

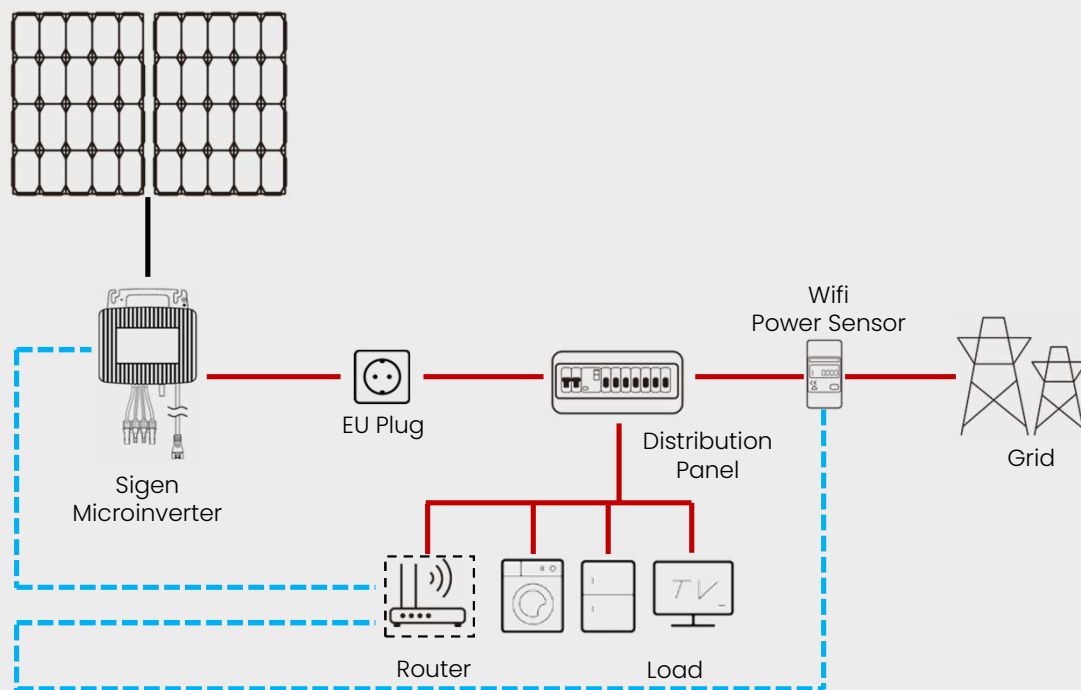
SigenMicro

solution and configuration introduction

SE&MKT 2025/07/04



SigenMicro Balcony Solar



Boundary condition

1. Balcony Solar
2. up to **2 panels**, total power capacity **≤ 800W**
3. Plug & Play connection with Euro Plug

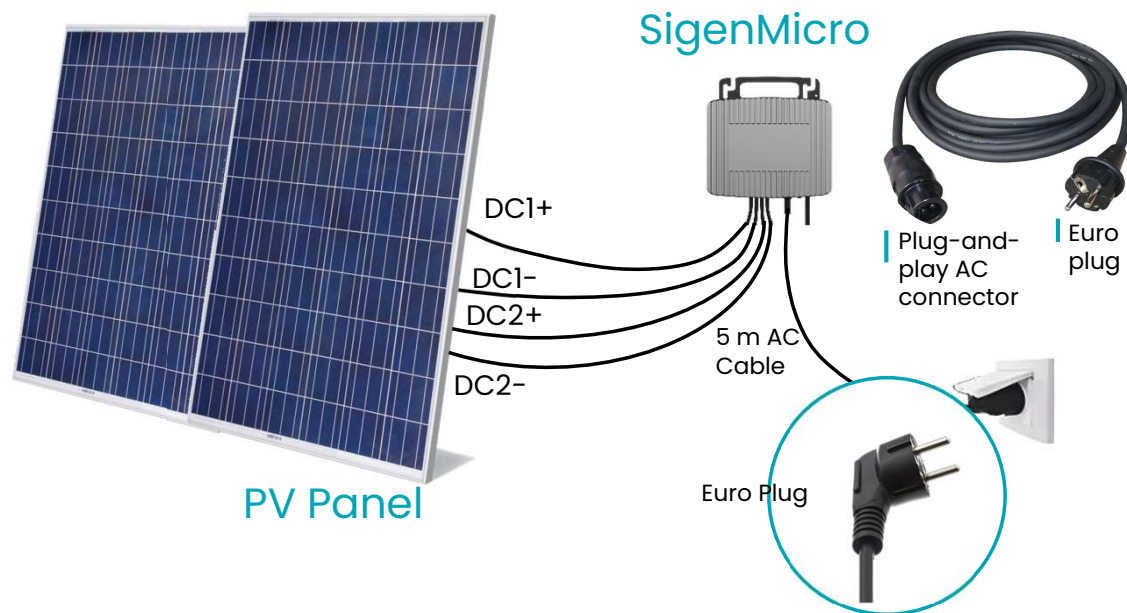
Each system supports :

