

User's Manual



## ■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

## ■ Features

- 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
- Simple connection and configuration
- No need of battery or AC power
- LED status indicator
- Communication cables of SBP#1,SBP#2,SBP#3,SBP#4 included (USB cable Type A - Mini USB is not included)

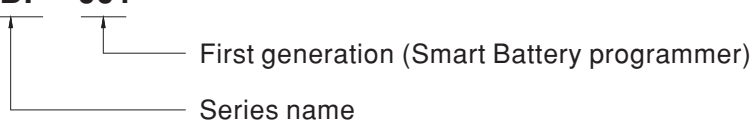


TPTC004 IEC62368-1

## ■ Description

SBP-001 is a programmer, particularly for MEAN WELL's various programmable battery charger models to program the parameters of charging curves, such as constant current (CC), constant voltage (CV), float voltage (FV) and taper current (TC), taper current(TC) and so on, to accommodate the diversified battfor simplicity and convenience, users can easily configure MEAN WELL's intelligent battery chargersery specification in industry. With the design accounting with SBP-001 programmer and the computer; all of the setups are able to be finished easily by the means of the specific software.

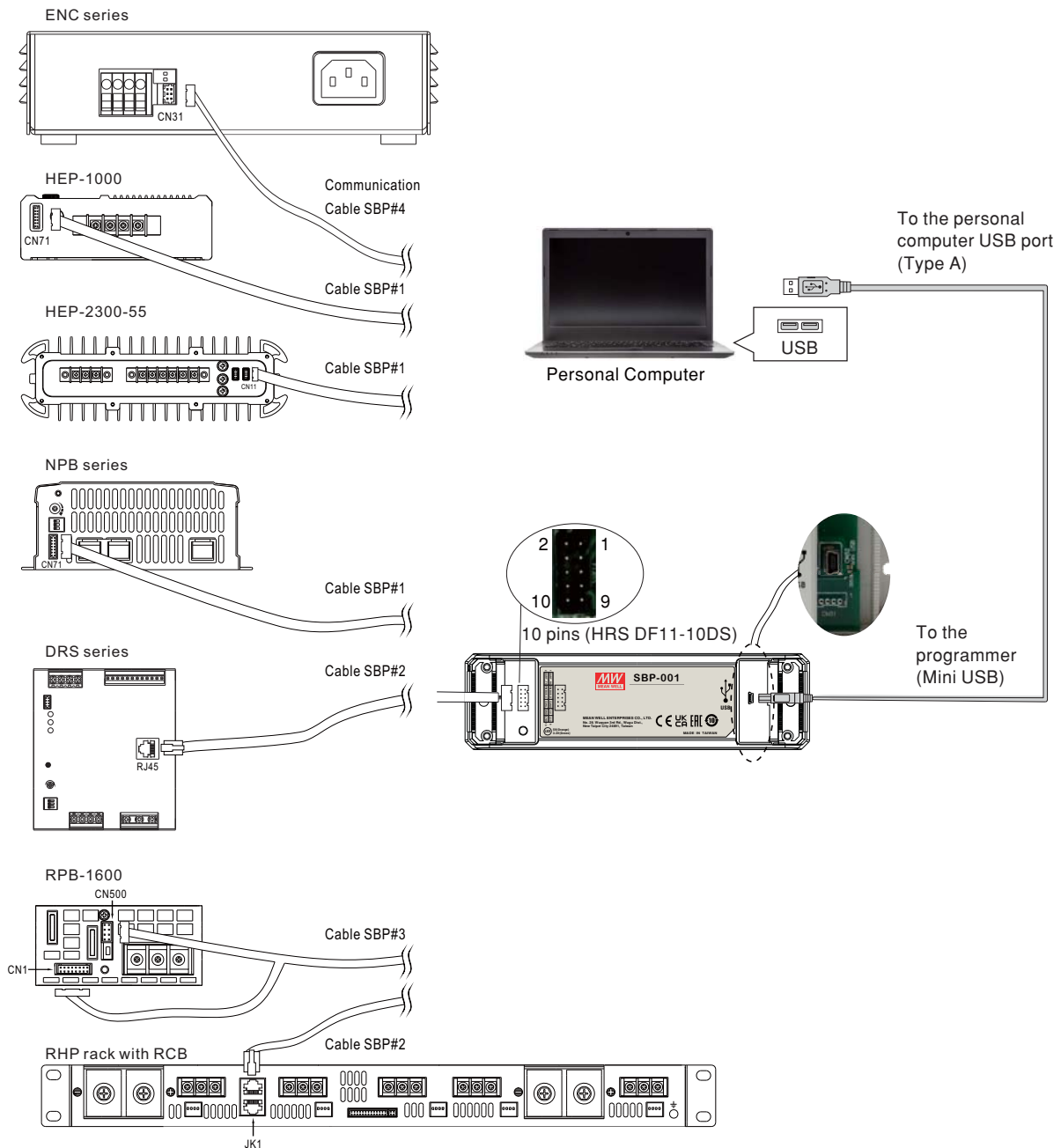
## ■ Model Encoding

**SBP - 001**

## SPECIFICATION

<b>MODEL</b>	<b>SBP-001</b>	
<b>FUNCTION</b>	<b>COMM. PC INTERFACE</b>	Mini USB
