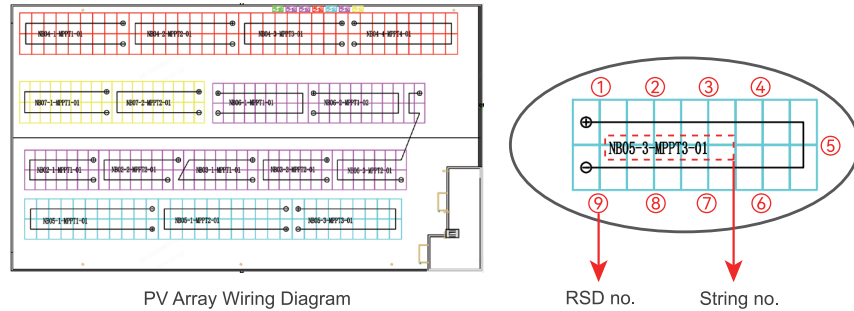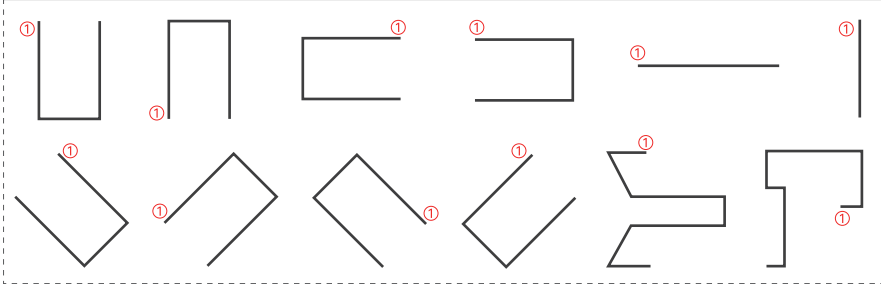# Physical Layout Template Usage Guide

1. Prepare the PV array wiring diagram. The diagram must include the string number and the corresponding PV position of each string, as per shown in the figure below. The QR codes from RSD label should be pasted to the physical layout diagram according to the order of string wiring, with each PV string correspond to only one physical layout template.
At both ends of each string, appoint the RSD at the upper end of the string wiring diagram as number ① (if the two ends are on the same level, appoint the RSD at the left end as number ①), and then number them in sequence according to the direction of the string line, as shown in the figure below.

PV Array Wiring Diagram   RSD no.   String no.

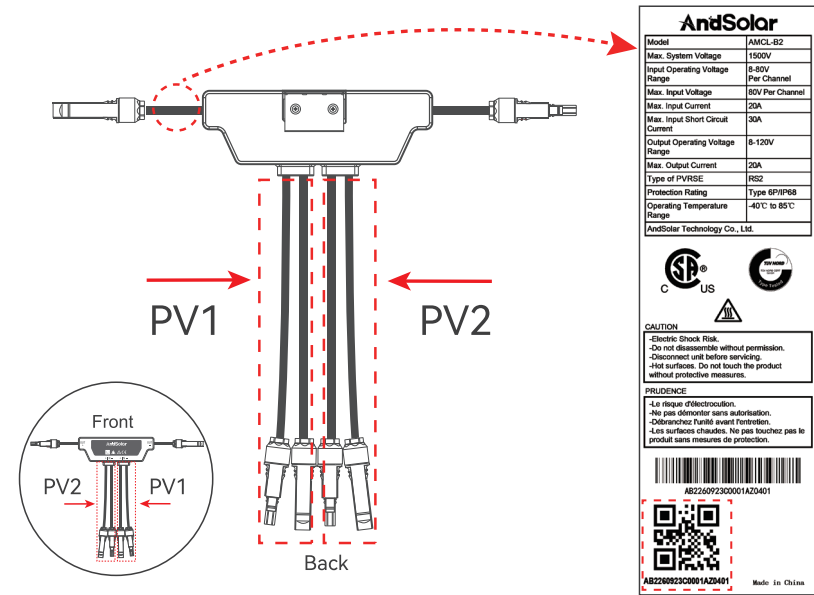### Example of the location of RSD ① in various string arrangement