SigenMicro × **1**

Max AC output power **800 W_{ac}***

SigenMicro Balcony Solar

Scenario



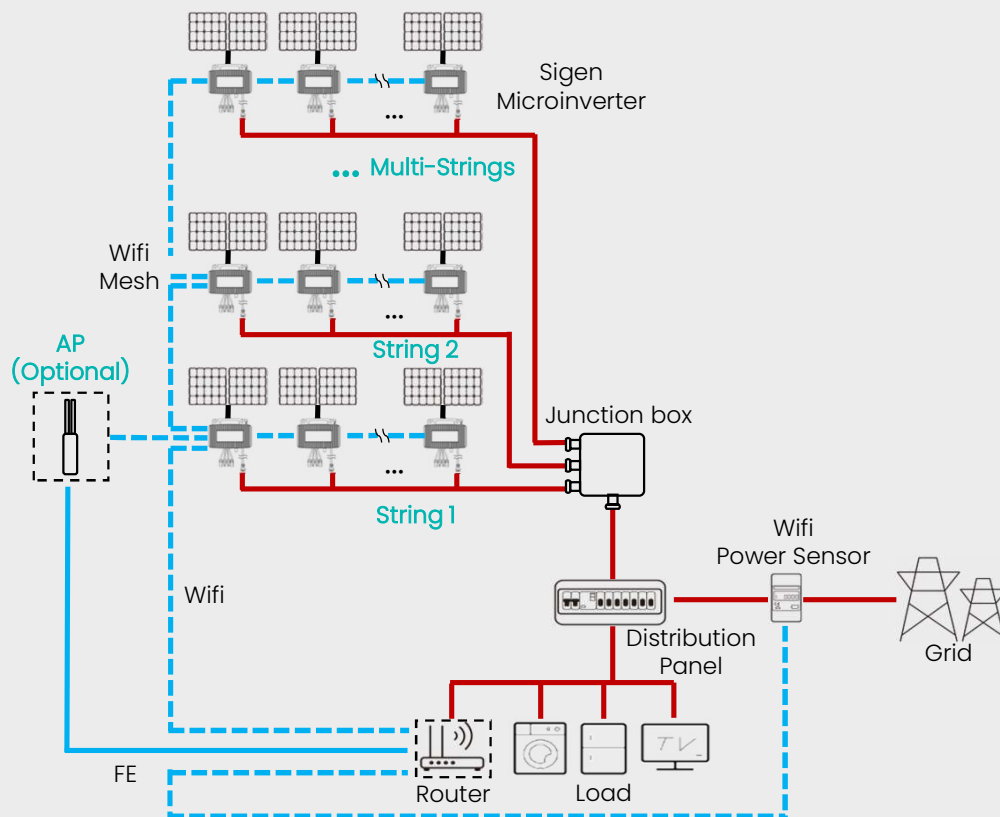
Installation

- 1 Selecting a Location
- 2 Measuring the Distance
- 3 Mount the solar panel support beams
- 4 Install the solar panel on the balcony railing
- 5 Repeat the steps above to install another solar panel
- 6 Connect the solar panel and the microinverter



SigenMicro

On-grid _Sige Phase Micro Inverter Only System



Boundary condition

1. On grid scenario, **multi-string** can be installed according to the site condition
2. up to **50* microinverter** per system
(up to **14 x 1_in_1 microinverter** per string;
up to **7 x 2_in_1 microinverter** per string)
3. Junction box are supplied by installer.
4. Wifi mesh communication, optional AP for wifi extender

Each system supports :

