



# Intelligent Battery Charging Programmer Software User Manual



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# Intelligent Battery Charging Programmer Software User Manual

## 1. Introduction :

For MEAN WELL's intelligent battery chargers, Charging curve programmable suitable for models: ENC-120/240/360,NPB-450/750/1200/ 1700,DRS-240/480,HEP-1000,HEP-2300-55,RPB/RCB-1600,DBU/DBR-3200/NCP-3200.

## What function is provided?

Charging parameter adjustment: Values of constant current (CC), constant voltage (CV), float voltage (FV) and tapper current (TC) can be set and adjusted.

Battery temperature compensation: Various charging voltage compensation is provided for battery at different temperature conditions. Timeout setting: Fully programmable timeout during stages enables to be set to shutdown the charger to prevent battery over-charge.

## 2. Prerequisites :

#### 2.1 System requirements :

- Inter Pentium 4 1GHz
- 1 GB memory
- One free USB port
- At least 200 MB of free disk space
- \* Monitor with a resolution of 800 x 600 pixels
- Microsoft Window 7, Microsoft Window 10
- Microsoft .NET Framework 4.0 or higher

#### 2.2 Hardware installation :

Prior to program a driver, the connection between driver and PC must be established first via the Programmer shown in the figure below. The following steps are suggested:

#### ENC series:

- 1. Remove the ENC from AC.
- 2. Connect Programmer and PC with the enclosed USB cable. LED (GREEN) of the Programmer is ON.
- 3. Connect the communication cable to CN31 of the ENC from the Programmer.

#### RPB/RCB \ DBR/DBU \ NCP series:

- 1. Remove the RPB/RCB DBR/DBU from AC.
- 2. Connect Programmer and PC with the enclosed USB cable. LED (GREEN) of the Programmer is ON.
- 3. Connect the communication cable to CN1 and CN500 of the RPB(DBU) from the Programmer; RCB(DBR) requires working with a RHP rack, link the cable to JK1 of the rack.
- 4. Apply AC to the charger.
- 5. LED of the Programmer will light in ORANGE once connection is established successfully.

Note : For the detail of ENC/RPB communication cable, please refer to SBP-001 specification.

#### HEP-1000 series/HEP-2300-55:

1.Remove the HEP from AC.

- 2. Connect Programmer and PC with the enclosed USB cable. LED (GREEN) of the Programmer is ON.
- 3.Connect the communication cable to CN71 of the HEP from the Programmer.
- 4. Apply AC to the charger.
- 5. LED of the Programmer will light in ORANGE once connection is established successfully.

#### NPB series:

- 1.Remove the NPB from AC.
- 2.Connect Programmer and PC with the enclosed USB cable. LED (GREEN) of the Programmer is ON.
- 3.Connect the communication cable to CN71 of the NPB from the Programmer.
- 4. Apply AC to the charger.

5. LED of the Programmer will light in ORANGE once connection is established successfully.

#### DRS series:

1.Remove the DRS from AC.

- 2. Connect Programmer and PC with the enclosed USB cable. LED (GREEN) of the Programmer is ON.
- 3.Connect the communication cable to CN71 of the DRS from the Programmer.
- 4. Apply AC to the charger.
- 5. LED of the Programmer will light in ORANGE once connection is established successfully.



	Communication Cable	
Series name	Connector	Communication Cable
ENC-120/180/240/360	CN31	SBP#4
RCB-1600 DBR-3200/NCP-3200	JK1	SBP#2
RPB-1600/DBU-3200	CN1, CN500	SBP#3
HEP-1000 NPB-450/750/1200/1700	CN71	SBP#1
HEP-2300-55	CN11	SBP#1
DRS-240/480	RJ45	SBP#2

#### 2.3 Software installation :

The Intelligent Battery Chargers Programmer Software is accessible via MEAN WELL and authorized distributors. After the download, it is packed and appears as ZIP file in the download folder.

The following steps are suggested:

- 1. Right-click at the ZIP file and select "Extract All...".
- 2. Choose a folder to save the software and click Extract.
- 3. If necessary, unplug the USB cable and install USB driver (PL2303\_Proli\_c\_DriverInstaller\_v1417.exe) and plug-in USB cable again.
- 4. If necessary, install the Framwork4 (dotNetFx40\_Full\_x86\_x64.exe).
- 5. Double click the Smart Timer Dimming Program.exe.

