

# Solinteg MPPT Parallel Solution

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**01**

**⚡ Brief Introduction**

# Brief Introduction

## Purpose



To meet customers' needs for accessing high-power solar panels, providing customers with more options when selecting solar panels.

## Solution



PV: Connection via Y-type MC4 connector or external junction box

Inverter: Turn on the MPPT parallel function





**02**

**⚡ Solution**

# Solution

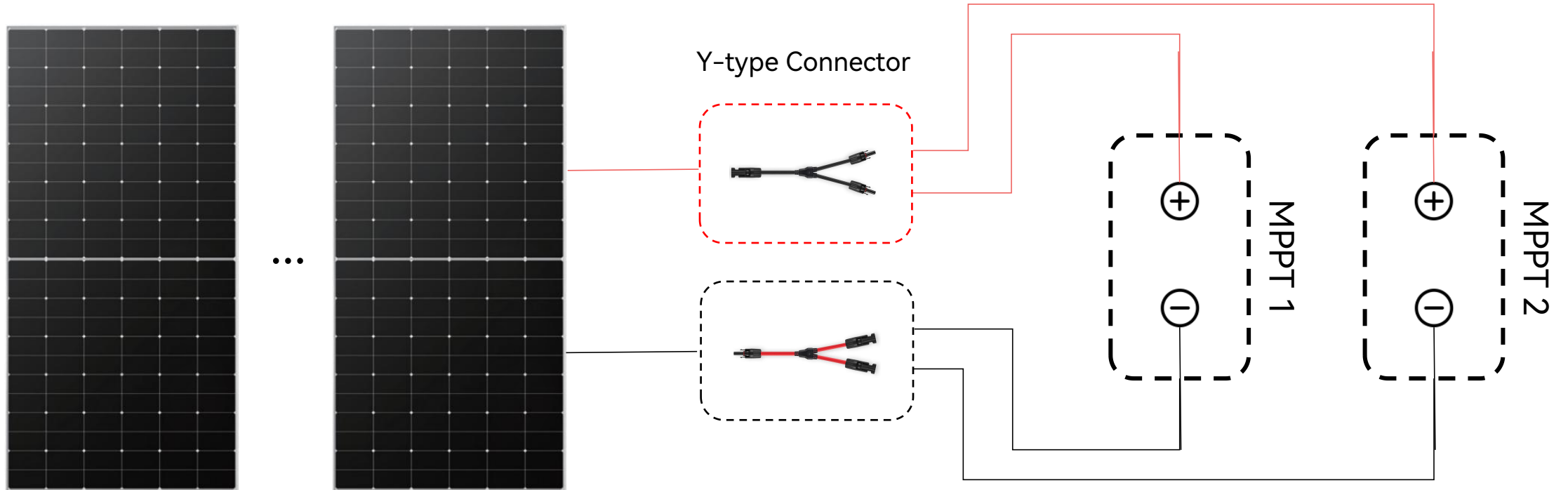
| Solution | Max. Total DC Input * | Wiring Mode           | Applicable Model **   |  |  |           |
|----------|-----------------------|-----------------------|---|--|--|-----------|
| A        | 30A                   | Y-type Connector      | MHS-4.2K-30<br>MHS-5K-30<br>MHS-6K-30<br>MHS-8K-30                      | MHT-4K-25<br>MHT-5K-25<br>MHT-6K-25<br>MHT-8K-25<br>MHT-10K-25<br>MHT-12K-25 | OGS-3.6K<br>OGS-4.2K<br>OGS-5K<br>OGS-6K |           |
| B        | 60A/60A               | Junction Combiner Box | MHT-25K-100<br>MHT-30K-100<br>MHT-36K-100<br>MHT-40K-100<br>MHT-50K-100 |  |  |           |
| C        | 30A/15A               | Y-type Connector      | OGS-7K<br>OGS-8K<br>OGS-10K   | OGT-12K<br>OGT-15K   | OGT-8K-P<br>OGT-10K-P                    | OGT-8K-AU |
| D        | 30A/30A               | Y-type Connector      | OGT-20K<br>OGT-25K  | OGT-12K-P<br>OGT-15K-P   |  |           |
| E        | 60A                   | / ***                 | MHT-40K-100-P<br>MHT-50K-100-P  |  |  |           |

\* : Max. Total DC Input is the combination of all PV inputs current.