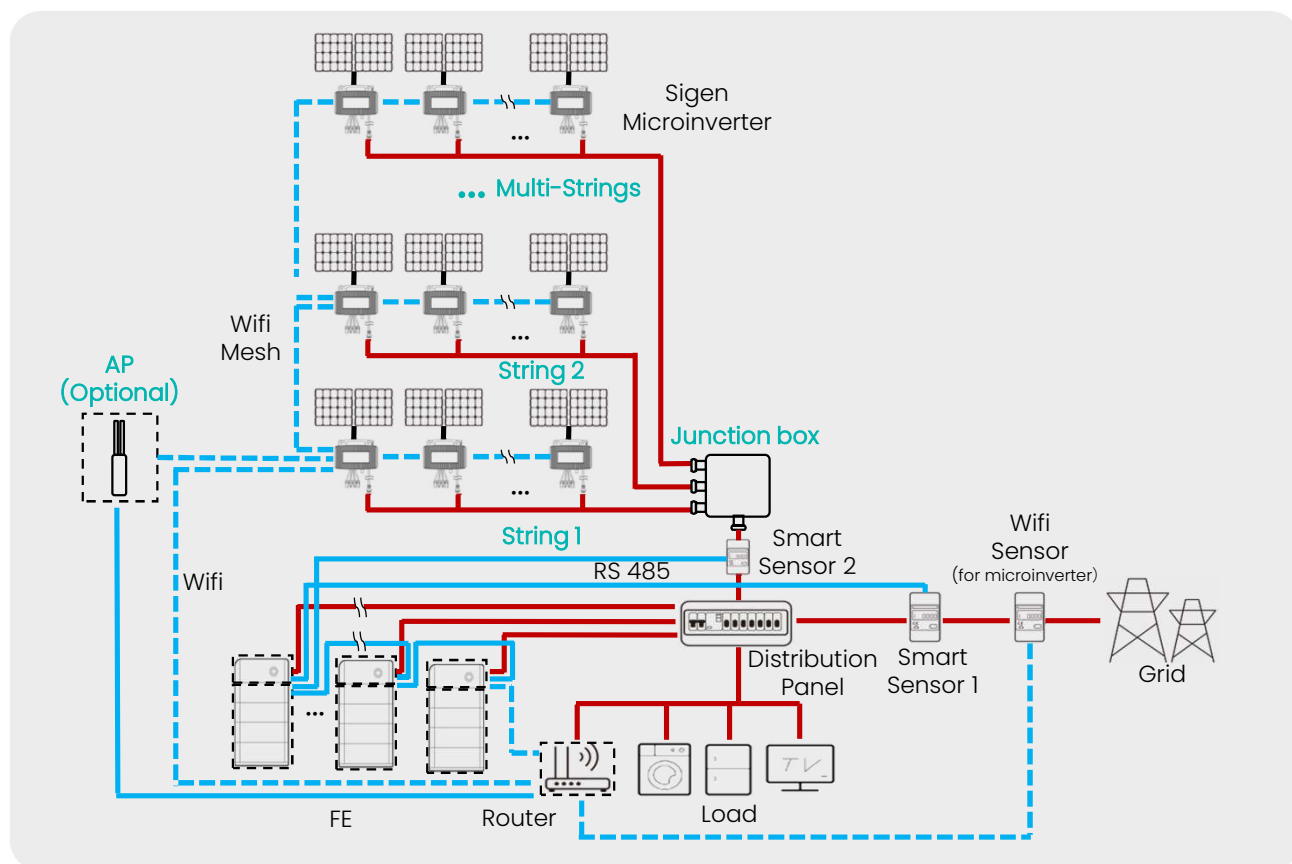
up to SigenMicro × **50** *

Max AC output power **50 kWac**

* This limitation is referring to the system capacity. For string level limit, please refer to the boundary condition for single string installation.

SigenMicro

On-grid _Sigle Phase Micro Inverter Only System



Boundary condition

1. On grid scenario, **multi-string** can be installed according to the site condition
2. up to **50* microinverter** per system (up to **14 * 1_in_1 microinverter** per string; up to **7 * 2_in_1 microinverter** per string)
3. Junction box for **multi-string** installation are supplied by installer.
4. optional AP for wifi extender, optional AP for wifi extender
5. **No communication** between SigenStor and microinverter

Each system supports :

Up to SigenMicro × **50 ***;

Up to SigenStor × **20** ;

Max AC output power **50 kWac** (from Microinverter)

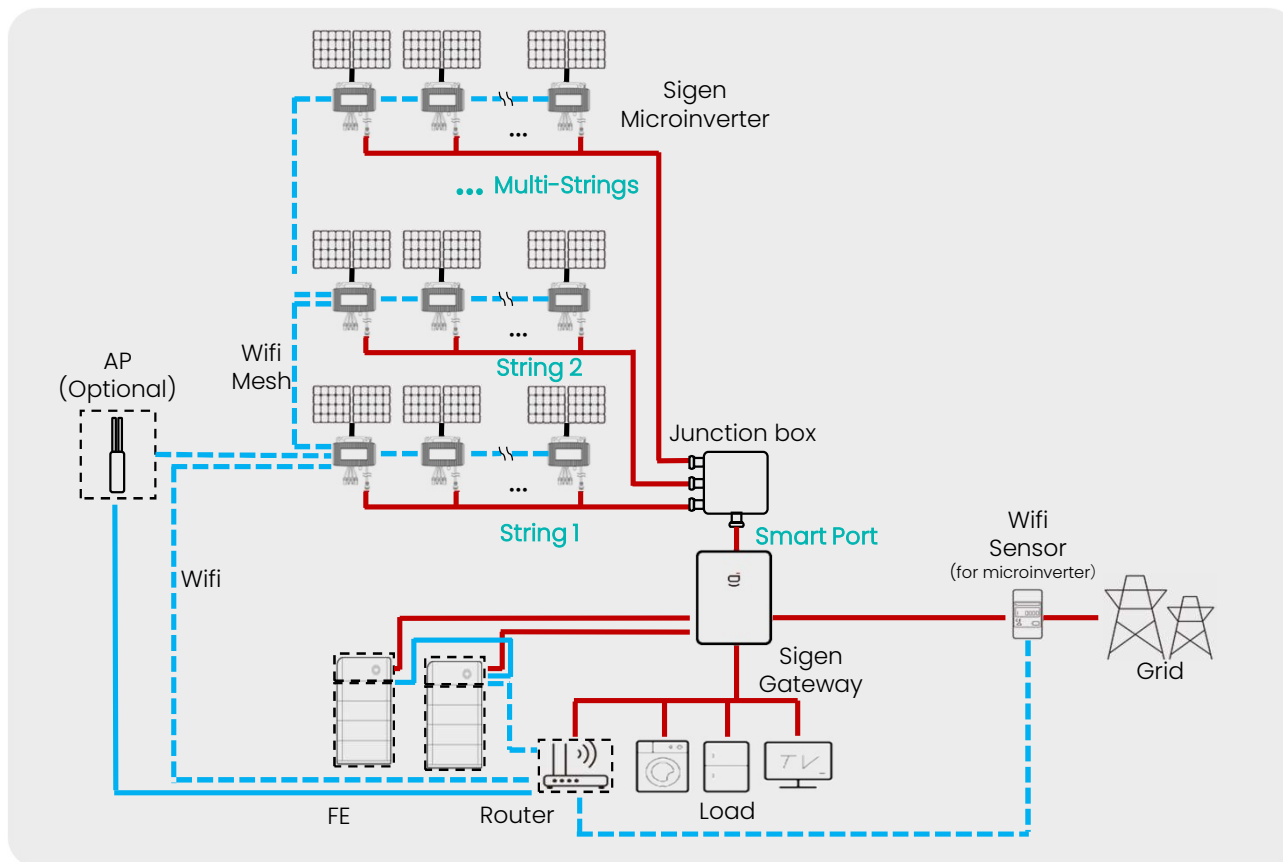
Max AC output power **240 kWac** (from SigenStor)

