 50 60 20 soc: 50.0% 10 lode: Standt 0100 System status Obichargie switch Charging switch Current limit switch	Battery infomation       Remaining capacity 49.98 Ah       Total capacity 100.00 Ah       SOC     49.9 %       Rated capacity 100.00 Ah       Battery cycles     2 times       SOH     100.0 %       Bus voltage     52.82 V	Protocol version: 2.0 Port config Port num Baud rate Connect Break Target config Pack addr Pack 2 Pack 10 Pack 10
Cellos         3.297 V           3.297 V         3.297 V           Cello7         Cello8           3.297 V         3.299 V           Cell09         Cell10           3.290 V         3.301 V           Cell11         Cell12           3.299 V         3.305 V           Cell13         Cell14	OTemperature control switch Warn and Protect None warn	Temperature infomation Battery temp1 22.3 °C Battery temp2 22.2 °C Battery temp3 22.8 °C Battery temp4 22.9 °C Ambient temp 24.1 °C	
3.298 V 3.299 V Cell15 Cell16 3.298 V 3.298 V	BMS informations Manufacturer: CANProtocol:Pylon Part model: 1101SD17G1 Software Ver: 2.7 Protocol version: 2.0 ERR ELupper computer/BatteryMonitor Protect War	Power temp 24.1 °C	Pack total 2 Cycle refresh Multiple wer limit Unknown RealTime Record
	Figure 9-2	9	



Figure 9-3

#### **10.Firmware update**

ck00						Protocol name:	BMS-16S
Cell voltage(V) Max voltage: Max voltage 0.000 V 0.	voltage: voltage 000 V	30 40	50 60 70 80	O.OOV	Battery infomation (Remaining Capacity 0.00 A (Total Capacity 0.00 Ah)	Protocol version: Port config Port num Baud rate	2.0 COM12 19200
Voltage difference	2.000mV 10	🔡 Firmware Upda	te		- 0 × %	Connect	
Cell01 Cell0 0.000 V 0.000	02 0V	Set Port:	COM1	Pack Num: P	Ah ack0 v	Pack 1	Pack addr
Cell03 0.000 V 0.000	System System	BaudRate:	19200	2	% )V)	Pack 2	Pack
Cell05 Cell0 0.000 V 0.000		Parity:	None	신 지		Park 3	Pack
Cell07 0.000 V 0.000		StopBits:	One	ပံ Open	D Reset	Pack 4	Pack
Cell09 Cell1 0.000 V 0.000		Program Up	date			Pack 5	Pack
Cell11 Cell1 0.000 V 0.000				0.0%		Pack 7	Pack
Cell13 0.000 V 0.000			1	2	Power Tmp 0.0 °C	Pack 8	
Cell15 0.000 V 0.000	BMS Man	information	ocol:Pylon Part mode	4: 1101SD17G1		Pack total	0

#### **10.1** Open Firmware Update (BMS boot state)

- 10.2 Use USB to 485 communication line, select the corresponding port, select the baud rate of 9600, and click Open.
- 10.3 Select folder Jump out of corresponding box choice the target program (This program. *ehex* format)

Port:	COM3	~	1	Pack Num:	Pack0		~
BaudRate:	19200	~	2				
Parity:	None	~					
DataBits:	8	~		3	_		
StopBits:	One	~		<b>ଓ</b> Open		ື Re	set
Program Up	odate						

Port:	COM3	~	Pack Num:	Pack0		~
BaudRate:	19200	~				
Parity:	None	~				
DataBits:	8	~				
StopBits:	One	~	් Close		'D Rese	et
rogram Up	date					
	11101[EW26-I	IPSET Def	ault01 210224	her	Do	wold

**10.4** Click **download** and the progress bar will appear (When you report an error, try pressing the reset button or downloading it several times)