	<b>COMM. PROGRAMMING INTERFACE</b>	PMBus, CANBus, UART
	<b>LED INDICATOR</b>	Green: 3.3V interface    Orange: 5V interface
	<b>PROGRAMMING VOLT.</b>	5V and 3.3V, for programming purpose only. Total 0.5W(max.)
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	0~ +40°C
	<b>WORKING HUMIDITY</b>	20 ~ 90% RH non-condensing
	<b>STORAGE TEMP., HUMIDITY</b>	-10 ~ +50°C, 10 ~ 95% RH non-condensing
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
<b>SAFETY &amp; EMC</b>	<b>SAFETY STANDARDS</b>	IEC62368-1 CB, EAC TP TC 004 approved
	<b>EMC EMISSION</b>	Compliance to BS EN/EN55032 (CISPR32) Conduction Class B, Radiation Class A ; BS EN/EN61000-3-2,-3, EAC TP TC 020
	<b>EMC IMMUNITY</b>	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-1(BS EN/EN50082-2), light industry level, criteria A, EAC TP TC 020
<b>OTHERS</b>	<b>MTBF</b>	3103.9K hrs min.    Telcordia SR-332 (Bellcore) ; 312.9K hrs min.    MIL-HDBK-217F (25°C)
	<b>DIMENSION</b>	165*46*23mm (L*W*H)
	<b>PACKING</b>	0.12Kg; 84pcs/11Kgs/1.81CUFT

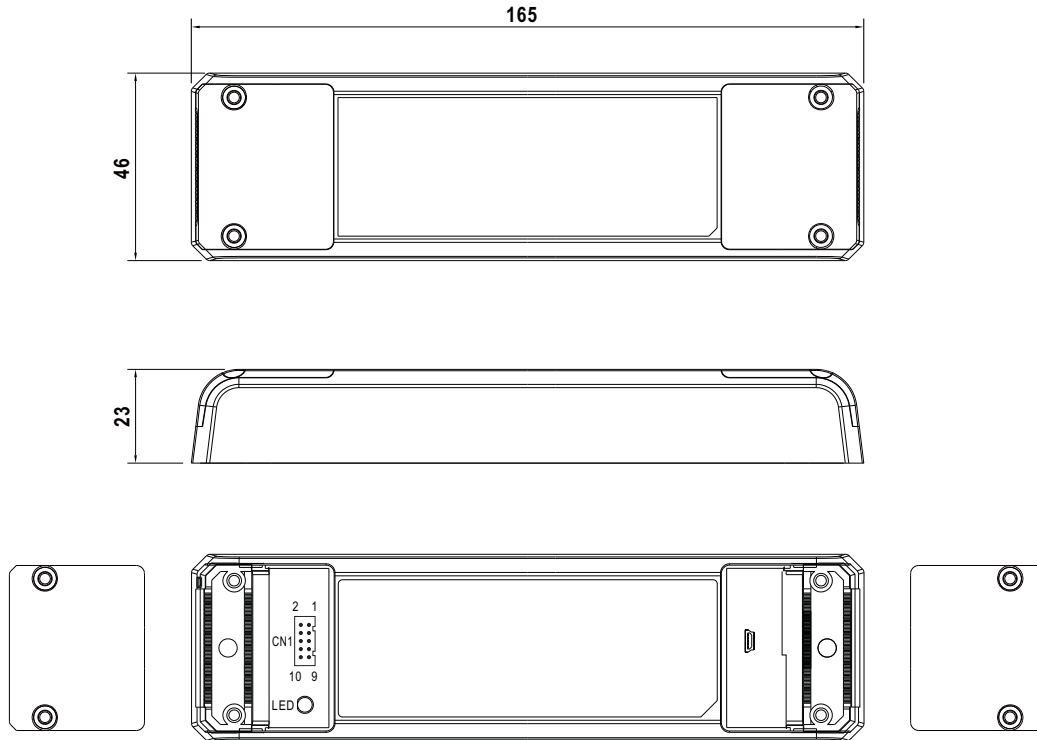
### Smart Programmer Connection



**Mechanical Specification**

(Unit: mm , tolerance  $\pm 1$ mm)

