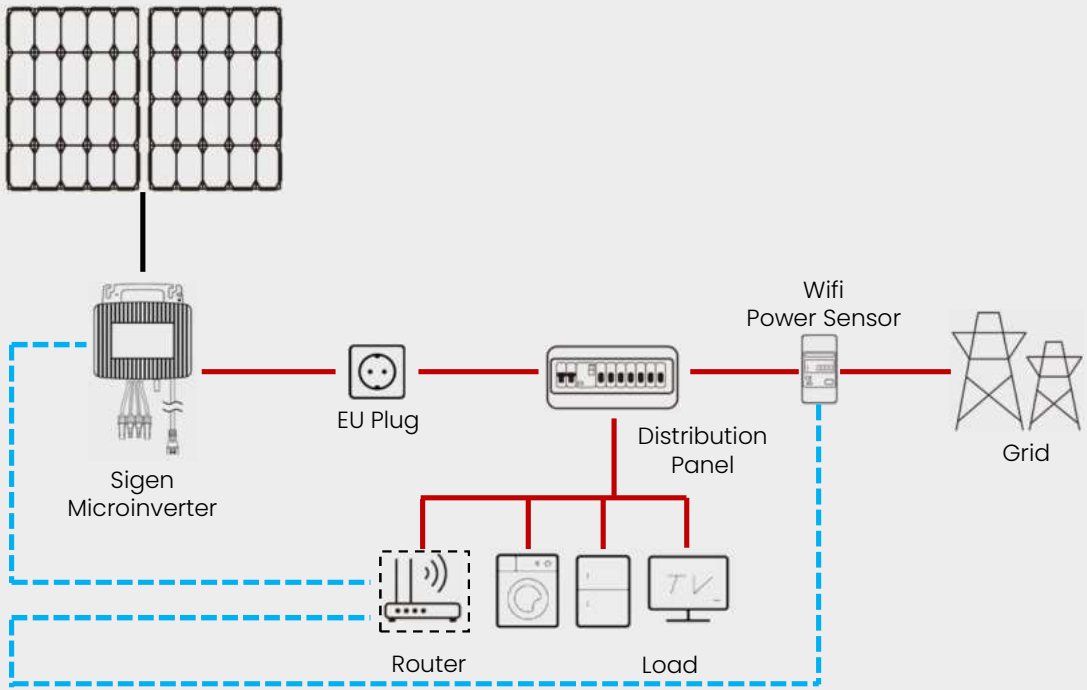
SigenMicro
solution and configuration introduction

SE&MKT 2025/07/04

SIGENERGY

SigenMicro
Balcony Solar



Boundary condition

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

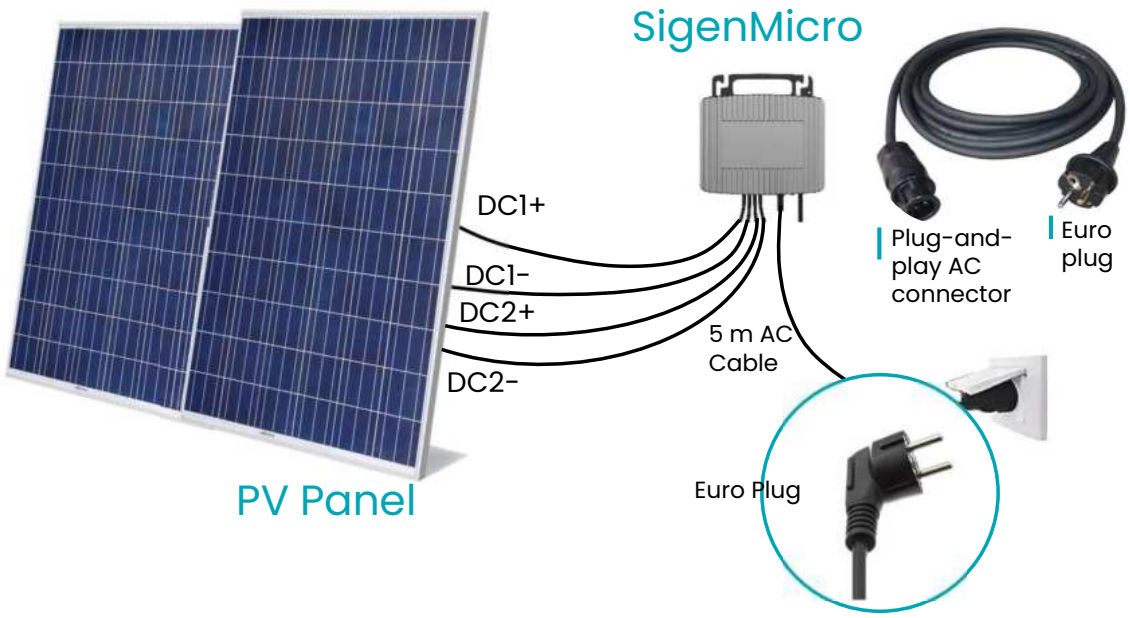
Each system supports :