\*\* : This function is only available for the listed models.

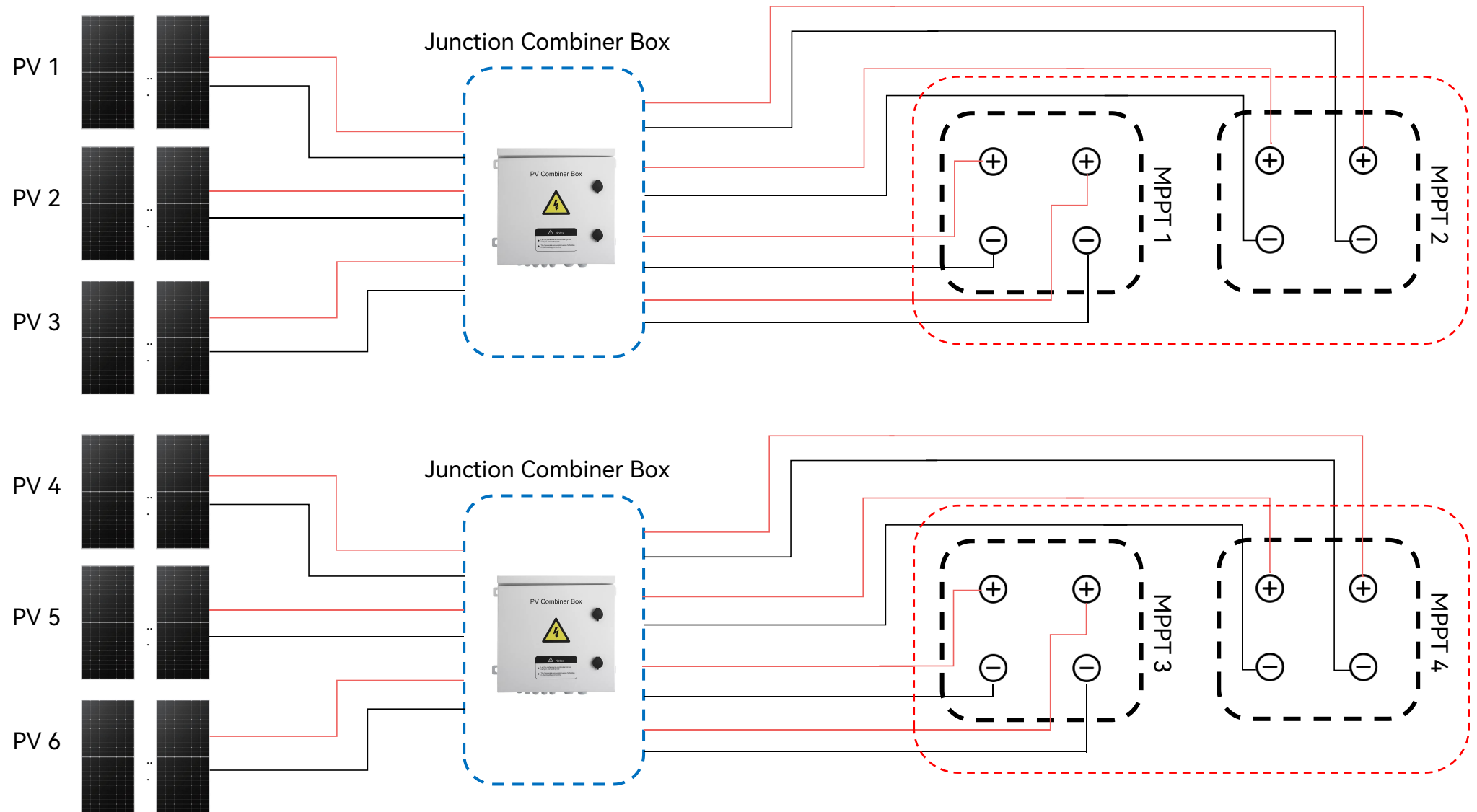
\*\*\* : The MPPT has been connected in parallel inside the inverter.