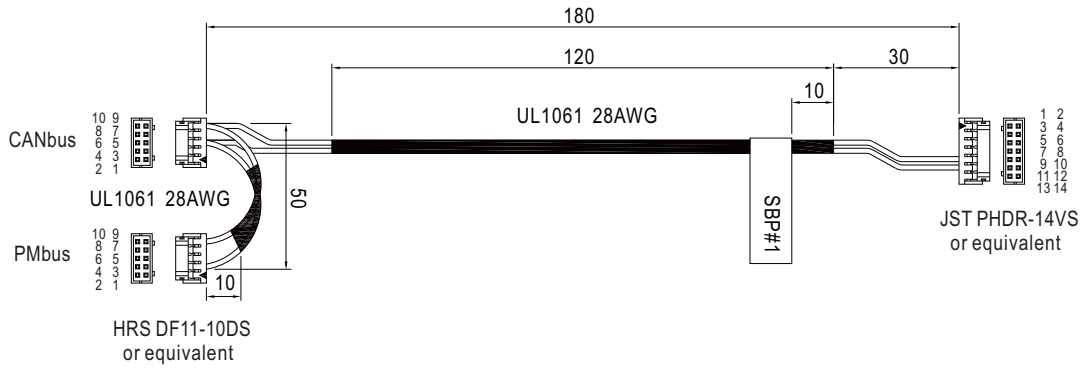
Case No.DAP-04



Control Pin No. Assignment (CN1) : HRS DF11-10DP-2DSA or equivalent

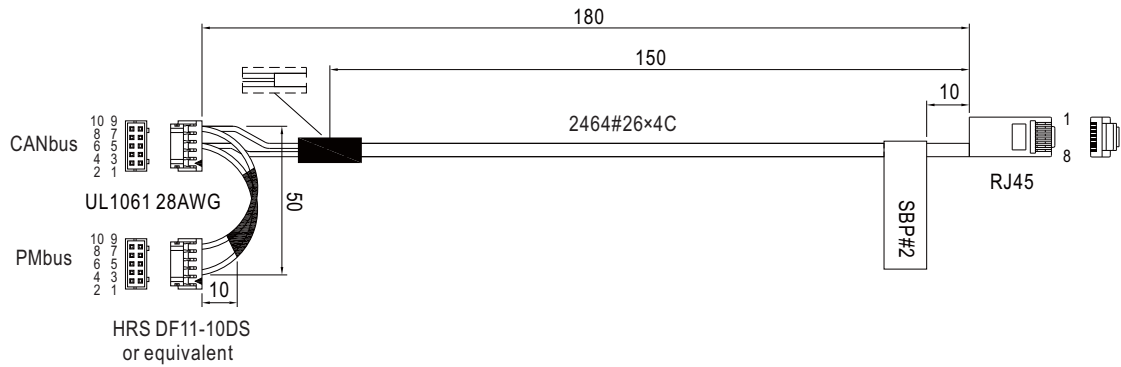
Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	UART_RX	6	CANL	HRS DF11-10DS or equivalent	HRS DF11-10SC or equivalent
2	UART_TX	7	5V		
3	PMBUS_D	8,10	GND		
4	PMBUS_C	9	3.3V		
5	CANH				