SigenMicro × 1

Max AC output power 800 Wac*

SigenMicro
Balcony Solar

Scenario

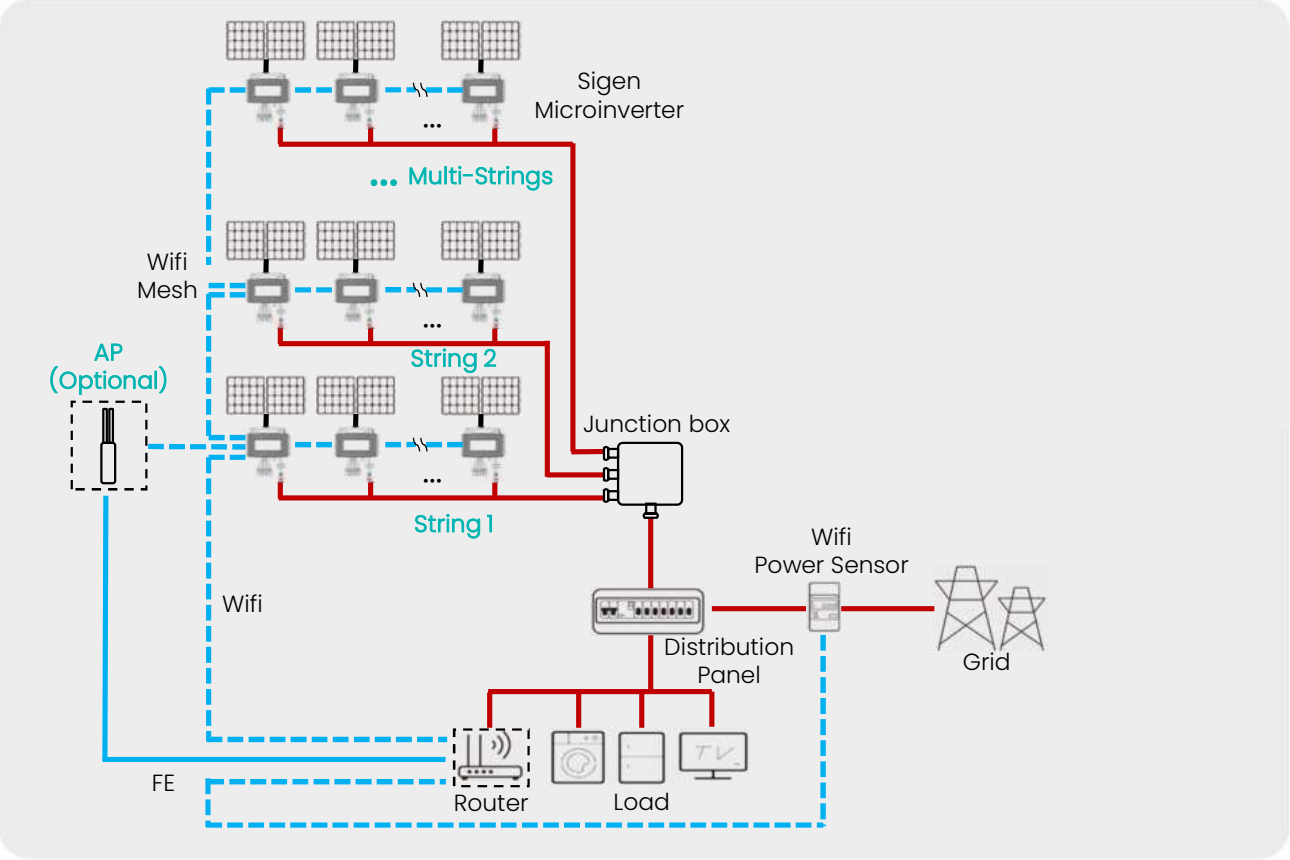


Installtion

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 _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 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 :