# Solution A



$15A < PV I_{mpp} < 30A$

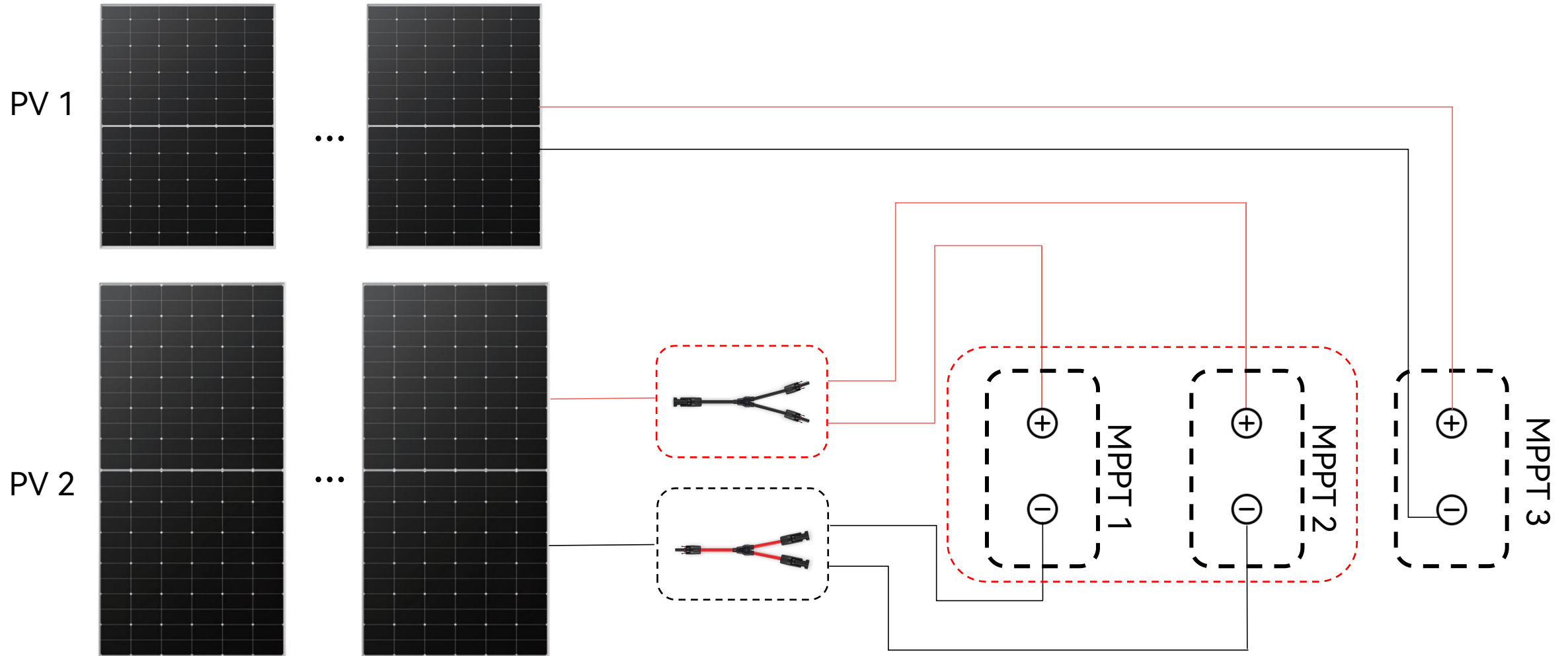
# Solution B



15A < PV  $I_{mp}$  < 20A