※ SBP#1 communication cable



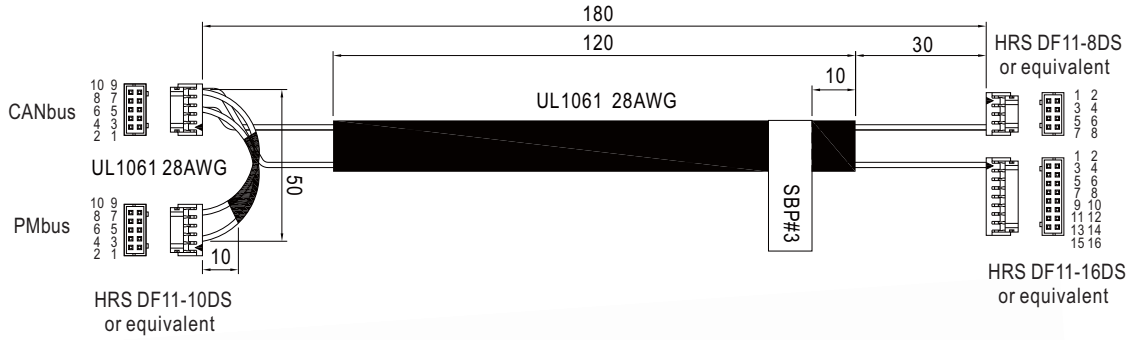
Connector	Pin Assigment									
HRS DF11-10DS PIN NO.(CANbus)	1	2	3	4	5 (CANH)	6 (CANL)	7	8	9	10 (GND)
HRS DF11-10DS PIN NO.(Pmbus)	----	----	----	----	3 (SDL)	4 (SCL)	----	----	----	10 (GND)
Wire color	----	----	----	----	White	Orange	----	----	----	Black
JST PHDR-14VS PIN NO.	----	----	----	----	11	12	----	----	----	9 (GND)
Wire color	----	----	----	----	Blue	Yellow	----	----	----	Black

※ **SBP#2 communication cable**



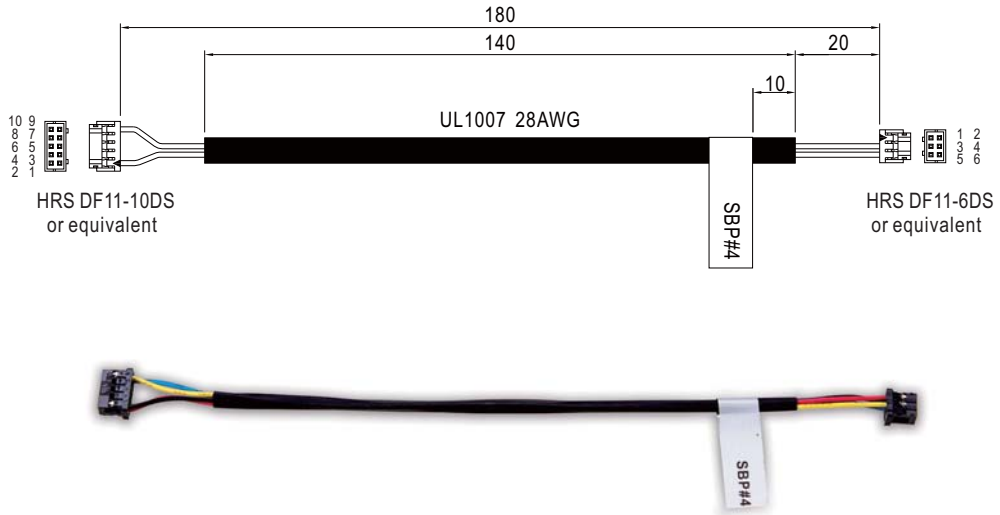
Connector	Pin Assigment									
HRS DF11-10DS  PIN NO.(CANbus)	1	2	3	4	5 (CANH)	6 (CANL)	7	8	9	10 (GND)
HRS DF11-10DS  PIN NO.(PMbus)	----	----	----	----	3 (SDL)	4 (SCL)	----	----	----	10 (GND)
Wire color	----	----	----	----	White	Orange	----	----	----	Black
RJ-45 	----	----	----	----	6	7	----	----	----	8
Wire color	----	----	----	----	Green	White/Brown	----	----	----	Brown



※ SBP#3 communication cable



Connector	Pin Assignment									
HRS DF11-10DS PIN NO. (CANbus)	1	2	3	4	5 (CANH)	6 (CANL)	7	8	9	10 (GND)
HRS DF11-10DS PIN NO. (PMbus)	----	----	----	----	3 (SDL)	4 (SCL)	----	----	----	10 (GND)
Wire color	----	----	----	----	White	Orange	----	----	----	Black
HRS DF11-16DS PIN NO. (CANbus)	----	----	----	----	----	----	----	----	----	2
HRS DF11-8DS PIN NO. (CANbus)	----	----	----	----	7	8	----	----	----	----
Wire color	----	----	----	----	Blue	Yellow	----	----	----	Black

※ **SBP#4 communication cable**



Connector	Pin Assignment									
HRS DF11-10DS PIN NO. 	1	2	3	4	5	6	7	8	9	10
HRS DF11-6DS PIN NO. 	4	3	----	----	----	----	----	----	1	2
Wire color	Blue	Yellow	----	----	----	----	----	----	Red	Black

■ **Charger VS Communication Cable**

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