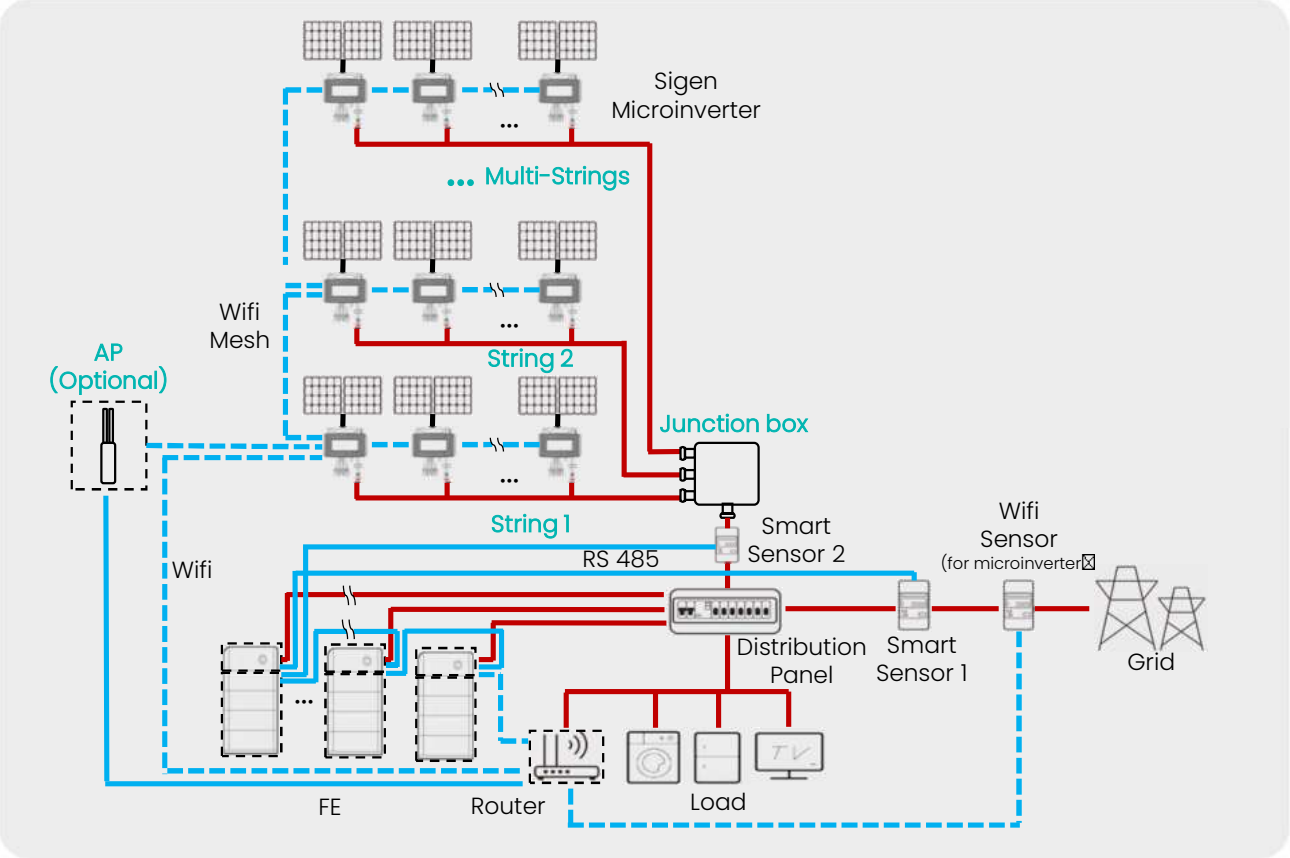
up to SigenMicro × 50 *

Max AC output power 50 kWac

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

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)

