



B-Box Pro 13.8 Minimum configuration list

1 MINIMUM CONFIGURATION WITH SMA SUNNY ISLAND INVERTER

Inverter Firmware version: minimum required firmware version for SI is V1.73.

B-Box firmware version: minimum required firmware version for BMU is V2.7.

1 Phase on Grid

Inverter Type	B-Box 13.8
SI 3.0M	≥1
SI 4.4M	≥1
SI 6.0H	≥1
SI 8.0H	≥1

3 Phase on Grid

Inverter Type	B-Box 13.8
SI 3.0M	≥1
SI 4.4M	≥1
SI 6.0H	≥1
SI 8.0H	≥1

1 Phase off Grid

Inverter Type	B-Box 13.8
SI 3.0M	≥1
SI 4.4M	≥1
SI 6.0H	≥1
SI 8.0H	≥1

3 Phase off Grid

Inverter Type	B-Box 13.8
SI 3.0M	≥2
SI 4.4M	≥2
SI 6.0H	≥3
SI 8.0H	≥3

Remark: Maximum quantity of B-Box13.8 is 32.

2 MINIMUM CONFIGURATION WITH GOODWE INVERTER

2.1 Minimum configuration with ES

Inverter Firmware version: minimum required firmware version for ARM is 03.

B-Box firmware version: minimum required firmware version for BMU is V4-10.

1 Phase on Grid

Inverter Type	B-Box 13.8
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GW3648D-ES	≥1 ¹
GW5048D-ES	≥1 ¹
1 Phase off Grid	
Inverter Type	B-Box 13.8
GW3648D-ES	≥1
GW5048D-ES	≥1
Remark: Maximum quantity of B-Box13.8 is 32.	

2.2 Minimum configuration with BP

Inverter Firmware version: minimum required firmware version for ARM is 03.

B-Box firmware version: minimum required firmware version for BMU is V4-10.

1 Phase on Grid	
Inverter Type	B-Box 13.8
GW2500-BP	≥1
Remark: Maximum quantity of B-Box13.8 is 32.	

2.3 Minimum configuration with EM

Inverter Firmware version: minimum required firmware version for ARM is 03.

B-Box firmware version: minimum required firmware version for BMU is V4-10.

1 Phase on Grid	
Inverter Type	B-Box 13.8
GW3048-EM	≥1 ¹
GW3648-EM	≥1 ¹
GW5048-EM	≥1 ¹
1 Phase off Grid	
Inverter Type	B-Box 13.8
GW3048-EM	≥1
GW3648-EM	≥1
GW5048-EM	≥1
Remark: Maximum quantity of B-Box13.8 is 32.	

2.4 Minimum configuration with SBP

Inverter Firmware version: minimum required firmware version for ARM is 03.

B-Box firmware version: minimum required firmware version for BMU is V4-10.

1 Phase on Grid	
Inverter Type	B-Box 13.8
GW3600S-BP	≥1
GW5000S-BP	≥1
Back-up mode	

¹ This configuration is only for self-consumption application

Inverter Type	B-Box 13.8
GW3600S-BP	≥1
GW5000S-BP	≥1
Remark: Maximum quantity of B-Box13.8 is 32.	

3. MINIMUM CONFIGURATION WITH VICTRON INVERTER

3.1 Minimum configuration with Multiplus

Inverter Firmware version: minimum required firmware version for CCGX is V2.01, apply to ESS mode.

B-Box firmware version: minimum required firmware version for BMU is V4-13, apply to ESS mode.

1 Phase on Grid

Inverter Type	B-Box 13.8
48/3000/35	≥1
48/5000/70	≥1

3 Phase on Grid

Inverter Type	B-Box 13.8
48/3000/35	≥1
48/5000/70	≥1

1 Phase off Grid

Inverter Type	B-Box 13.8
48/3000/35	≥1
48/5000/70	≥1

3 Phase off Grid

Inverter Type	B-Box 13.8
48/3000/35	≥2
48/5000/70	≥3
Remark: Maximum quantity of B-Box13.8 is 32.	

3.2 Minimum configuration with Multigrid

Inverter Firmware version: minimum required firmware version for CCGX is V2.01, apply to ESS mode.