- ·	60142	1000	
Port:	COM3	~	Pack Num: Pack0
BaudRate:	19200	~	
Parity:	None	~	
DataBits:	8	~	
StopBits:	One	~	Close D Reset
Program Up	date		
lease sele	1101[FW26-U	JPSET Def	ault01 210224].ehex 🕒 🛃 Downlo
	•		
			1 1077
		0.	.0%
		0.	.0%
Firmware Upda	te	0.	
Firmware Upda	te	0.	
Firmware Upda Set Port:	te COM3	~	Pack Num: Pack0
Firmware Upda Set — Port: BaudRate:	te COM3 19200		Pack Num: Pack0
Firmware Upda Set Port: BaudRate: Parity:	te COM3 19200 None	~ ~	Pack Num: Pack0
Firmware Upda Set Port: BaudRate: Parity: DataBits:	te COM3 19200 None 8		Pack Num: Pack0
Firmware Upda Set Port: BaudRate: Parity: DataBits: StopBits:	te COM3 19200 None 8 One		Pack Num: Pack0 V
Firmware Upda Set Port: BaudRate: Parity: DataBits: StopBits: Program Up	te COM3 19200 None 8 One date		Pack Num: Pack0 V

**10.5** after the program upgrade **OK**, prompt download successful proof that the program upgrade OK.



**Note:** This upgrade software can also be upgraded according to the corresponding address. If the address of BMS is consistent with the address of Pack number, it can be upgraded.

Port:	COM3	~	Pack Num:	Pack1	~
BaudRate:	19200	~			
Parity:	None	~			
DataBits:	8	~			
StopBits:	One	~	<b>ഗ</b> Open	5	Reset
Program Up	date				

#### 11.Real Time Record

The real time record will record all the real time information of the battery. The function can be used for automatic monitoring of battery working status

- 1、 Click **Real Time** to enable real time record See figure 11-1
- 2、 Click Real Time Record to edit the detail information

#### See figure 11-1/11-2/11-3

				- E II
1 🖄 🕞 Load parameter 🔶 L	Jpload parameter   🗹 Real time   🕸 Comm	sunication log 🔮 RealTime Record 🖗	History record	SN 👱 Friend College 🖽 Sava layout CAN - 👻
Pack00	<u> </u>	<u> </u>		Protocol name: BMS-155
Cell voltage(V)	1	Battery voltage	Battery infomation	Protocol version: 2.0
Max voltage: C Min voltage: C	40 50 60	52 79	Remaining capacity 74.81 Ah	Port num COM4 -
3.300 V - 3.299 V	30		Total capacity 150.00 Ah	Baud rate 19200 -
(Voltage difference 1.000mV)	soc: 49.9%	Current	(SOC 49.8 %)	Connect Break
C.103	10de: Standt	290	(Rated capacity 150.00 Ah)	-Target config 🛛 Pack addr
3.299 V 3.300 V	0	-100 0.00A	Battery cycles 1 times	Pack 1 Pack 9
Cell03 Cell04			SOH 100.0 %	
3.300 V 3.300 V	ODischarge switch OCharging switch	OCurrent limit switch	Bus voltage 52.79 V	Pack 2 Pack 10
Cell05 Cell06	OTemperature control switch			Pack 3 Pack 11
3.299 V 3.299 V	Warn and Protect		Temperature infomation	
Cell07 Cell08 3.299 V 3.300 V	None warn		(Battery temp1 18.8 °C	
Callon Callon	None want		Battery temp2 19.7 °C	Pack 5 Pack 13
3.299 V 3.299 V			Battery temp3 18.8 °C	Pack 5. Pack 14
Cell11 Cell12			(Battery temp4 19.7 °C	
3.300 V 3.300 V			Ambient temp 20.0 °C	
Cell13 Cell14 3.299 V 3.299 V			Power temp 18.4 °C	Pack 8
Introduction in the second second	BMS information			Pack total 0
3.299 V	Manufacturer: CANProtocol:VIC &SMJ Software Ver: 2.8	Part model: BMS11011CC Protocol version: 2.0		
				Cycle retresh Multiple
	En Enupper com	puter\BatteryMonitor V  Protect	Warn Normal Color mark-Upper limit	Lower limit Unknown RealTime Record 1
		Figure 11-1		
		rigule II-I		
Real time record     Stop □ □				- 6 C
Num Pack# Date Tim 1 0 2022-03-22 11st	e Mode Warn Cel 08:39 Standby None	01(V) Cell02(V) Cell03(V) 3.209 3.300 3.30	Cell04(V)         Cell05(V)         Cell06(V)         Cell0           00         3.300         3.299         3.299	27(V) Cell08(V) S ₩ * 0 ♦ 60 4 ¥ 10 1 + 12
2 0 2022-03-22 110 3 0 2022-03-22 110 4 0 2022-03-22 110	28141 Standby None 28244 Standby None 28245 Standby None	3299 3.300 3.30 3.209 3.209 3.30 3.299 3.299 3.29	00 3.300 3.299 3.299 00 3.300 3.299 3.299 99 3.301 3.299 3.299	5.299 5.300 5.299 1 1.299 1.300 1.299 1 3.299 1.300 1.299 1
5 0 2022-03-22 11s 6 0 2022-03-22 11s	08:48 Standby None 08:50 Standby None	3.209 3.209 3.21 3.299 3.299 3.29	99 3.300 3.299 3.299 99 3.301 3.299 3.299	3,299 3,300 3,299 3 3,299 3,300 3,299 1
7 0 2022-03-22 114 8 0 2022-03-22 114	08:52 Standby None 08:55 Standby None	3.209 3.209 3.30 3.299 3.300 3.30	00 3.301 3.300 3.299 00 3.300 3.300 3.299	8.299 8.300 8.300 E 8.299 8.300 8.299 E
9 0 2022-03-22 114 10 0 2022-03-22 114	08:57 Standby None 08:59 Standby None	3.299 3.299 3.30 3.299 3.299 3.30	00 3.300 3.299 3.299 00 3.300 3.299 3.299	3.299 3.300 3.299 5 3.299 3.300 3.299 3