# Solution C

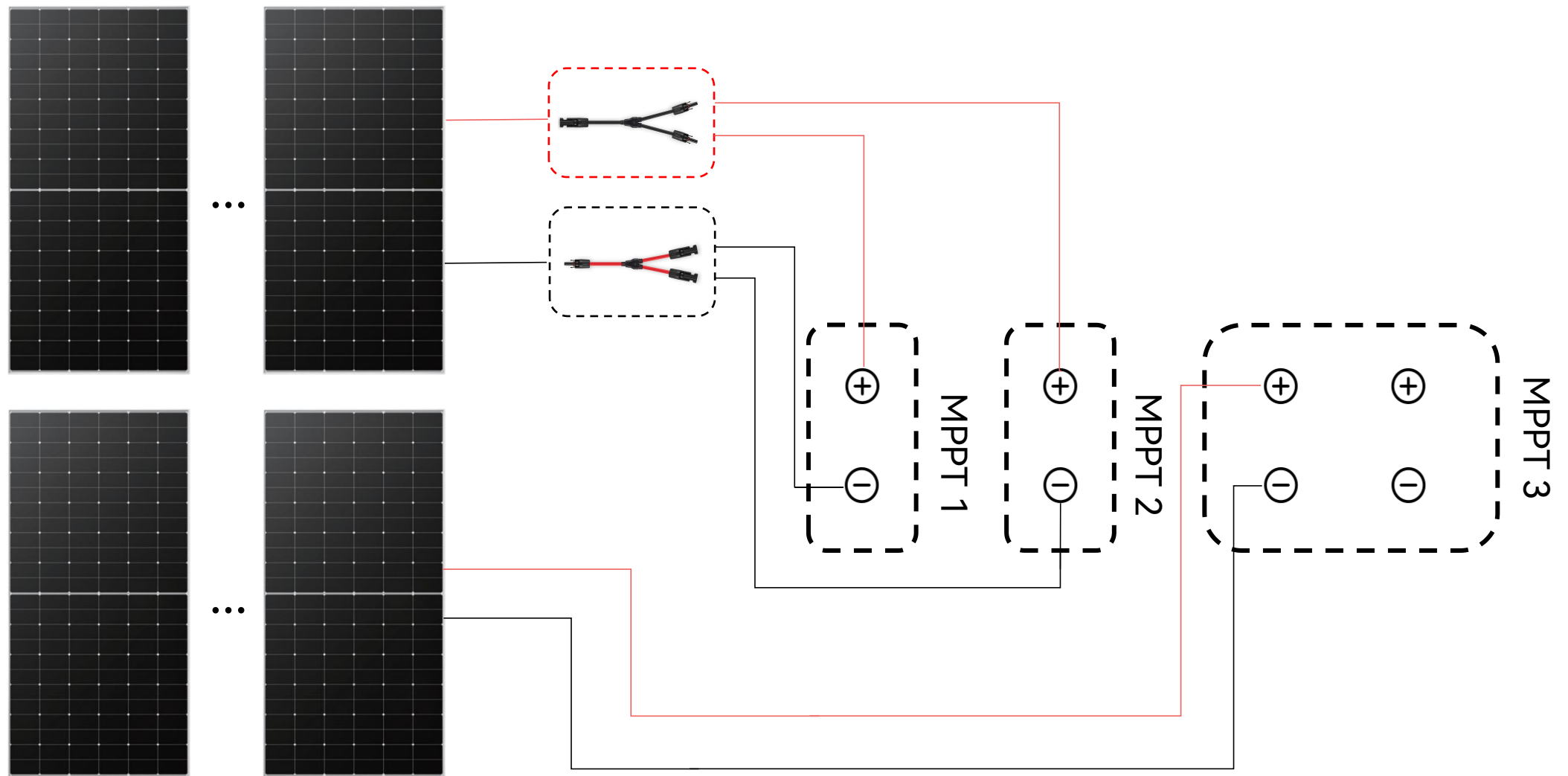


MPPT1&2\*: One string solar panels with 30A Max. output current can be connected.