#### 3. User Interface :

3.1 Basic layout



#### 3.1.1 Tool bar



The toolbar provides instant access to the most important functions. The icons from left to right are: Main Menu: Return to Main Menu

Open: Load an existing configuration Save: Save the current configuration

Save. Save the current configuratio

Save as: Save the current configuration to a new file Open Connection: Connect PC to Programmer via COM port

Close Connection: Disconnect PC from Programmer

Check Model: Reconnect the same model but different voltage type (e.g. ENC-120-12/24/48)

Upload to PC: Read the configuration from the charger

Download to Device: Send the current configuration to the charger

Information: Version of software and programmer

#### 3.1.2 Function tab

The tabs are used to switch between functions by clicking.

#### 3.2 CURVE PROFILE

This function allows users to set/program their own charge curves and preferred timeout setting.

CHARGING PARAMETERS: With these bars, it is able to adjust values of CC (Constant Current), TC (Taper Current), CV(Constant Voltage) and FV (Float Voltage) at any level. The curve on the right-hand side will change accordingly.

STAGE : 2 or 3 stages are selectable.

MODEL : Used to select different voltage type. If selected type does not match the charger, the software will enter offline mode.

TIMEOUT: Timeout function can be enabled to set a stop time for stop charging. The time format is HH : MM, range from 1:00 to 999:59. If STAGE is 2, then FVT cannot be set.

NOTE: 1. ENC series does not support STAGE and TIMEOUT functions.

2. Owing to communication format of PMBus, there would be ±0.1A tolerance on data transmission of CC and TC of RPB/RCB-1600. Take RPB-1600-12 as an example: set TC at 3.9A on the software, however, the actual TC of the charger would be 4.0A after clicking "Download to Device" to send the setting to the charger. TC would become 4.0A on the display when reading the setting back from the charger by "Upload to PC".



#### 3.3 SETTING

There are temperature compensation, charging curve selection and address setting in the function. TEMPERATURE COMPENSATION: There are 3 curves of battery temperature compensation available for selection. CHARGING CURVE SELECTION: Some of the chargers support multi-charge curves (including RPB/RCB-1600, DBU/DBR/NCP-3200

and HEP-1000/HEP-2300-55 in charge mode), which allows you to choose a suitable curve for the battery. Of the functions, "Disable" supports (HEP-1000/DRS-240/480,NPB-450/750/1200 /1700) switching between power supply/charge modes, uncheck the box to enable charge mode or ticked to stay in power supply mode. "User's Definition" is used to customize a new curve when the embedded curves cannot satisfy you.

ADDRESS : Some of the chargers support multi-programming function that can program multi-units at the same time. Please designate the addresses and check corresponding address boxes on the software before programming.

(NOTE: Each charger must have a unique address, please do not connect units with the same addresses to the bus) NOTE : ENC series does not support CHARGING CURVE SELECTION and ADDRESS functions.

CURVE PROFILE SETTING	120 5 c	CLIENT: MEANWELL PROJECT: Battery Charger
CTEMPERATURE COMPENSATION	<ul> <li>□ Disable</li> <li>□ -3mV/°C/Cell</li> <li>□ -4mV/°C/Cell</li> <li>□ -5mV/°C/Cell</li> </ul>	Address #0
CHARGING CURVE SELECTION	<ul> <li>Disable</li> <li>Curve #1</li> <li>Curve #2</li> <li>Curve #3</li> <li>User's Definition</li> </ul>	<ul> <li>Address #2</li> <li>Address #3</li> <li>Address #4</li> <li>Address #5</li> <li>Address #6</li> <li>Address #7</li> <li>Select All</li> </ul>

## 4. General Operation :

#### 4.1 Connection

#### 4.1.1 Automatic connection

Select a model and then click "ENTER" to proceed, shown as below. If connection is successfully established, "Open Connection" on the toolbar will light up. (The software will auto-detect the connection. If the programmer cannot be found please refer to connection error 5.1.)



#### 4.1.2 Manual connection

During offline mode, complete the device configuration and then click "Open Connection" on the toolbar to proceed, shown as below. The software will auto-detect the corresponding COM port of the programmer.