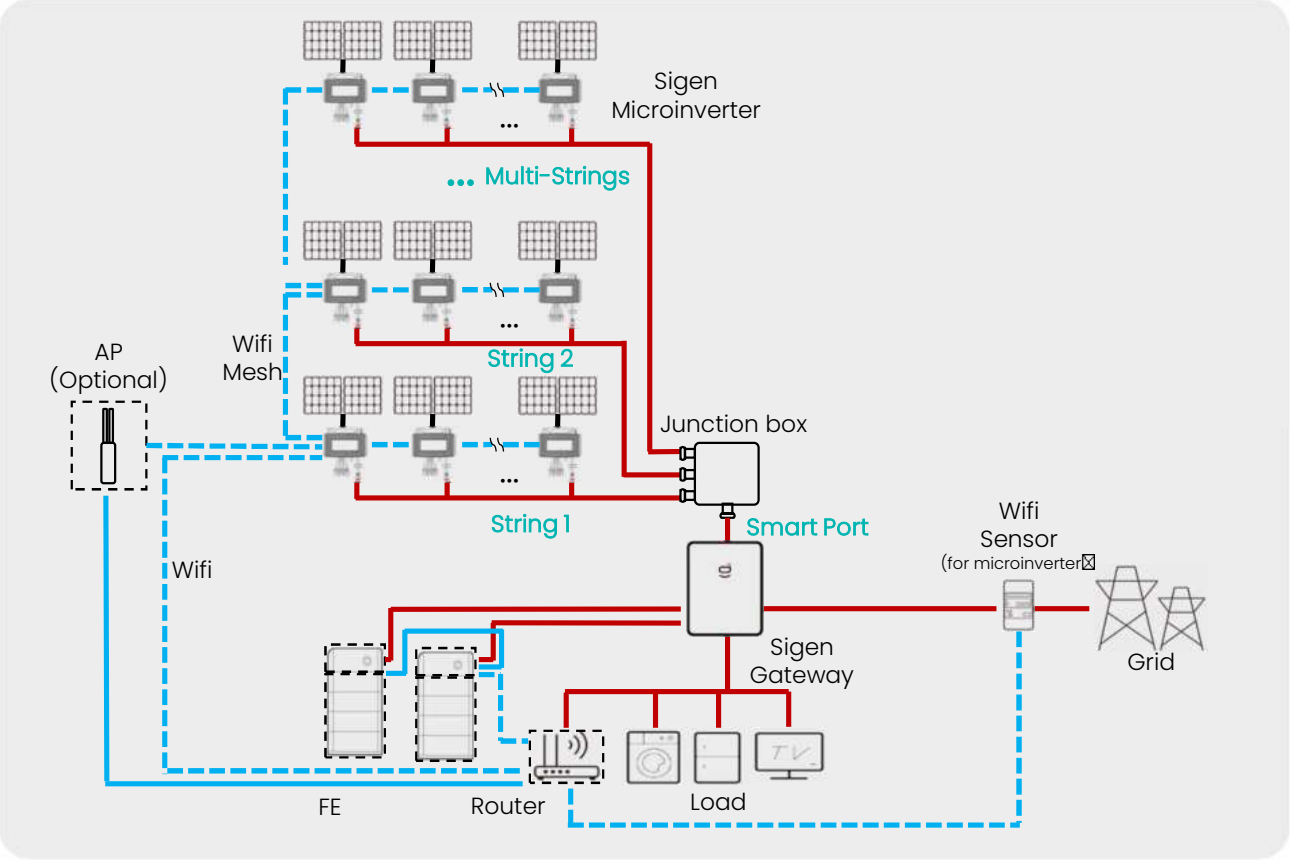
Max AC output power 240 kWac (from SigenStor)

Max. ESS capacity 1080 kWh

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

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 communicationoptional 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)