Max. ESS capacity **1080 kWh**

* This limitation is referring to the system capacity. For string level limit, please refer to the boundary condition for single string installation.

SigenMicro

Backup_Single Phase Micro Inverter + SigenStor



Boundary condition

1. Unstable grid, **whole backup scenario**, **multi-string** installation
2. up to **36* microinverter** per system (up to **14 * 1_in_1** microinverter per string; up to **7 * 2_in_1** microinverter per string)
3. Junction box for **multi-string** installation are supplied by installer.
4. Wifi mesh communication optional AP for wifi extender
5. **No communication** between SigenStor and microinverter

Each system supports :

Up to SigenMicro × **36** (400W) *;

Up to SigenStor × **2**;

Max AC output power **14.5** kWac (from Microinverter)

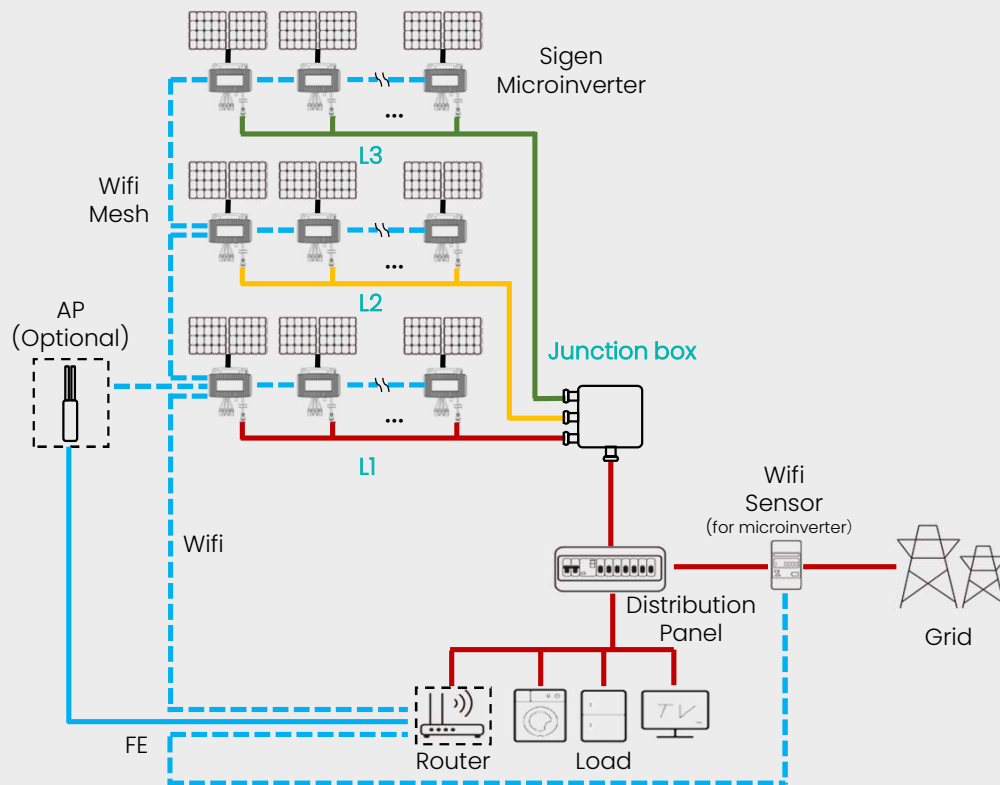
Max AC output power **18** kWac (from SigenStor)

Max. ESS capacity **108** kWh

* This limitation is referring to the system capacity. For string level limit, please refer to the boundary condition for single string installation.