#### 4.1.3 Reconnection

To check if the device is connected effectively or replace a charger with the same model but different voltage type (e.g. ENC-120-12/24/48), please click "Check Model" on the toolbar, shown as below.



#### 4.1.4 Disconnection

To disable the connection, please click "Close Connection" on the toolbar, shown as below.



#### 4.2 Parameter programming/Reading

#### 4.2.1 Download to device

In online mode, click "Download to Device" on the toolbar, show as below. (The function will be no response during offline mode, please establish connection first or refer to Connection 4.1)



There will be a notification once the programming is complete, click "Close" to close the window.

DOWNLOAD Download completely! Close

#### 4.2.2 Upload to PC

In online mode, click "Upload to PC" on the toolbar, show as below. (The function will be no response during offline mode, please establish connection first or refer to Connection 4.1)



There will be a notificat	tion once the process is complete, cli	ck "Close" to close the window.	
	Upload to PC		
	Upload complet	ely!	
4.3 File saving/ loading 4.3.1 Loading a file Click "Open" on the too	Ibar, shown as below.	Ç ↑ ↓ (ì	
There will be a File Ope	en dialog window that appears		
Dp	en File	X	
	V 🕒 + Libraries + Documents +	- 4 Search Documents	
Org	anize 🔻 New folder	≣ ▼ 🔟 🔞	
	Favorites Desktop Desktop Doropbox OneDrive Concentry Doropbox OneDrive Recent Places Documents	Arrange by: Folder •	
		Open Cancel	

Select a file with SBP file extension of ".CSV" (This SBPSetting.csv is an example of explanation, shown as A marked in red in the picture below) and then click "Open" (as B) to load the file.



There will be a message not		
	tifying that the current setting will be lost, if continue. Click "YES" to proceed OPEN FILE $ imes$	or "NO" to cancel
	The setting will be lost, continue?	
	YES NO	
There will be a notification o	once the data is loaded, click "Close" to close the window.	
	OPEN ×	
	Data loaded!	
	ОК	
If selected file does match t	the current model, there will be a message of "The detected unit does not	match to current
setting from software. Conti	nue?". Click "YES" to switch to the model and loading the data or click "NO"	to cancel it.
	CONNECT ×	
	The detected unit does not match to current setting from software. Continue?	
	YES NO	
3.2 Saving a file		
<b>3.2 Saving a file</b> Click "Save" on the toolbar, s	shown as below.	
<b>3.2 Saving a file</b> Click "Save" on the toolbar, s	shown as below.	
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.3.2 Saving a file Click "Save" on the toolbar, s S There will be a file dialog wir	<complex-block></complex-block>	

Type a file name (This SBPSetting.csv is an example of explanation, shown as A marked in red in the picture below) and then click "Save" (as B) to save the current settings.

Organize 🔻 New fo	lder				(
J Music	^	Name	Date modified	Туре	
E Pictures		MININT	17-4-2014 21-54	File folder	
🚼 Videos		MSOCache	29-1-2015 9:17	File folder	
		PerfLogs	14-7-2009 5:20	File folder	
🝓 Homegroup		Profiles	28-12-2015 21:37	File folder	
_		Program Files	1-9-2016 12:06	File folder	
Computer		Program Files (x86)	1-9-2016 12:06	File folder	
Local Disk (C:)		ProgramData	26-7-2016 15:34	File folder	
📰 Toshiba HDD (F:)	=	🎉 Users	21-1-2015 18:12	File folder	
<b>G</b>		\mu VXIPNP	2-6-2016 13:58	File folder	
Network		🎉 Windows	5-9-2016 9:14	File folder	
	-	< [			
File name: SBE	Settir	na.csv			
					_

There will be a notification once the settings are saved, click "OK" to close the window.

SAVE		
	File saved!	
	ОК	

If this is the first time you are creating a save file, it will change to "Save As" automatically to proceed.

#### 5. Troubleshooting :

#### 5.1 Connection error

i. No charger detected

If there is a message of "No charger is detected. Keep offline mode", meaning that the charger is either not connected or the connection is poor so that the software could not detect it. Please check the connection between the programmer and the charger before trying again.