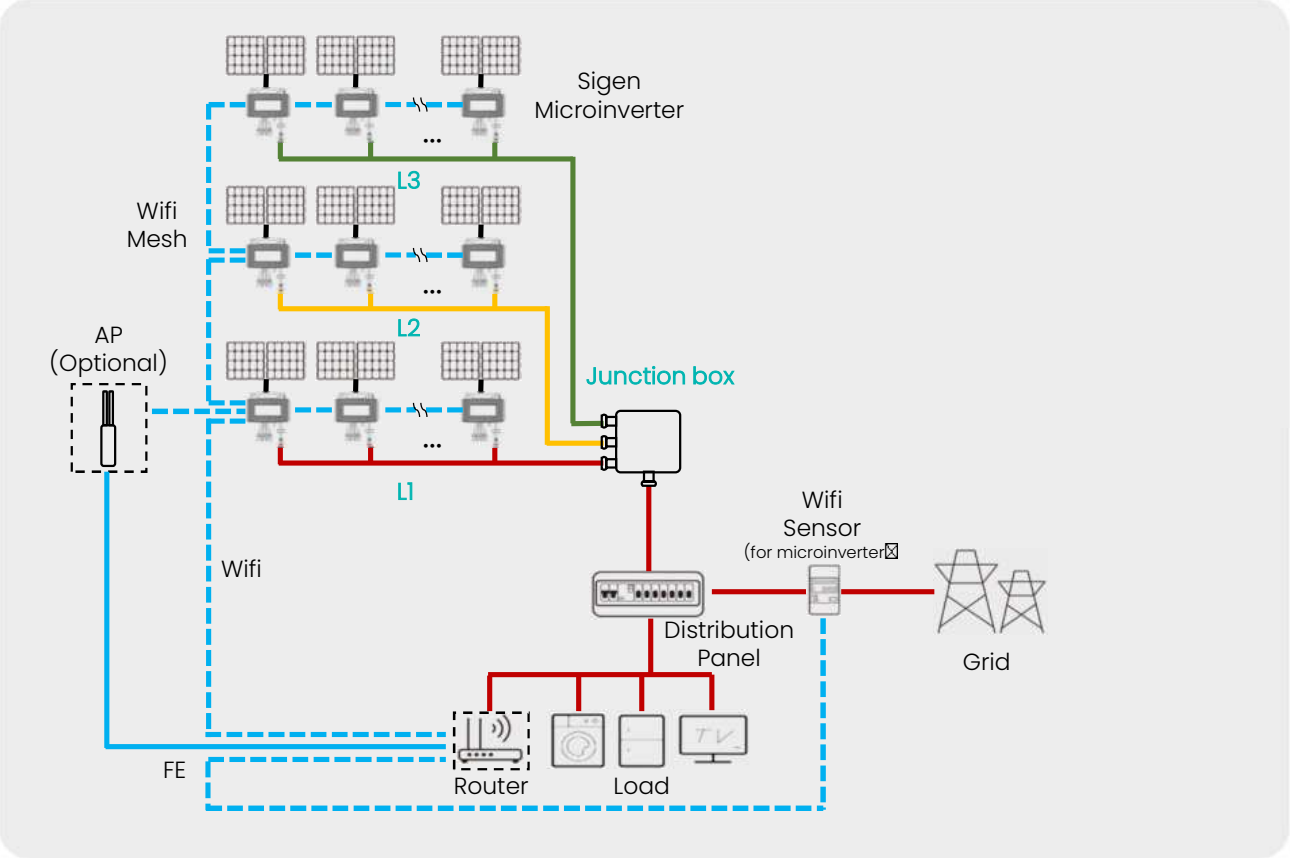
Max AC output power 18 kWac (from SigenStor)

Max. ESS capacity 108 kWh

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

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 :