SigenMicro

On-grid _Three Phase Micro Inverter Only



Boundary condition

1. On grid scenario, **Three phase** installation
2. up to **50*microinverter** per system
(up to **14 * 1_in_1 Microinverter/string**;
up to **7 * 2_in_1 Microinverter/string**)
3. AC combiner boxes (three phase) are supplied by installer.
4. Wifi mesh communication, optional AP for wifi extender

Each system supports :

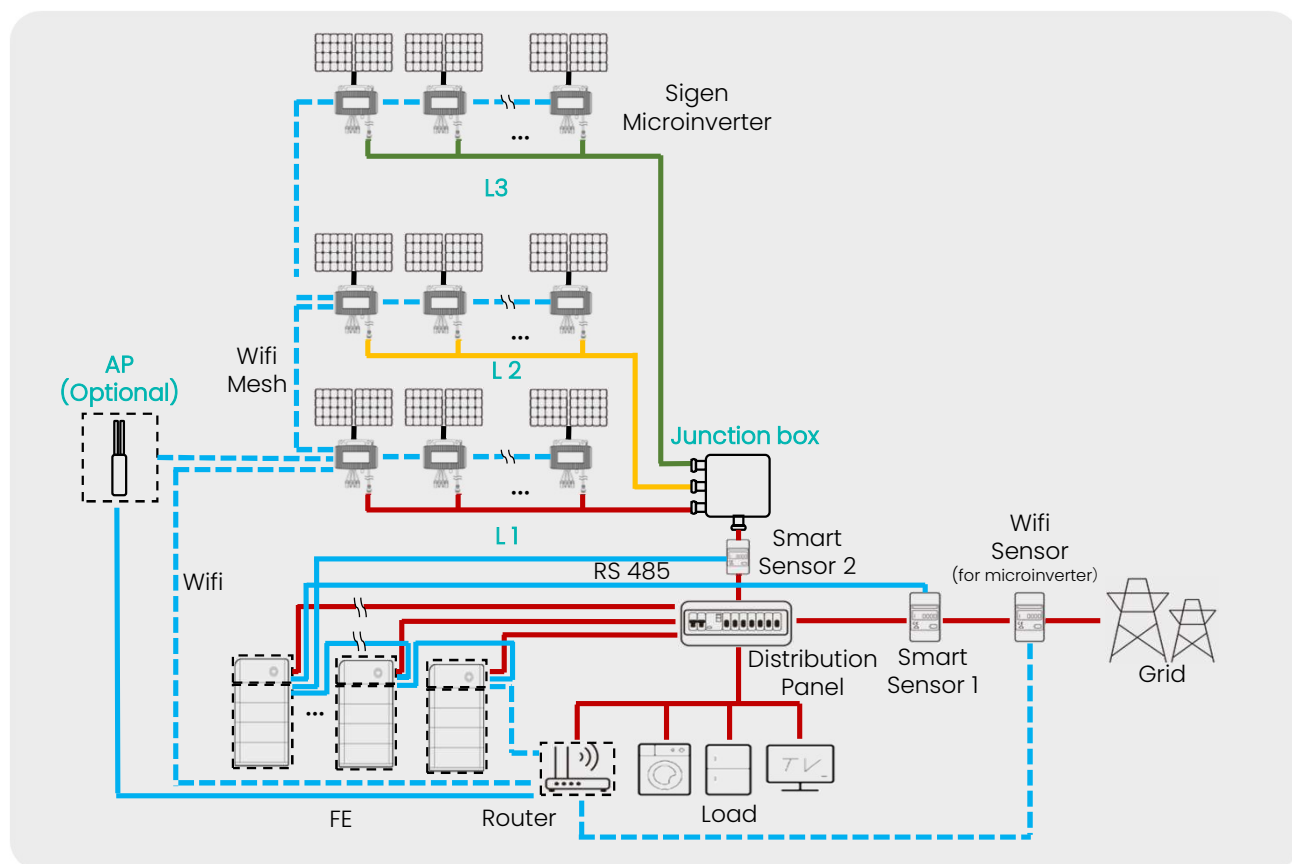
up to SigenMicro × **50***

Max AC output power **50 kWac**

* This limitation is referring to the system capacity. For string level limit, please refer to the boundary condition for single string installation.

SigenMicro

On-grid _Three Phase Micro Inverter Only System



Boundary condition

1. On grid scenario, **multi-string** can be installed according to the site condition
2. up to **50* microinverter** per system
(up to **14 * 1_in_1 microinverter** per string;
up to **7 * 2_in_1 microinverter** per string)
3. Junction box for **multi-string** installation are supplied by installer.
4. optional AP for wifi extender, optional AP for wifi extender
5. **No communication** between SigenStor and microinverter

Each system supports :

Up to SigenMicro × **50 ***;

Up to SigenStor × **20** ;

Max AC output power **50 kWac** (from Microinverter)