(\*: The paralleled MPPT must be MPPT 1 and MPPT 2.)

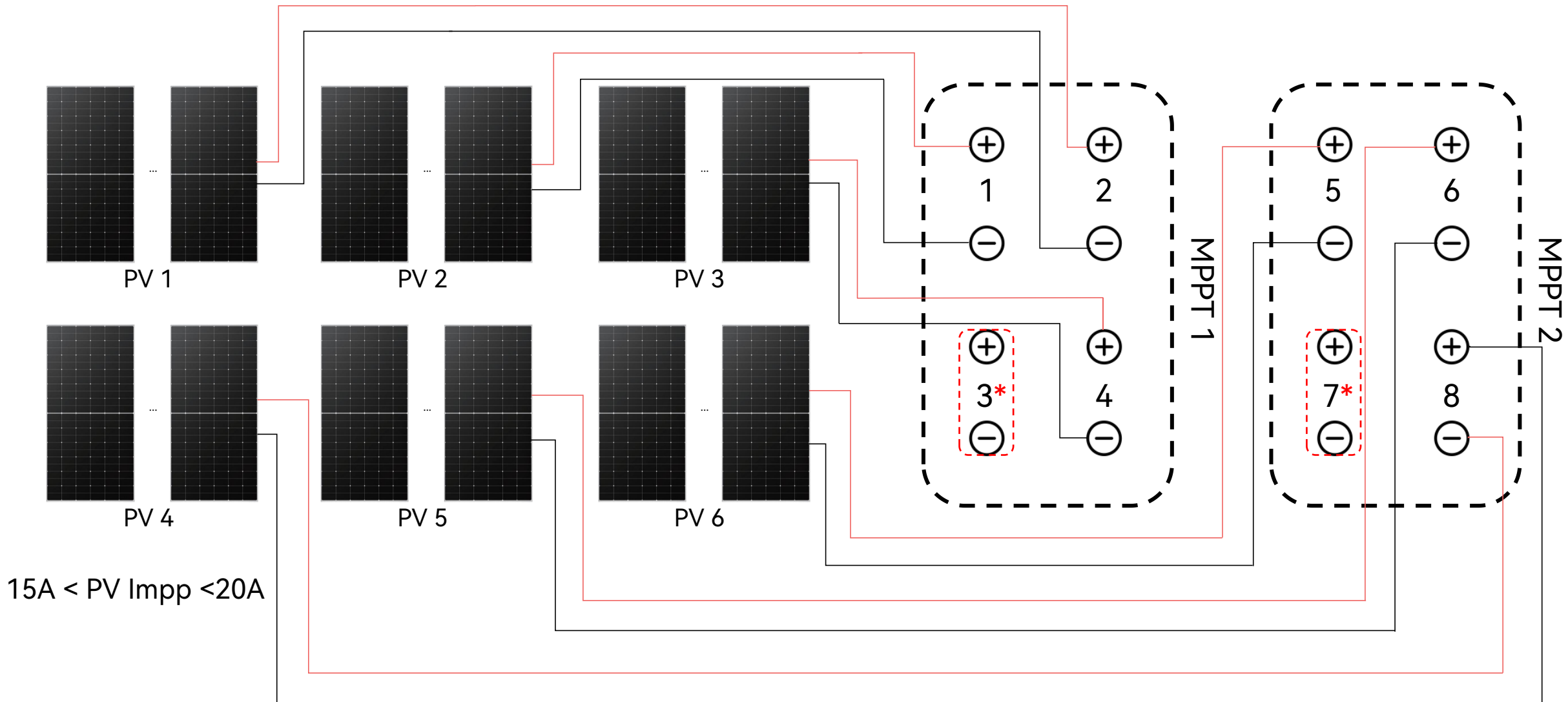
MPPT3: One string solar panels with 15A Max. output current can be connected.