	Connect	×		
	No charger is dete Keep offline mo	cted. de.		
	ОК			
ii. No programmer detected	rammer is detected. Keep offlin	e mode" meaning th	at the program	mer is either not con
ii. No programmer detected If there is a message of "No prog or the connection is poor. Please	grammer is detected. Keep offlin e remove the USB cable and rei	e mode", meaning thans the use r	at the program port again.	mer is either not con
ii. No programmer detected If there is a message of "No prog or the connection is poor. Please	grammer is detected. Keep offlin e remove the USB cable and rein MODE	e mode", meaning thans the USB p	at the program port again.	mer is either not con
ii. No programmer detected If there is a message of "No prog or the connection is poor. Pleas	grammer is detected. Keep offlin e remove the USB cable and rein MODE No programmer is de Keep offline mo	e mode", meaning thansert it into the USB p × × etected. de	at the program port again.	mer is either not con



ii. File saving error: please select a voltage type.          Model saving error: please select a voltage type.         Please select a model         Image: construction of the sector		
Model saving error: please select a voltage type.     Please select a model   Please select a model   I or   The file has been opened: Please make sure there is no other software using the file before trying again.   SWE   Write data error1 Please   recheck if the file is opened   to ploading/downloading ERROE   I uploading downloading ERROE   1. Uploading error   No charger is detected.   Keep offline mode.   I wite data error1 file mode.   Programmer disconnected : Please check if the programmer is connected correct!   Upload to PC   Programmer disconnected:	ii. File saving error	
Medi <ul> <li>Please select a model</li> <li>or</li> </ul> To the bas been opened: Please make sure there is no other software using the file before trying again.           SVE <ul> <li>with a data error! Please receives of the file is opened</li> <li>by other software!</li> <li>is or</li> </ul> SUpleding/downloading ERROE <ul> <li>with the file is opened</li> <li>by other software!</li> <li>is opened!</li> <li>is opene</li></ul>	Model saving error: please seled	ct a voltage type.
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Please select a model   or   The last base one openeed: Please musice sure there is no other software using the labelone trying again.   SVE   Write data error! Please   To be compared   by other software!   by other software! <td></td> <td></td>		
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Image: constraint of the set of t		
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The file has been opened: Please make sure there is no other software using the file before trying again.		
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SWE   Where here are real programmer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Programmer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly.   Value   Vorgrammer disconnected : Please check if the programmer is connected correctly. Vorgrammer disconnected c		
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By other software   3 Uploading/downloading ERROR 4. Uploading error No charger detected: Please check if there is a charger connected to the programmer, with a voltage type matching the current set   Connect   No charger is detected.   Keep offline mode.   Image:   I		recheck if the file is opened
OK   3 Uploading drow No charger detected: Please check if there is a charger connected to the programmer, with a voltage type matching the current of the programmer is detected.   Keep offline mode.   OK   Programmer disconnected : Please check if the programmer is connected correctly.   Upload to PC   Programmer disconnected!		by other software!
<b>Juploading errori</b> So charger detected: Please check if there is a charger connected to the programmer, with a voltage type matching the current set   Connect   No charger is detected.   Keep offline mode.   Image:		ОК
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Connect       Keep offline mode.         Image:       Image:         Image:       Image:      <	Ű.	
No charger is detected.   Keep offline mode.   Or an analysis of the programmer is connected correctly.   Upload to PC   Programmer disconnected!   Image: Close		Connect X
No charger is detected.   Keep offline mode.   or   Programmer disconnected : Please check if the programmer is connected correctly.   Upload to PC   Programmer disconnected!   Image: Close		
Keep offline mode.   Or Programmer disconnected : Please check if the programmer is connected correctly.   Upload to PC   Programmer disconnected!   Image: Close		No charger is detected.
OK   Programmer disconnected : Please check if the programmer is connected correctly.   Upload to PC   Programmer disconnected!   Close		Keep offline mode.
ν   Programmer disconnected : Please check if the programmer is connected correctly.   Upload to PC   Programmer disconnected!   Close		
Programmer disconnected : Please check if the programmer is connected correctly.          Upload to PC         Programmer disconnected!             Close		ОК
Programmer disconnected : Please check if the programmer is connected correctly.          Upload to PC         Programmer disconnected!         Close		
Programmer disconnected - Please check if the programmer is connected correctly. Upload to PC Programmer disconnected! Close		
Upload to PC Programmer disconnected! Close	Programmer disconnected · Pleas	se check if the programmer is connected correctly.
Programmer disconnected!	l	Upload to PC
Programmer disconnected!		
Close		Programmer disconnected!
Close		
Close		
		Close