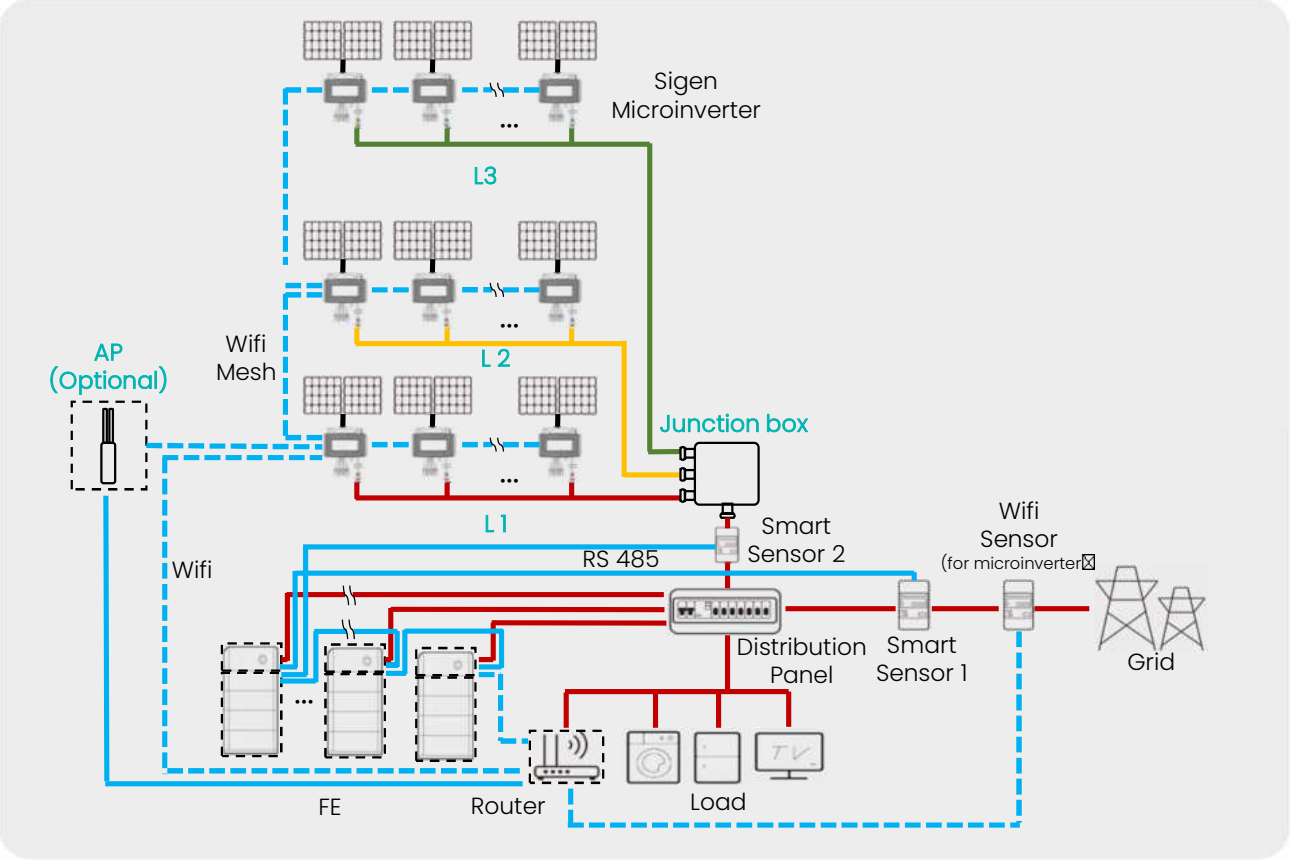
up to SigenMicro × 50 *

Max AC output power 50 kWac

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

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)

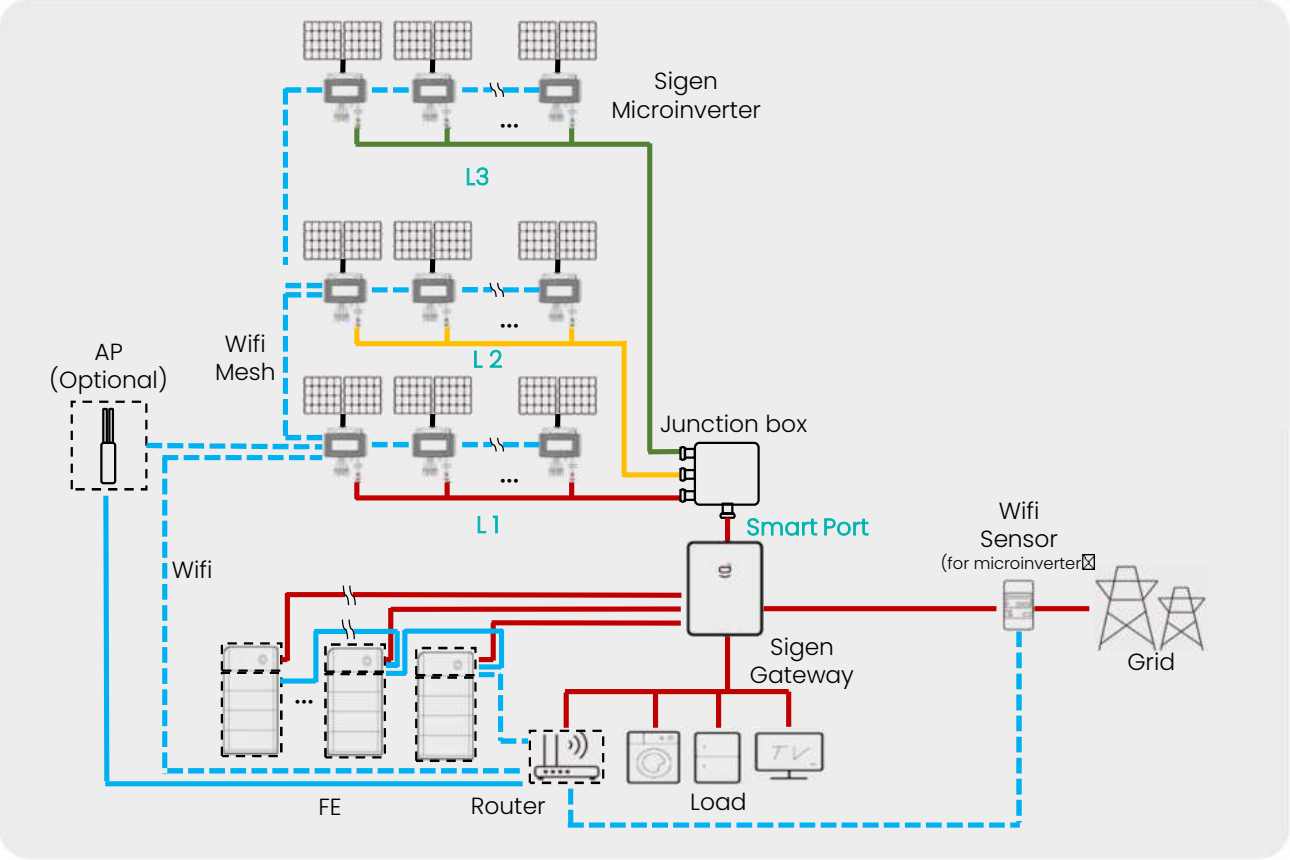
Max AC output power 600 kWac (from SigenStor)