B-Box firmware version: minimum required firmware version for BMU is V4-13, apply to ESS mode.

1 Phase on Grid

Inverter Type	B-Box 13.8
48/3000/35	≥1

3 Phase on Grid

Inverter Type	B-Box 13.8
48/3000/35	≥1

1 Phase off Grid

Inverter Type	B-Box 13.8
48/3000/35	≥1

3 Phase off Grid

Inverter Type	B-Box 13.8
48/3000/35	≥2

Remark: Maximum quantity of B-Box13.8 is 32.

3.3 Minimum configuration with Quattro

Inverter Firmware version: minimum required firmware version for CCGX is V2.01, apply to ESS mode.

B-Box firmware version: minimum required firmware version for BMU is V4-13, apply to ESS mode.

1 Phase on Grid

Inverter Type	B-Box 13.8
48/5000/70-100/100	≥1
48/8000/110-100/100	≥1
48/10000/140- 100/100	≥1
48/15000/200- 100/100	≥1

3 Phase on Grid

Inverter Type	B-Box 13.8
48/5000/70-100/100	≥1
48/8000/110-100/100	≥2
48/10000/140- 100/100	≥2
48/15000/200- 100/100	≥3

1 Phase off Grid

Inverter Type	B-Box 13.8
48/5000/70-100/100	≥1
48/8000/110-100/100	≥2
48/10000/140- 100/100	≥2
48/15000/200- 100/100	≥3

3 Phase off Grid

Inverter Type	B-Box 13.8
48/5000/70-100/100	≥3
48/8000/110-100/100	≥5
48/10000/140- 100/100	≥6
48/15000/200- 100/100	≥7

Remark: Maximum quantity of B-Box13.8 is 32.

3.4 Minimum configuration with Easysolar with CCGX

Inverter Firmware version: minimum required firmware version for CCGX is V2.01, apply to ESS mode.

B-Box firmware version: minimum required firmware version for BMU is V4-13, apply to ESS mode.

1 Phase on Grid

Inverter Type	B-Box 13.8
48/3000/35-50 MPPT150/70	≥1

48/5000/70-100 MPPT150/100	≥1
3 Phase on Grid	
Inverter Type	B-Box 13.8
48/3000/35-50 MPPT150/70	≥1
48/5000/70-100 MPPT150/100	≥1
1 Phase off Grid	
Inverter Type	B-Box 13.8
48/3000/35-50 MPPT150/70	≥1
48/5000/70-100 MPPT150/100	≥1
3 Phase off Grid	
Inverter Type	B-Box 13.8
48/3000/35-50 MPPT150/70	≥2
48/5000/70-100 MPPT150/100	≥3
Remark: Maximum quantity of B-Box13.8 is 32.	

4 MINIMUM CONFIGURATION WITH SOLAX

4.1 Minimum configuration with SK-SU

Inverter Firmware version: minimum required firmware version is V2.31.

B-Box firmware version: minimum required firmware version for BMU is V4-10

1 Phase on Grid	
Inverter Type	B-Box 13.8
SK-SU 3000E	≥1
SK-SU 3700E	≥1
SK-SU 5000E	≥1
4.2 Minimum configuration with SK-TL	
1 Phase on Grid	
Inverter Type	B-Box 13.8
SK-TL3000E+SK-BMU2500	≥1
SK-TL3700E+SK-BMU2500	≥1
SK-TL5000E+SK-BMU2500	≥1
SK-TL5000E+SK-BMU5000	≥1
Remark: Maximum quantity of B-Box13.8 is 32.	

5 MINIMUM CONFIGURATION WITH SUNGROW

5.1 MINIMUM CONFIGURATION WITH SH5K

Inverter Firmware version: minimum required firmware version is V13.

Minimum Configuration list of B-Box series products

B-Box firmware version: minimum required firmware version for BMU is V4-10.

1 Phase on Grid

Inverter Type	B-Box 13.8
SH5K	≥1

1 Phase off Grid^{3&1}

Inverter Type	B-Box 13.8
SH5K	≥1

Remark: Maximum quantity of B-Box13.8 is 32.