2. Stick the QR code of the ADCU to the corresponding position on the Physical Layout Template; copy the string number on the PV Array Wiring Diagram to the corresponding position on the Physical Layout Template.
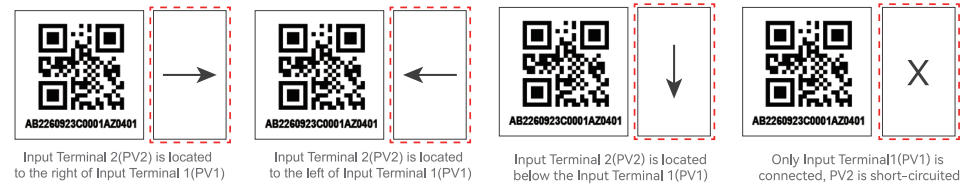(Note: each ADCU will have at most 20 QR Code stickers)

ADCU QR code spot

String no._____

4. If the PV module is connected to the Input Terminal 1(PV1) of the RSD, please peel off the QR code from the RSD label and stick it into the corresponding square of the Physical Layout Template.

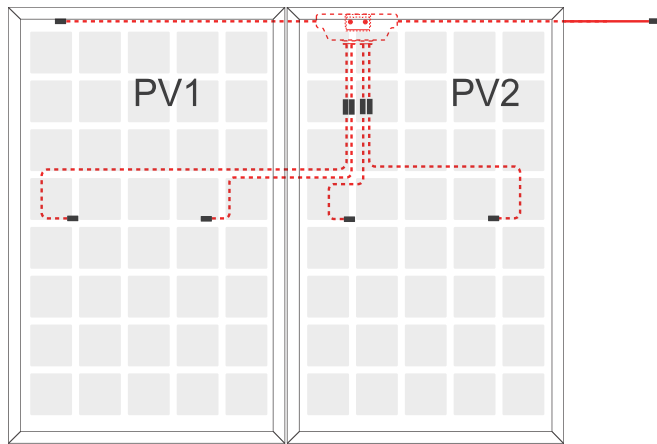| Model	AMCL-B2
Max. System Voltage	1500V
Input Operating Voltage Range	8-80V Per Channel
Max. Input Voltage	80V Per Channel
Max. Input Current	20A
Max. Input Short Circuit Current	30A
Output Operating Voltage Range	8-120V
Max. Output Current	20A
Type of PVRSE	RS2
Protection Rating	Type 6P/IP68
Operating Temperature Range	-40℃ to 85℃
AndSolar Technology Co., Ltd.	

PV1   PV2

Front

PV2   PV1

Back

5. If the PV module is connected to the Input Terminal 2 (PV2) of the RSD, draw an arrow in the corresponding square. The arrow indicates the direction of the PV module connected to the PV2 input relative to the PV module connected to the PV1 input;
If there is only one PV module, the Input terminal 1(PV1) input of the RSD must be connected to RSD, Input Terminal 2(PV2) must be short-circuited(connect positive and negative pole), and an "×" must be drawn in the blank square after it, as shown in the figure below.
(Note: Based on the front perspective view of the PV module)

