



# **B-Box Pro 2.5~10.0 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-Plus 2.5	Cabinet
SI 3.0M	≥1	≥1
SI 4.4M	≥1	≥1
SI 6.0H	≥1	≥1
SI 8.0H	≥1	≥1

### 3 Phase on Grid

Inverter Type	B-Plus 2.5	Cabinet
SI 3.0M	≥3	≥1
SI 4.4M	≥4	≥1
SI 6.0H	≥4	≥1
SI 8.0H	≥4	≥1

### 1 Phase off Grid

Inverter Type	B-Plus 2.5	Cabinet
SI 3.0M	≥3	≥1
SI 4.4M	≥3	≥1
SI 6.0H	≥5	≥2
SI 8.0H	≥5	≥2

### 3 Phase off Grid

Inverter Type	B-Plus 2.5	Cabinet
SI 3.0M	≥8	≥2
SI 4.4M	≥8	≥2
SI 6.0H	≥12	≥3
SI 8.0H	≥12	≥3

Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.

## 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-Plus 2.5	Cabinet
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GW3648D-ES	≥1 <sup>1</sup>	≥1
GW5048D-ES	≥1 <sup>1</sup>	≥1
<b>1 Phase off Grid</b>		
Inverter Type	B-Plus 2.5	Cabinet
GW3648D-ES	≥2	≥1
GW5048D-ES	≥2	≥1
Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.		

## 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.

<b>1 Phase on Grid</b>		
Inverter Type	B-Plus 2.5	Cabinet
GW2500-BP	≥1	≥1
Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.		

## 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.

<b>1 Phase on Grid</b>		
Inverter Type	B-Plus 2.5	Cabinet
GW3048-EM	≥1 <sup>1</sup>	≥1
GW3648-EM	≥1 <sup>1</sup>	≥1
GW5048-EM	≥1 <sup>1</sup>	≥1
<b>1 Phase off Grid</b>		
Inverter Type	B-Plus 2.5	Cabinet
GW3048-EM	≥2	≥1
GW3648-EM	≥2	≥1
GW5048-EM	≥2	≥1
Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.		

## 2.3 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.

<b>1 Phase on Grid</b>		
Inverter Type	B-Plus 2.5	Cabinet
GW3600S-BP	≥2	≥1
GW5000S-BP	≥2	≥1
<b>Back-up mode</b>		

<sup>1</sup> This configuration is only for self-consumption application

Inverter Type	B-Plus 2.5	Cabinet
GW3600S-BP	≥2	≥1
GW5000S-BP	≥2	≥1

Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.

### 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-Plus 2.5	Cabinet
48/3000/35	≥1	≥1
48/5000/70	≥1	≥1

##### 3 Phase on Grid

Inverter Type	B-Plus 2.5	Cabinet
48/3000/35	≥3	≥1
48/5000/70	≥3	≥1

##### 1 Phase off Grid<sup>2</sup>

Inverter Type	B-Plus 2.5	Cabinet
48/3000/35	≥2	≥1
48/5000/70	≥3	≥1

##### 3 Phase off Grid<sup>2</sup>

Inverter Type	B-Plus 2.5	Cabinet
48/3000/35	≥6	≥2
48/5000/70	≥9	≥3

Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.

#### 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-Plus 2.5	Cabinet
48/3000/35	≥1	≥1

##### 3 Phase on Grid

Inverter Type	B-Plus 2.5	Cabinet
48/3000/35	≥3	≥1

<sup>2</sup> When system works in off grid mode, please operate according to Victron's guidance before new firmware is released.

Website: [https://www.victronenergy.com/live/battery\\_compatibility:byd\\_b-box](https://www.victronenergy.com/live/battery_compatibility:byd_b-box)

**1 Phase off Grid<sup>2</sup>**

Inverter Type	B-Plus 2.5	Cabinet
48/3000/35	≥2	≥1

**3 Phase off Grid<sup>2</sup>**

Inverter Type	B-Plus 2.5	Cabinet
48/3000/35	≥6	≥2

Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.

**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-Plus 2.5	Cabinet
48/5000/70-100/100	≥1	≥1
48/8000/110-100/100	≥1	≥1
48/10000/140- 100/100	≥1	≥1
48/15000/200- 100/100	≥1	≥1

**3 Phase on Grid**

Inverter Type	B-Plus 2.5	Cabinet
48/5000/70-100/100	≥3	≥1
48/8000/110-100/100	≥4	≥1
48/10000/140- 100/100	≥5	≥2
48/15000/200- 100/100	≥6	≥2

**1 Phase off Grid<sup>2</sup>**

Inverter Type	B-Plus 2.5	Cabinet
48/5000/70-100/100	≥3	≥1
48/8000/110-100/100	≥5	≥2
48/10000/140- 100/100	≥6	≥2
48/15000/200- 100/100	≥9	≥3

**3 Phase off Grid<sup>2</sup>**

Inverter Type	B-Plus 2.5	Cabinet
48/5000/70-100/100	≥9	≥3
48/8000/110-100/100	≥15	≥4
48/10000/140- 100/100	≥18	≥5
48/15000/200- 100/100	≥27	≥7

Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.

**3.3 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-Plus 2.5	Cabinet
48/3000/35-50 MPPT150/70	≥1	≥1
48/5000/70-100 MPPT150/100	≥1	≥1

**3 Phase on Grid**

Inverter Type	B-Plus 2.5	Cabinet
48/3000/35-50 MPPT150/70	≥3	≥1
48/5000/70-100 MPPT150/100	≥3	≥1

**1 Phase off Grid<sup>2</sup>**

Inverter Type	B-Plus 2.5	Cabinet
48/3000/35-50 MPPT150/70	≥2	≥1
48/5000/70-100 MPPT150/100	≥3	≥1

**3 Phase off Grid<sup>2</sup>**

Inverter Type	B-Plus 2.5	Cabinet
48/3000/35-50 MPPT150/70	≥6	≥2
48/5000/70-100 MPPT150/100	≥9	≥3

Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.

**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-Plus 2.5	Cabinet
SK-SU 3000E	≥2	≥1
SK-SU 3700E	≥2	≥1
SK-SU 5000E	≥2	≥1

**4.1 Minimum configuration with SK-TL****1 Phase on Grid**

Inverter Type	B-Plus 2.5	Cabinet
SK-TL3000E+SK-BMU2500	≥2	≥1
SK-TL3700E+SK-BMU2500	≥2	≥1
SK-TL5000E+SK-BMU2500	≥2	≥1
SK-TL5000E+SK-BMU5000	≥4	≥1

Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.