Upload error: Please check if a	Il of the devices are connected correctly before trying again.
	Upload to PC
	Unload to PC Error!
	Please recheck the connection!
	Close
ii. Downloading error	pack if there is a charger connected to the programmer with a voltage type matching the current setting
no charger delected. Please cr	leck in there is a charger connected to the programmer, with a voltage type matching the current setting.
	Connect ×
	No charger is detected. Keep offline mode.
	ОК
Programmer disconnected : PI	ease check if the programmer is connected correctly.
	Upload to PC
	Programmer disconnected:
	Close
Download error: Please check	if all of the devices are connected correctly before trying again.
	Download to Device
	Download to Device Error!
	Please recheck the connection!
	Close
6. Notes:	
1. Please utilize a proper communi	cation cable for programming. A non-authorized cable may cause a programming error.
on the charger.	after the charger is restarted. For ENC series, please disconnect the programmer before turning
3. The following table lists which ve	rsion of the software is required for each version of the chargers. For the best performance, you
should use compatible version o	I SUILWALE, SEF -UU I AILU LIE CHAIGEIS.

SBP-001 Software	SBP-001 Firmware	Product Firmware
R01.6	R01.3	HEP-1000(PMBus, CANBus) R01.0 and later DBR-3200(CANBus) R01.1 and later DBR-3200(PMBus) R01.0 and later DBU-3200(CANBus) R01.0 and later DBU-3200(PMBus) R01.0 and later RPB-1600(CANBus, PMBus) R02.0 and later RCB-1600(CANBus, PMBus) R02.0 and later ENC series R01.0 and later NPB-450/750(CANBus) R1.0 and later NPB-1200/1700(CANBus) R1.0 and later DRS-240/480(CANBus) R1.0 and later HEP-2300-55(PMBus, CANBus) R1.0 and later
R01.5	R01.3	HEP-1000(PMBus, CANBus) R01.0 and later DBR-3200(CANBus) R01.1 and later DBR-3200(PMBus) R01.0 and later DBU-3200(CANBus) R01.0 and later DBU-3200(PMBus) R01.0 and later RPB-1600(CANBus, PMBus) R02.0 and later RCB-1600(CANBus, PMBus) R02.0 and later ENC series R01.0 and later NPB-450/750(CANBus) R1.0 and later NPB-1200/1700(CANBus) R1.0 and later DRS-240/480(CANBus) R1.0 and later HEP-2300-55(PMBus, CANBus) R1.0 and later
R01.4	R01.3	HEP-1000(PMBus, CANBus) R01.0 and later DBR-3200(CANBus) R01.1 and later DBR-3200(PMBus) R01.0 and later DBU-3200(CANBus) R01.1 and later DBU-3200(PMBus) R01.0 and later RPB-1600(CANBus, PMBus) R02.0 and later RCB-1600(CANBus, PMBus) R02.0 and later ENC series R01.0 and later
R01.3	R01.2	DBR-3200(CANBus) R01.1 and later DBR-3200(PMBus) R01.0 and later DBU-3200(CANBus) R01.1 and later DBU-3200(PMBus) R01.0 and later RPB-1600(CANBus, PMBus) R02.0 and later RCB-1600(CANBus, PMBus) R02.0 and later ENC series R01.0 and later
R01.2	R01.1	RPB-1600(CANBus) R01.0~01.1 RPB-1600(PMBus) R01.0~01.7 RCB-1600(CANBus) R01.0~01.1 RCB-1600(PMBus) R01.0~01.6 ENC series R01.0 and later
R01.1	R01.1	RPB-1600(CANBus) R01.0~01.1 RPB-1600(PMBus) R01.0~01.7 RCB-1600(CANBus) R01.0~01.1 RCB-1600(PMBus) R01.0~01.6 ENC series R01.0 and later
R01.0	R01.0	ENC series R01.0 and later

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