Figure 11-2

Click **STOP** to stop record.

	Date	Time	Mode	Warn	Cell01(V)	Cell02(V)	Cell03(V)	Cell04(V)	Cell0	5(V)	Cell06(V)	Cell07(V)	Cell08(V)	Gan	
1	0 2022-03-22	11:08:39	Standby	None		3.299	3.300	3.300	3.300		3.299	3.299	3.299	3.300	3.299
2	0 2022-03-22	11:08:41	Standby	None		3.299	3.300	3.300	3.300		3.299	3.299	3.299	3.300	3.299
3	0 2022-03-22	11:08:44	Standby	None		3.299	3.299	3.300	3.300		3.299	3.299	3.299	3.300	3.299
4	0 2022-03-22	11:08:46	Standby	None		3.299	3.299	3.299	3.301		3.299	3.299	3.299	3.300	3.299
5	0 2022-03-22	11:08:48	Standby	None		3.299	3.299	3.299	3.300		3.299	3.299	3.299	3.300	3.299
6	0 2022-03-22	10 另存为								×	3.299	3.299	3.299	3.300	3.299
7	0 2022-03-22										3.300	3.299	3.299	3.300	3.300
8	0 2022-03-22	$\leftarrow \rightarrow - \uparrow$	🚞 « upper con	puter > Batteryf	fonitor V2.1.8 > Ag	eement >	×.	C 2 液素*Ag	preement"		3.300	3.299	3.299	3.300	3.299
9	0 2022-03-22										3.299	3.299	3.299	3.300	3.299
10	0 2022-03-22	编织 • 新建文8	挟						= -	0	3.299	3.299	3.299	3.300	3.299
11	0 2022-03-22		88	^	博改日	48	#0	大小			3.299	3.300	3.299	3.300	3.299
12	0 2022-03-22	2 M TER									3.299	3.299	3.300	3.300	3.299
15	0 2022-03-22	> 🔣 肥片	EMU120	1	2022/3	/18 9:12	文件夹				3.299	3.299	5.299	3.300	3.299
14	0 2022-03-22	10 114	EMU200	0	2022/	/18 9:12	文件夹				2-699	3.699	3-299	3.300	3.299
15	0 2022-03-22	7			10000						3.299	3.299	3.299	3.300	3.299
10	0 2022-03-22	> 🛓 下戦	BINARE		2022/	/18.9:12	文件两				0.4.97	0.4.99	2.4.77	5,500	3.699
		文件名(N): (保存供型(T):	Grouped data 2022 xis files (*.xis)	0322_1109.xls						~ ~					
		Contraction of the second second						保存(5)	Riff						
		. Bullety an all						total (a)							
		▲ 隐藏文件夹			_				-	ć					
		▲ 陽離文件夹													

Figure 11-3

Click **RUN** to record again.

Click **Clear** to empty the record frame. Click **Save** to export the record document.