Max. ESS capacity 1080 kWh

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

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 communicationoptional AP for wifi extender
5. No communication between SigenStor and microinverter

Each system supports :

Up to SigenMicro × 50 *;

Up to SigenStor × 20 ;

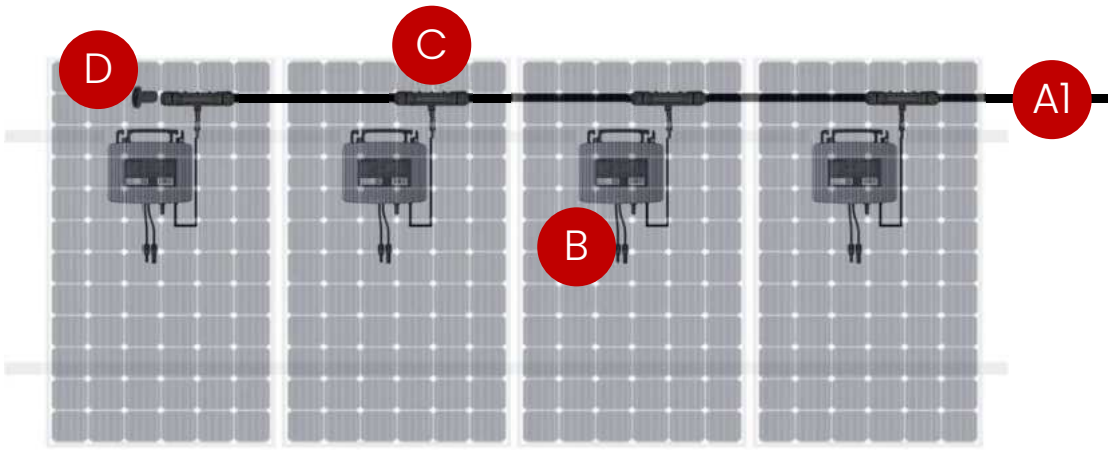
Max AC output power 50 kWac (from Microinverter)

Max AC output power 600 kWac (from SigenStor)

Max. ESS capacity 1080 kWh

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

SigenMicro
1_in_1 vertical installation

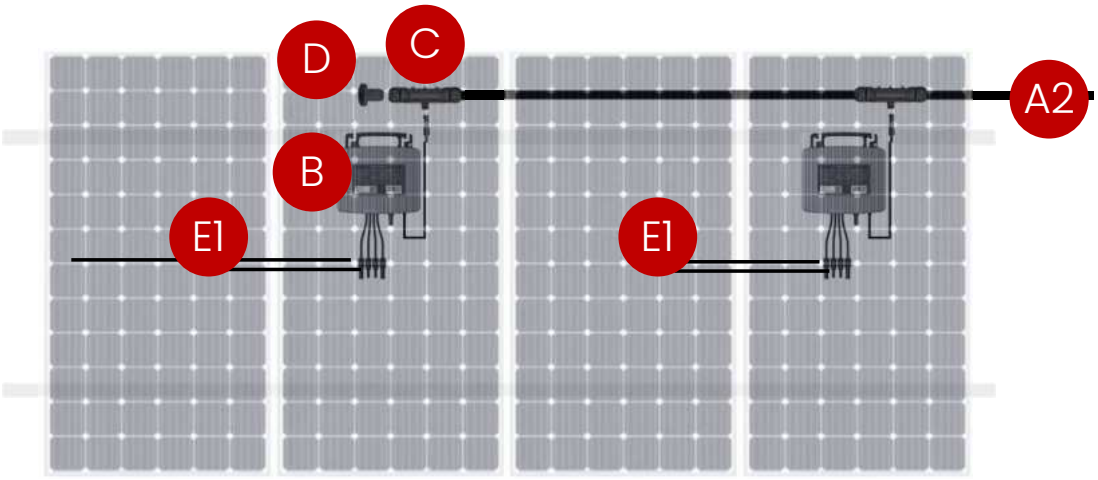


Characteristic

1. **1** string.
2. **1_in_1 microinverter** system.
3. 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