Input Terminal 2(PV2) is located to the right of Input Terminal 1(PV1)   Input Terminal 2(PV2) is located to the left of Input Terminal 1(PV1)   Input Terminal 2(PV2) is located below the Input Terminal 1(PV1)   Only Input Terminal1(PV1) is connected, PV2 is short-circuited
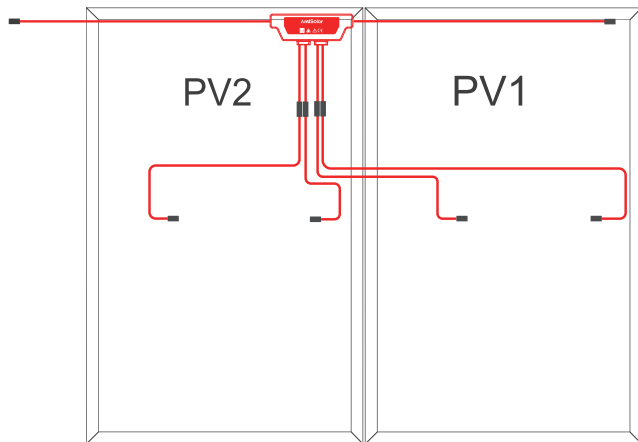
6. Upload the finished Physical Layout Template and corresponding PV Array Wiring Diagram to the AndSolar Cloud APP.
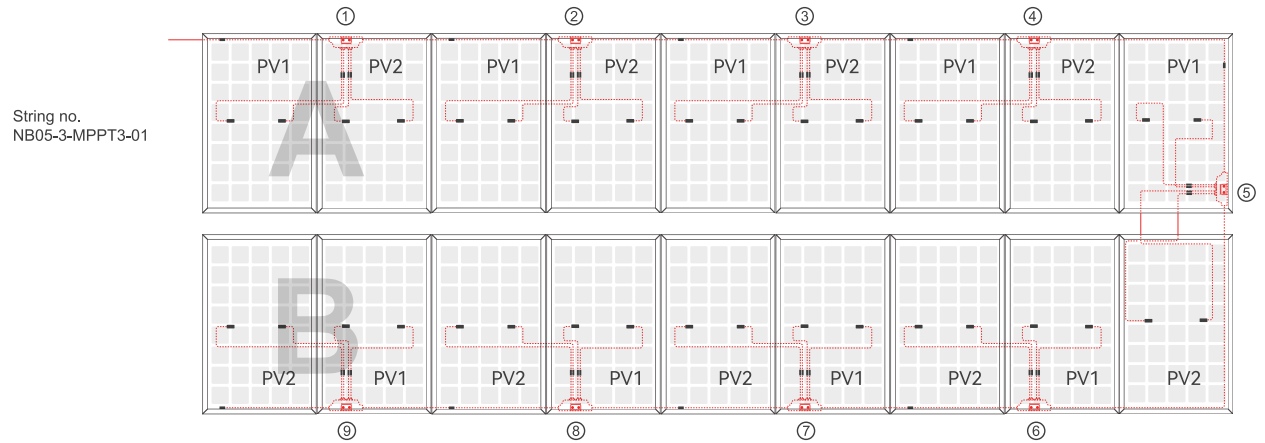
Completed RSD Installation Drawing

PV1 PV2

Front view

PV2 PV1

Back view

PV String Arrangement Sample

At both ends of the string, A and B, appoint the RSD at the upper end of the string wiring diagram as number ①
(if the two ends are on the same level, appoint the RSD at the left end as number ①)

String no.
NB05-3-MPPT3-01

① ② ③ ④

PV1 PV2 PV1 PV2 PV1 PV2 PV1 PV2 PV1

A

⑤

B

PV2 PV1 PV2 PV1 PV2 PV1 PV2 PV1 PV2

⑨ ⑧ ⑦ ⑥

Physical Layout Template Usage Examples

ADCU QR
code spot

String no. _____NB05-3-MPPT3-01_____

User: _____XXXXXXXXXXXX_____

RSD no. ➡

①	②	③	④	⑤	⑥
AB2260923C0001AZ0401 →	AB2260923C0001AZ0401 →	AB2260923C0001AZ0401 →	AB2260923C0001AZ0401 →	AB2260923C0001AZ0401 ↓	AB2260923C0001AZ0401 ←
⑦	⑧	⑨	⑩	⑪	⑫
AB2260923C0001AZ0401 ←	AB2260923C0001AZ0401 ←	AB2260923C0001AZ0401 ←			
⑬	⑭	⑮	⑯	⑰	⑱

Note: Paste the QR code of the corresponding numbered RSD into the corresponding numbered square.

String no. _____

User: _____

①	②	③	④	⑤	⑥

⑦	⑧	⑨	⑩	⑪	⑫

⑬	⑭	⑮	⑯	⑰	⑱

Note: Paste the QR code of the corresponding numbered RSD into the corresponding numbered square.