

# Application Note – How to connect Sigen Battery Controller with stamped terminals

## ! The historical version

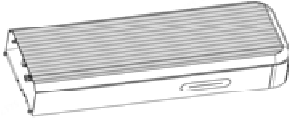
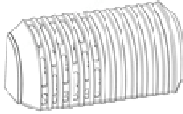
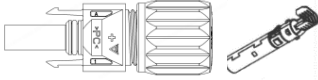
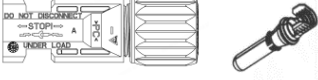
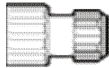



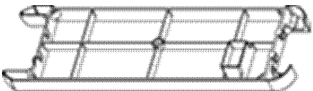

Version 1.0, November, 2025 – Initial release

## ! Background








To better adapt to the crimping tools already used by on-site installers, we have adopted new stamping terminals to achieve more efficient and reliable wiring. This document outlines the procedure for connecting the Sigen Hybrid SP2/TP2 to the Sigen Battery Controller using stamped terminals.

## ! Technical Description

1 Sigen Battery Controller Packing List view


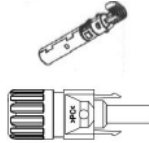

No.	Name	Part No. (in-line coding)	Diagram	Quantity (PCS/Set)
1	Sigen Battery Controller	/		1
2	Decorative cover (left)	1302000257		1
3	Photovoltaic connector- Straight female	1428000800		1
4	Photovoltaic connector- Straight male	1428000900		1
5	RJ45 terminal	1424000239		1
6	Screw (Hex Head, M8 x 25)	GB9074_13- 88_M5X12_NI		2
7	OT terminal (14 mm <sup>2</sup> )	1429000026		2
8	Large washer expansion bolt (M8x120)	1401000148		6
9	Base	1205000046		1
10	Leveling plate 20mm*20mm*1.5mm	1401000047		4

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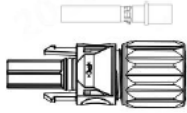
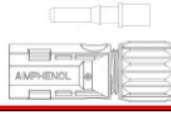




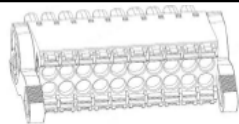





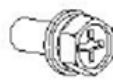
No.	Name	Part No. (in-line coding)	Diagram	Quantity (PCS/Set)
11	Leveling plate 20mm*20mm*2mm	1401000048		4
12	Leveling plate 20mm*20mm*3mm	1401000049		4
13	Module Coupler (Left)	1301000061		1
14	Handle	1205000049		2
15	Screw (PH, M5*12)	GB9074_4_ M5X12_NI		12
16	Wall fastener	1301000009		2
17	Packing list	3104000226		1
18	Delivery Inspection Report	3103000125		1
19	Quick Guide	3101000048		

Confirm the machined terminals in Photovoltaic connector kits in Sigen Battery Controller Packing. As shown in the diagram above, There is one pair Photovoltaic connectors, namely Straight female and Straight male.





## 2 Sigen Hybrid Inverter 2.0–6.0kW Single Phase Packing list

No.	Name	Part No. (in-line coding)	Diagram	Quantity (PCS/Set)
1	Sigen Hybrid Controller	/		1
2	Photovoltaic connector - Straight male -1Pin-41A	1428001300		2
3	Photovoltaic connector - Straight female -1Pin-41A	1428001400		2

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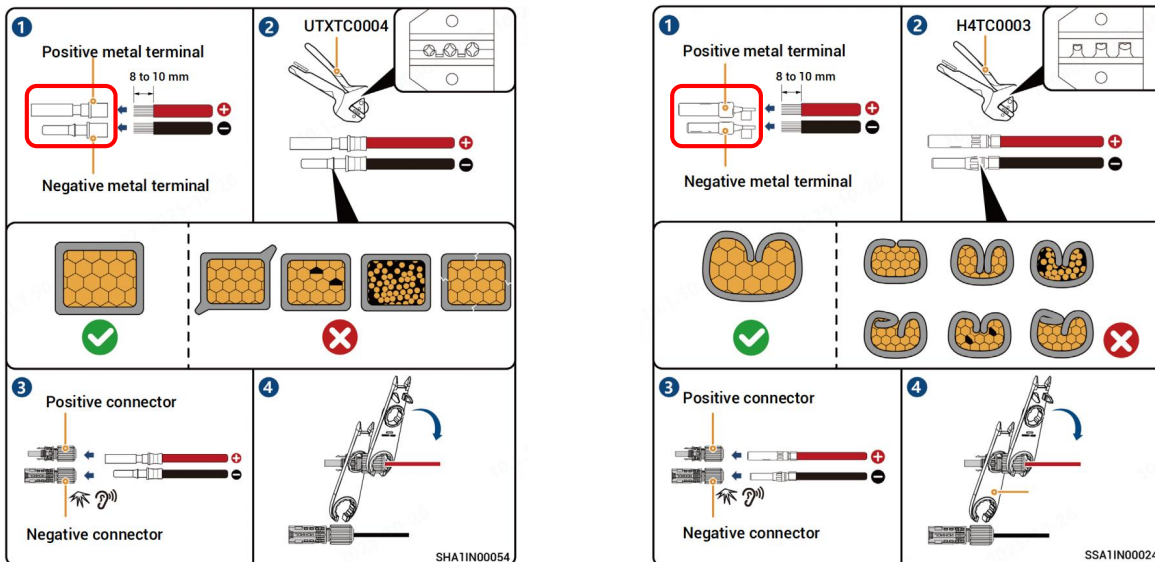
No.	Name	Part No. (in-line coding)	Diagram	Quantity (PCS/Set)
4	Straight male -1Pin-45A	1428002300		1
5	Straight female -1Pin-45A	1428002400		1
6	Power Connector, 3Pin-600VAC-35A, Straight female, Waterproof round socket, Plastic case	1424000011		1
7	Packing list	3104000235		1
8	Quick Guide	3101000043		1
9	Delivery Inspection Report	3103000104		1
10	COM terminal	1424012500		1
11	Tube terminal	1429000600		20
12	FE terminal	1424012701		2
13	Terminal protection cover	1424009000		1
14	WLAN antenna stick	1801000900		1
15	Tamper - proof Torx Pan - head Combination Screw, M5x16, Zinc - Nickel Plated	1401000038		2
16	Screw (External hexagon combination screw M5*14)	GB9074_13- 88_M5X14 _NI		2

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No.	Name	Part No. (in-line coding)	Diagram	Quantity (PCS/Set)
17	OT terminal (RNB5-5)	1429000013		2
18	Back bracket of Charging connector holder	1204000303		1
19	Expansion bolt (M6)	GB22795ZM_M6X50_S		3
20	Wall mount bracket	1301000794		1

Confirm the machined terminals in Photovoltaic connector kits in Sigen Hybrid Inverter SP2/TP2 Packing. As shown in the diagram above (e.g. Sigen Hybrid Inverter 2.0–6.0kW Single Phase Packing list), There is one pair Photovoltaic connectors, namely Straight female and Straight male. The Sigen Hybrid Inverter SP2/TP2 Packing list may differ depending on the device model.

### 3 Connect Sigen Battery Controller with stamped terminals



Replace the machined terminals (Fig. left) in Photovoltaic connector kits in Sigen Battery Controller Packing and Sigen Hybrid Inverter SP2/TP2 Packing respectively with stamped terminals shipped (Fig. right) and follow the instructions in the diagram right to connect the Sigen Hybrid SP2/TP2 to the Sigen Battery Controller with stamped terminals using crimping tools H4TC0003.