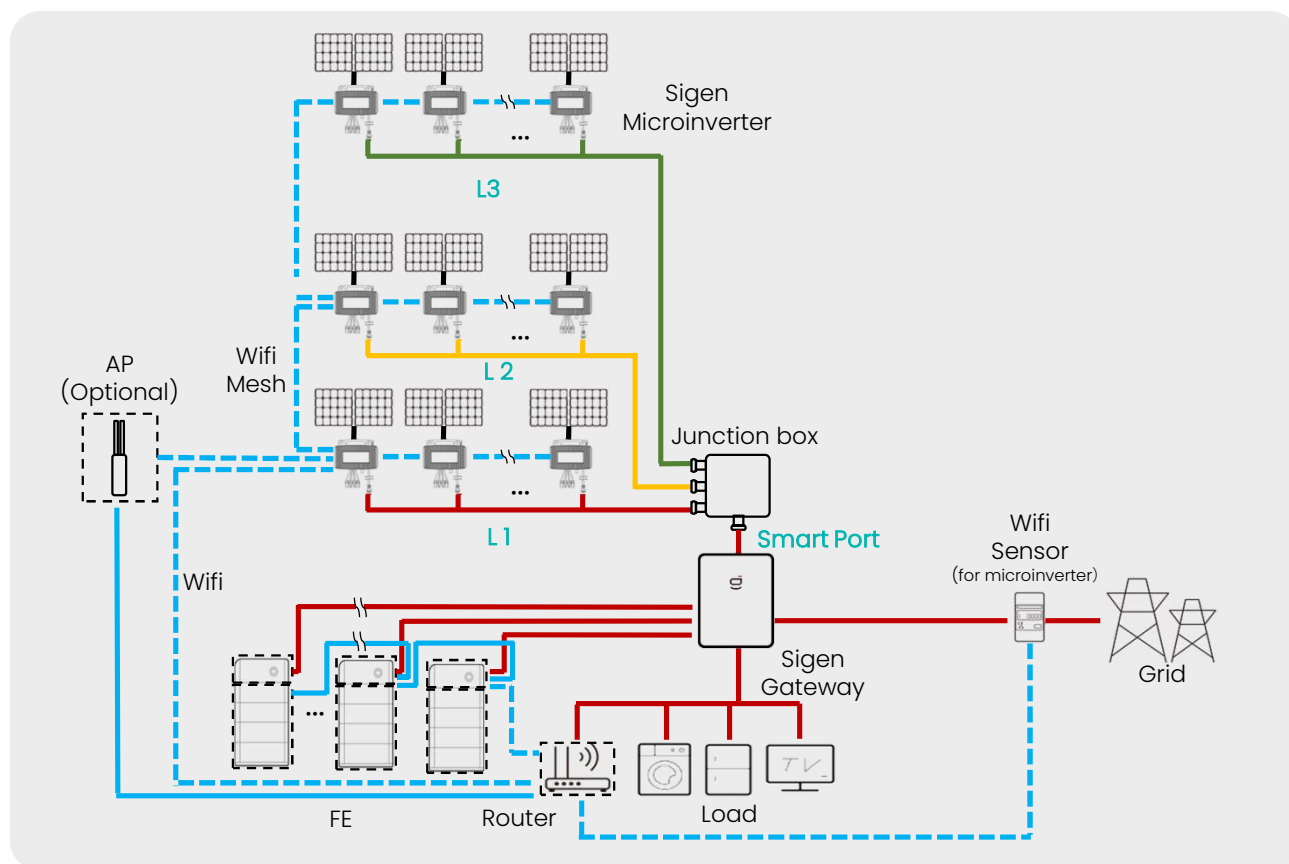
Max AC output power **600 kWac** (from SigenStor)

Max. ESS capacity **1080 kWh**

* This limitation is referring to the system capacity. For string level limit, please refer to the boundary condition for single string installation.

SigenMicro

Backup_Three Phase Micro Inverter + SigenStor



Boundary condition

1. Unstable grid, **whole backup scenario**, **multi-string** installation
2. up to **50* microinverter** per system
(up to **14 * 1_in_1 microinverter** per string;
up to **7 * 2_in_1 microinverter** per string)
3. Junction box for **multi-string** installation are supplied by installer.
4. Wifi mesh communication optional AP for wifi extender
5. **No communication** between SigenStor and microinverter

Each system supports :

Up to SigenMicro × **50 ***;

Up to SigenStor × **20** ;

Max AC output power **50 kWac** (from Microinverter)

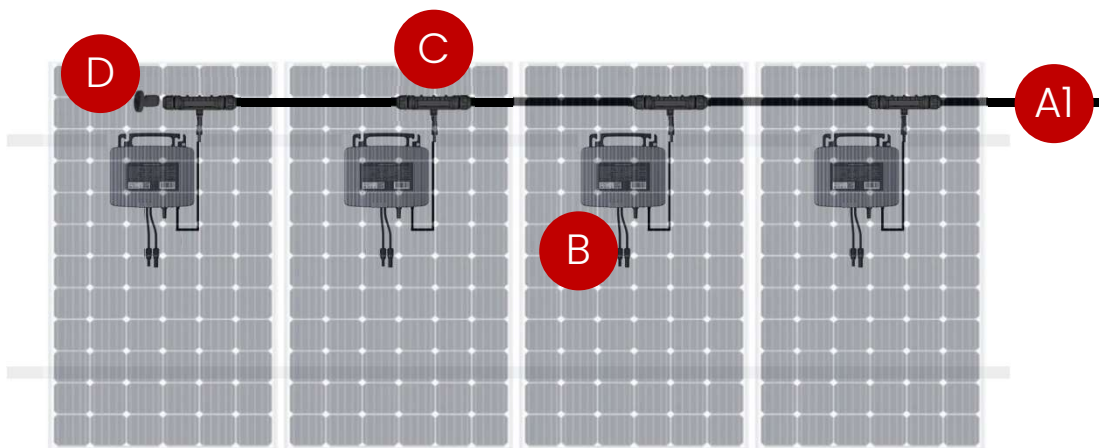
Max AC output power **600 kWac** (from SigenStor)

Max. ESS capacity **1080 kWh**

* This limitation is referring to the system capacity. For string level limit, please refer to the boundary condition for single string installation.