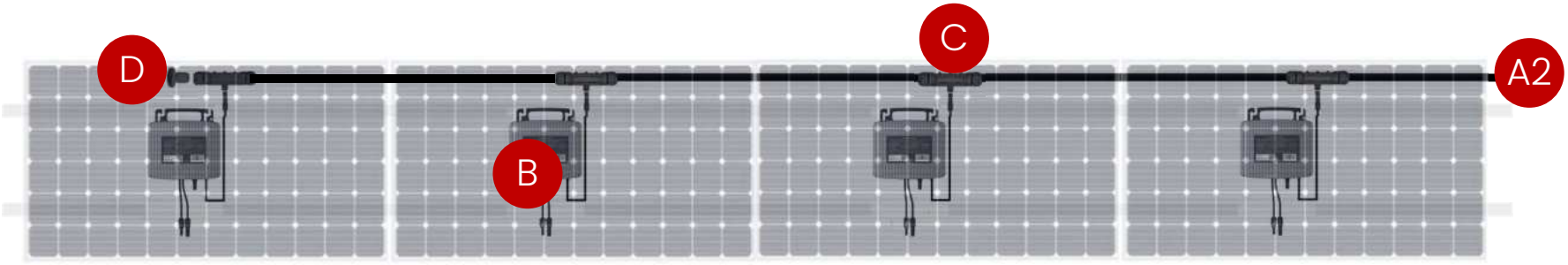


Characteristic

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

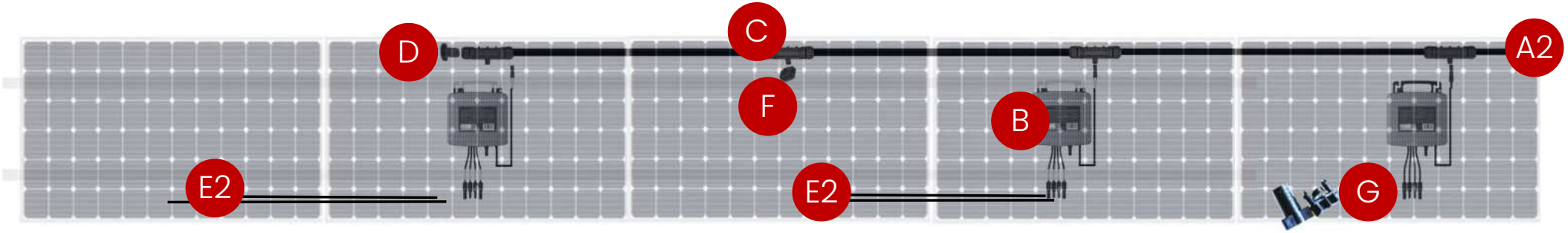


Characteristic

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 mm2); 1~14(400, 4.0 mm2) 1~7(500, 2.5 mm2);1~11(500, 4.0 mm2)
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

End cap x 8

Branch cap x 10

Trunk unlock tool x 1

Branch unlock tool x 1

SigenMicro AC Cable Kit-20-230-2.5

End cap x 4

Branch cap x 5

Trunk unlock tool x 1

Branch unlock tool x 1

SigenMicro AC Cable Kit-40-110-4.0

End cap x 8

Branch cap x 10

Trunk unlock tool x 1

Branch unlock tool x 1

SigenMicro AC Cable Kit-20-230-4.0

End cap x 4

Branch cap x 5

Trunk unlock tool x 1

Branch unlock tool x 1

NEW

SigenMicro AC Cable Kit□US□

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


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


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


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


End cap x 4


Branch cap x 5

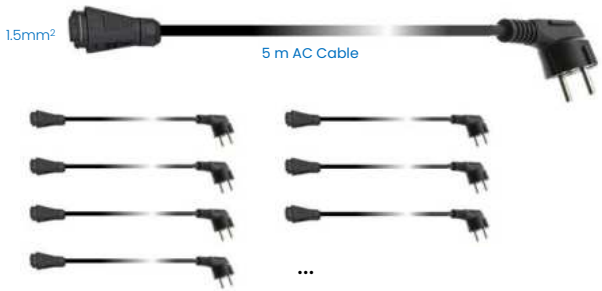

Trunk unlock tool x 1


Branch unlock tool x 1

NEW

SigenMicro Plug & DC Cable

SigenMicro Plug Cable-500-1.5



Min. MOQ
20 pcs/box

SigenMicro DC Cable-100/3.28ft

Min. MOQ
100 pcs/box

SigenMicro DC Cable-200/6.56ft

Min. MOQ
80 pcs/box

Thank you.

Enjoy Green Energy