



B-Box Res 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 Grid¹

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 Grid¹

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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¹ Shall bypass main circuit breaker when the system is off grid application.

GW3648D-ES	≥1 ²	≥1
GW5048D-ES	≥1 ²	≥1
1 Phase off Grid		
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.

1 Phase on Grid		
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.

1 Phase on Grid		
Inverter Type	B-Plus 2.5	Cabinet
GW3048-EM	≥1 ²	≥1
GW3648-EM	≥1 ²	≥1
GW5048-EM	≥1 ²	≥1
1 Phase off Grid		
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.		

2.4 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-Plus 2.5	Cabinet
GW3600S-BP	≥1 ²	≥1
GW5000S-BP	≥1 ²	≥1

Back-up mode

² 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.

**Operate according to Victron's guidance before new firmware is released.

Website:https://www.victronenergy.com/live/battery_compatibility:byd_b-box

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 Grid¹

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

3 Phase off Grid¹

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.

**Operate according to Victron's guidance before new firmware is released.

Website:https://www.victronenergy.com/live/battery_compatibility:byd_b-box

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

Minimum Configuration list of B-Box series products

48/3000/35	≥3	≥1
1 Phase off Grid^{1&2}		
Inverter Type	B-Plus 2.5	Cabinet
48/3000/35	≥2	≥1
3 Phase off Grid^{1&2}		
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.

**Operate according to Victron's guidance before new firmware is released.

Website: https://www.victronenergy.com/live/battery_compatibility:byd_b-box

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	Cabinets
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^{1&2}		
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^{1&2}		
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.

3.4 Minimum configuration with Easysolar with CCGX

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

**Operate according to Victron's guidance before new firmware is released.

Website: https://www.victronenergy.com/live/battery_compatibility:byd_b-box

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^{1&2}

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^{1&2}

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

4.2 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.

5 MINIMUM CONFIGURATION WITH SUNGROW

5.1 MINIMUM CONFIGURATION WITH SH5K

Inverter Firmware version: minimum required firmware version is V13.

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

Identification label on B-Box cabinet package: V2.2

1 Phase on Grid

Inverter Type	B-Plus 2.5	Cabinet
SH5K	≥2	≥1

1 Phase off Grid^{1&2}

Inverter Type	B-Plus 2.5	Cabinet
SH5K	≥2	≥1

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

6 MINIMUM CONFIGURATION WITH SELECTRONICS

6.1 MINIMUM CONFIGURATION WITH SP PRO

Inverter Firmware version: minimum required firmware version is V0.27.

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

Identification label on B-Box cabinet package: V2.2

1 Phase on Grid

Inverter Type	B-Plus 2.5	Cabinet
SPMC481-AU	≥2	≥1
SPMC482-AU	≥2	≥1

1 Phase off Grid^{1&2}

Inverter Type	B-Plus 2.5	Cabinet
SPMC481-AU	≥5	≥2
SPMC482-AU	≥6	≥2

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