# Solution D



$15A < PV I_{mpp} < 30A$

# Solution E



\* : PV input 3 and 7 are not available in the parallel solution.

**03**

**⚡ Inverter Settings**

# Inverter settings-Web portal

Solinteg monitoring portal settings path:

The screenshot illustrates the navigation path to the inverter settings in the Solinteg monitoring portal. The path is indicated by numbered callouts (1-6) and blue arrows:

- 1: Management menu
- 2: Device Management sub-menu
- 3: + Add Device button
- 4: Grid Parameters section
- 5: MPPT parallel connection toggle switch
- 6: Set button

The main interface shows the Solinteg logo, navigation tabs (Overview, Plants, Management, Alarm), and user information (English, Demo user). The Management tab is active, showing a dropdown menu with options: Plant Management, Device Management, and Organization Management. The Device Management sub-menu is open, displaying a table of devices and an '+ Add Device' button.

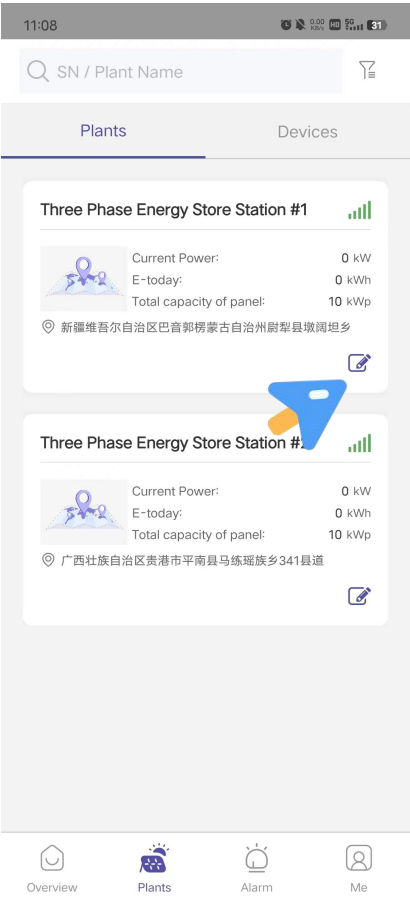
| Device Name | Model          | Plant Name               | SN               | Check C... | Master Firmware... | Slave Firmware .. | Oper...                             |
|-------------|----------------|--------------------------|------------------|------------|--------------------|-------------------|-------------------------------------|
| Demo1       | SELFA SFH 10.1 | Three Phase Energy St... | B112200140030148 | 353506     | V0.0.0.0           | V0.13.1.0         | <a href="#">✎</a> <a href="#">↕</a> |
| Demo2       | SELFA SFH 8.1  | Three Phase Energy St... | B112200101330137 | 653509     | V0.0.0.0           | V18.10.1.0        | <a href="#">✎</a> <a href="#">↕</a> |

The right-hand side of the image shows the 'Parameter Settings(Demo1)' window. The 'Grid Parameters' section is expanded, showing the 'MPPT parallel connection' toggle switch, which is currently turned off. The 'Set' button is highlighted with callout 6.

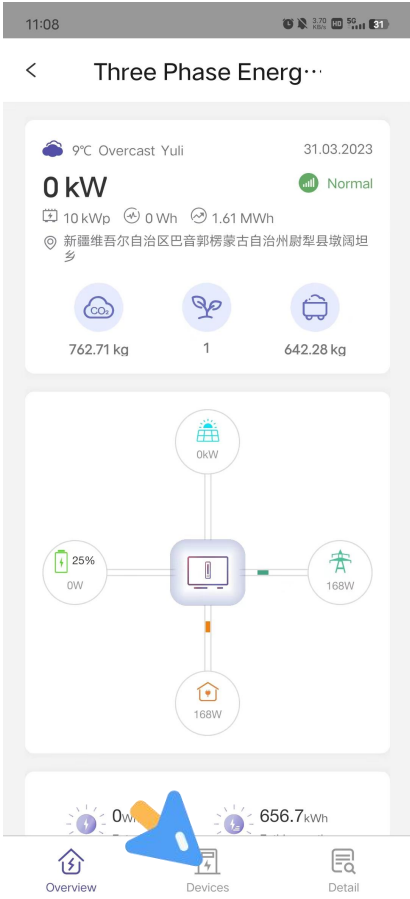
After the physical wiring is completed, enable the MPPT parallel function through one of the three ways.