SigenMicro

1_in_1 vertical installation



Characteristic:

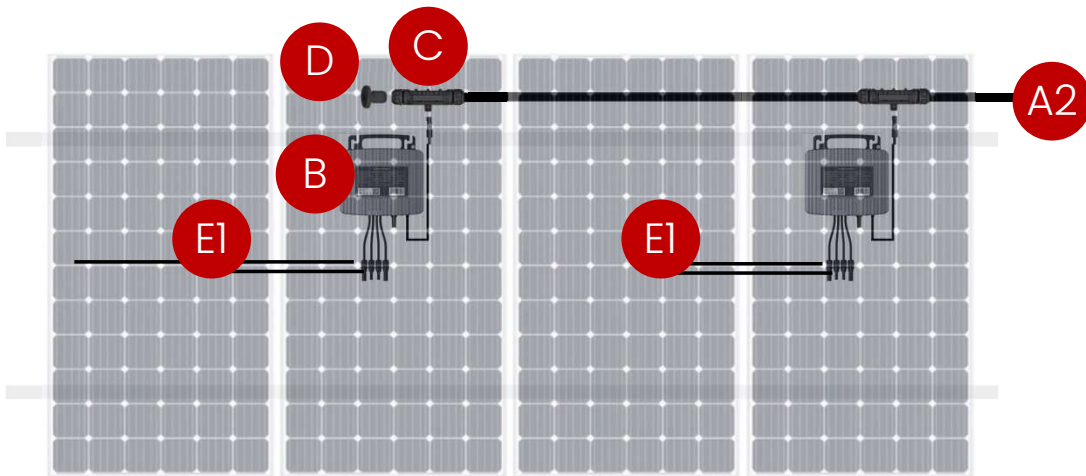
- 1 string.
- 1_in_1 microinverter** system.
- PV panels are installed vertically and next to each other.

Equipment	Quantity	Comment
A1. AC BUS cable	1	1.1m connectors interval
B. Microinverter	1~14	1~9(400, 2.5 mm ²) 1~7(500, 2.5 mm ²) 1~14(400, 4.0 mm ²) 1~11(500, 4.0 mm ²)
C. AC Connector	1~14	1. Equal to the No. of microinverter ; 2. In series with 1.1 m interval AC BUS Cable.
D. AC BUS End Cap	1	Same as the No. of BUS cable string



SigenMicro

2_in_1 vertical installation



Characteristic:

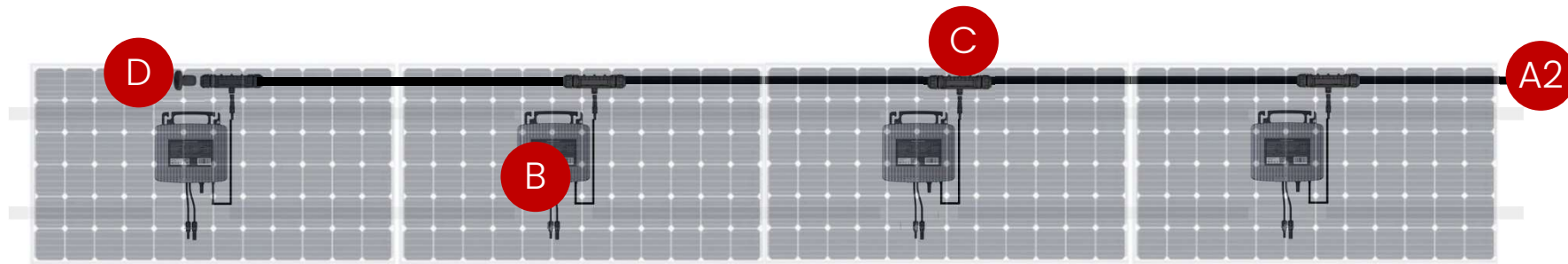
1. **One** string.
2. **2_in_1** microinverter system.
3. PV panels are installed vertically and next to each other.