# Inverter settings-APP

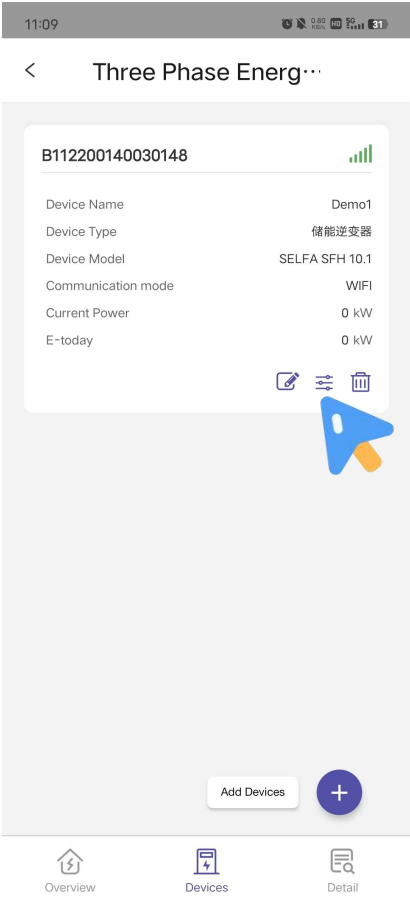
APP settings path:



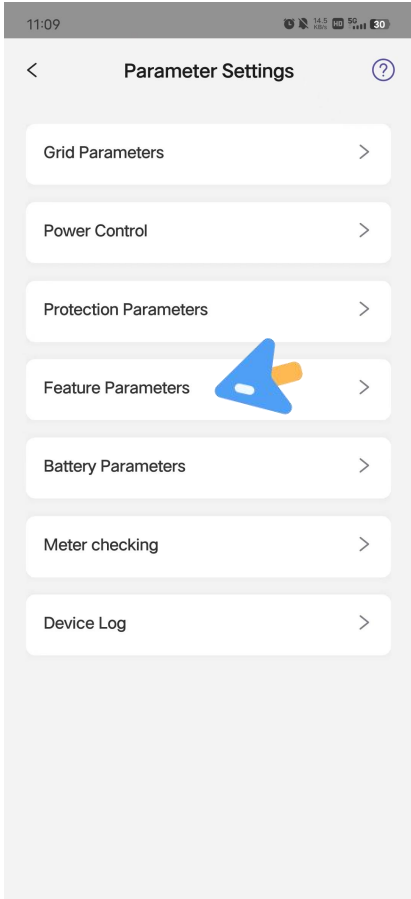
Step1



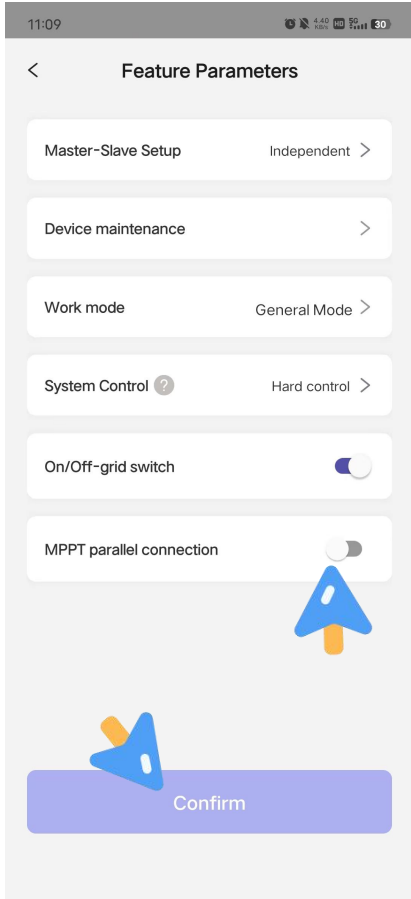
Step2



Step3

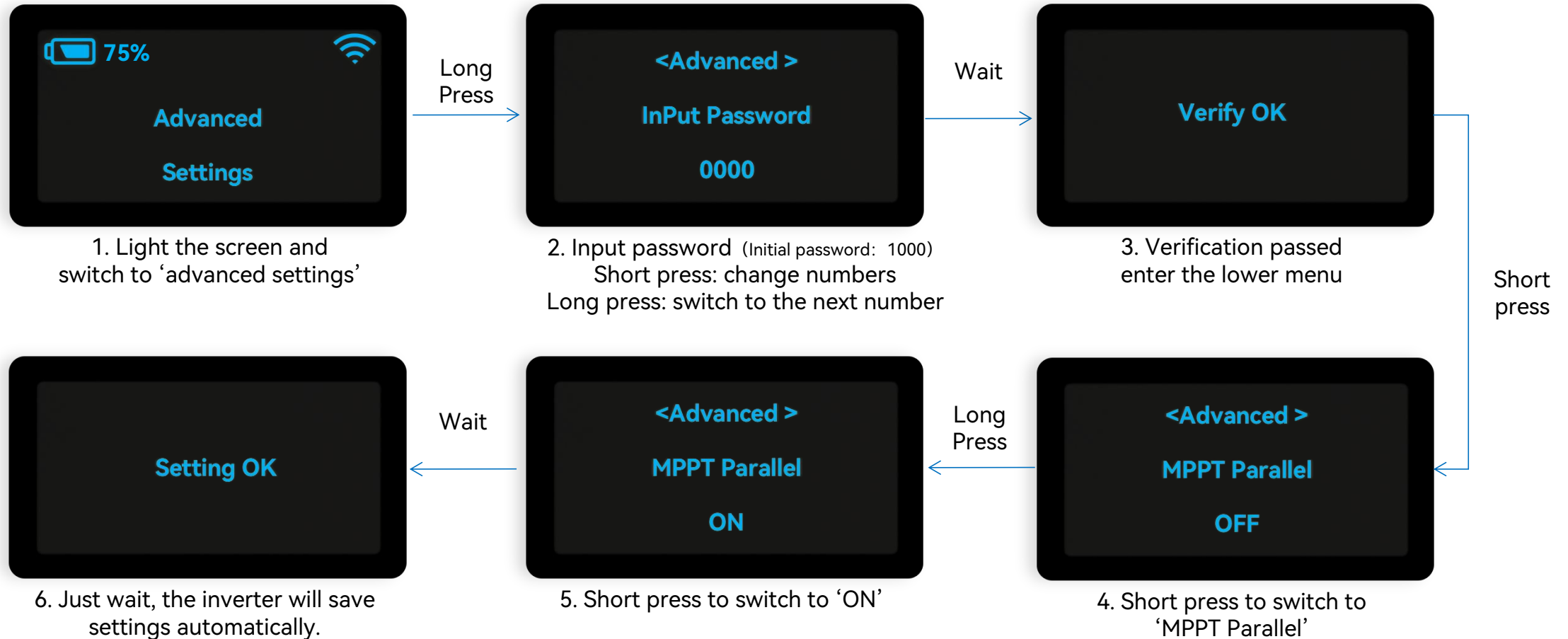


Step4



Step5

# Inverter settings-Screen



## Setting guidance:

Short press(1s): switch window.

Long press(3s): enter the lower Menu.

Wait: no need to press, please wait for 10 seconds and the inverter will automatically save your settings or modifications.



# THANK YOU

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