Equipment	Quantity	Comment
A2. AC BUS cable	1	2.3m connectors interval
B. Microinverter	1~7	1~4(800, 2.5 mm ²) 1~3(1000, 2.5 mm ²) 1~7(800, 4.0 mm ²) 1~5(1000, 4.0 mm ²)
C. AC Connector	1~7	1. Equal to the No. of microinverter ; 2. In series with 2.3 m interval AC BUS Cable.
D. AC BUS End Cap	1	Same as the No. of BUS cable string
E1. DC Extension Cable (1m)	2~14	equal to 2n (n= No. of microinverter)



SigenMicro

1_in_1 horizontal installation



Characteristic:

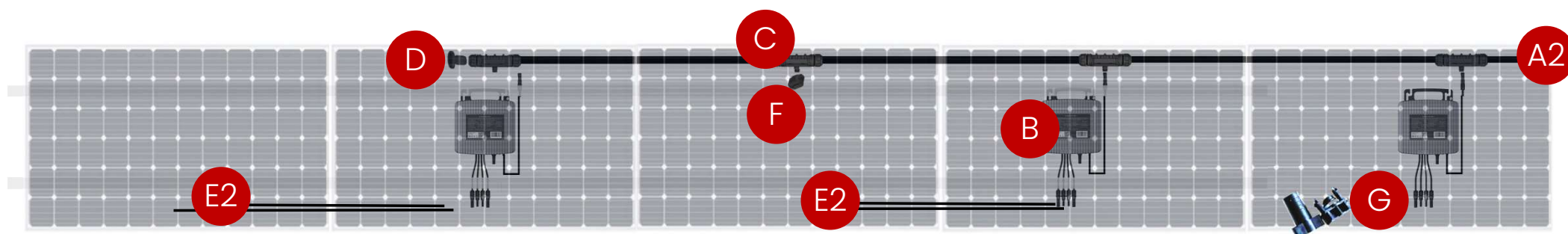
1. **1** string.
2. **1_in_1 microinverter** system.
3. PV panels are installed horizontally and next to each other.

Equipment	Quantity	Comment
A2. AC BUS cable	1	2.3m connectors interval
B. Microinverter	1~14	1~9(400, 2.5 mm ²); 1~14(400, 4.0 mm ²) 1~7(500, 2.5 mm ²); 1~11(500, 4.0 mm ²)
C. AC Connector	1~14	1. Equal to the No. of microinverter ; 2. In series with 2.3 m interval AC BUS Cable.
D. AC BUS End Cap	1	Same as the No. of BUS cable string



SigenMicro

2_in_1 horizontal installation



Characteristic:

1. **1** string.
2. **2_in_1 microinverter** system.
3. PV panels are installed horizontally and next to each other.

Equipment	Quantity	Comment
A2. AC BUS cable	1	2.3m connectors interval
B. Microinverter	1~6	1~4(800, 2.5 mm ²); 1~6(800, 4.0 mm ²) 1~3(1000, 2.5 mm ²); 1~5(1000, 4.0 mm ²)
C. AC Connector	1~11	1. Equal to 2n-1 (n = the No. of microinverter) 2. In series with 2.3 m interval AC BUS Cable.
D. AC BUS End Cap	1	Same as the No. of BUS cable string
E2. DC Extension Cable (2m)	2~12	Equal to 2n (n= No. of microinverter)
F. Branch Cap	0~7	Equal to n-1 (n= No. of microinverter)
G. MC4 Terminals	1	1 pair of male and female



NEW

SigenMicro AC Cable Kit

SigenMicro AC Cable Kit-40-110-2.5

2.5mm²  AC bus cable x 1



End cap x **8**



Trunk
unlock tool x 1



Branch cap x **10**



Branch
unlock tool x 1

SigenMicro AC Cable Kit-20-230-2.5

2.5mm²  AC bus cable x 1



End cap x **4**



Trunk
unlock tool x 1



Branch cap x **5**



Branch
unlock tool x 1

SigenMicro AC Cable Kit-40-110-4.0

4.0mm²  AC bus cable x 1



End cap x **8**



Trunk
unlock tool x 1



Branch cap x **10**



Branch
unlock tool x 1

SigenMicro AC Cable Kit-20-230-4.0

4.0mm²  AC bus cable x 1



End cap x **4**



Trunk
unlock tool x 1



Branch cap x **5**



Branch
unlock tool x 1



NEW

SigenMicro AC Cable Kit (US)

SigenMicro US AC Cable Kit-40-3.6ft-12

3.6ft interval
40 connectors
12AWG AC bus cable x 1

End cap x 8

Branch cap x 10

Trunk unlock tool x 1

Branch unlock tool x 1

SigenMicro US AC Cable Kit-20-7.5ft-12

7.5ft interval
20 connectors
12AWG AC bus cable x 1

End cap x 4

Branch cap x 5

Trunk unlock tool x 1

Branch unlock tool x 1

SigenMicro US AC Cable Kit-40-3.6ft-10

1.1m interval
40 connectors
10AWG AC bus cable x 1

End cap x 8

Branch cap x 10

Trunk unlock tool x 1

Branch unlock tool x 1

SigenMicro US AC Cable Kit-20-7.5ft-10

7.5ft interval
20 connectors
10AWG AC bus cable x 1

End cap x 4

Branch cap x 5

Trunk unlock tool x 1

Branch unlock tool x 1



NEW

SigenMicro Plug & DC Cable

SigenMicro Plug Cable-500-1.5

1.5mm² 5 m AC Cable Europlug

Min. MOQ
20 pcs/box

SigenMicro DC Cable-100/3.28ft

1 m DC Cable 4.0mm²

Min. MOQ
100 pcs/box

SigenMicro DC Cable-200/6.56ft

2 m DC Cable 4.0mm²

Min. MOQ
80 pcs/box



Thank you.

Enjoy Green Energy



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