BYD Battery-Box Compatible Inverter List

Battery-Box Pro 2.5~10.0

Version 1.1

Contents

Minimum Configuration with Different Brands of Inverters

1 Minimum configuration with SMA Sunny Island inverter

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

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

1 Phase on Grid		
Inverter Type	B-Plus L 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 L 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 L 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 L 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 L 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.

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

1 Phase on Grid		
Inverter Type	B-Plus L 2.5	Cabinet
GW3648D-ES	≥1	≥1
GW5048D-ES	≥1	≥1

1 Phase off Grid

Inverter Type	B-Plus L 2.5	Cabinet
GW3648D-ES	≥2	≥1
GW5048D-ES	≥2	≥1
Remark: Maximum quantity of B-Plus L is 32, Cabinet quantity is 8.		

2.2 Minimum configuration with BP

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

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

1 Phase on Grid

Inverter Type	B-Plus L 2.5	Cabinet
GW2500-BP	≥1	≥1
Remark: Maximum quantity of B-Plus L is 32, Cabinet quantity is 8.		

2.3 Minimum configuration with EM

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

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

1 Phase on Grid

Inverter Type	B-Plus L 2.5	Cabinet
GW3048-EM	≥1	≥1
GW3648-EM	≥1	≥1
GW5048-EM	≥1	≥1

1 Phase off Grid

Inverter Type	B-Plus L 2.5	Cabinet
GW3048-EM	≥2	≥1
GW3648-EM	≥2	≥1
GW5048-EM	≥2	≥1
Remark: Maximum quantity of B-Plus L is 32, Cabinet quantity is 8.		

2.4 Minimum configuration with SBP

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

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

1 Phase on Grid

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

Back-up mode

Inverter Type	B-Plus L 2.5	Cabinet
GW3600S-BP	≥2	≥1
GW5000S-BP	≥2	≥1
Remark: Maximum quantity of B-Plus L 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, which applies to ESS mode.

Battery-Box firmware version: minimum required firmware version for BMU is V4-17, which applies to ESS mode.

1 Phase on Grid		
Inverter Type	B-Plus L 2.5	Cabinet
48/3000/35	≥1	≥1
48/5000/70	≥1	≥1
3 Phase on Grid		
Inverter Type	B-Plus L 2.5	Cabinet
48/3000/35	≥3	≥1
48/5000/70	≥3	≥1
1 Phase off Grid		
Inverter Type	B-Plus L 2.5	Cabinet
48/3000/35	≥2	≥1
48/5000/70	≥3	≥1
3 Phase off Grid		
Inverter Type	B-Plus L 2.5	Cabinet
48/3000/35	≥6	≥2
48/5000/70	≥9	≥3
Remark: Maximum quantity of B-Plus L is 32, Cabinet quantity is 8.		

3.2 Minimum configuration with Multigrid

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

Battery-Box firmware version: minimum required firmware version for BMU is V4-13, which applies to ESS mode.

1 Phase on Grid		
Inverter Type	B-Plus L 2.5	Cabinet
48/3000/35	≥1	≥1
3 Phase on Grid		
Inverter Type	B-Plus L 2.5	Cabinet
48/3000/35	≥3	≥1
1 Phase off Grid		
Inverter Type	B-Plus L 2.5	Cabinet
48/3000/35	≥2	≥1

3 Phase off Grid

Inverter Type	B-Plus L 2.5	Cabinet
48/3000/35	≥6	≥2
Remark: Maximum quantity of B-Plus L is 32, Cabinet quantity is 8.		

3.3 Minimum configuration with Quattro

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

Battery- Box firmware version: minimum required firmware version for BMU is V4-13, which applies to ESS mode.

1 Phase on Grid

Inverter Type	B-Plus L 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 L 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

Inverter Type	B-Plus L 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

Inverter Type	B-Plus L 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 L is 32, Cabinet quantity is 8.		

3.4 Minimum configuration with CCGX of Easysolar

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

Battery-Box firmware version: minimum required firmware version for BMU is V4-13, which applies to ESS mode.

1 Phase on Grid

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

1 Phase off Grid

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

3 Phase off Grid

Inverter Type	B-Plus L 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 L is 32, Cabinet quantity is 8.

4 Minimum configuration with Sungrow inverter

4.1 Minimum configuration with SH5K+

Inverter Firmware version: minimum required firmware version is V13.

Battery-Box firmware version: minimum required firmware version for BMU is V4-10. Identification label on package is V1.2

1 Phase on Grid

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

1 Phase off Grid

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

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

5 Minimum configuration with Selectronic inverter

5.1 Minimum configuration with SP PRO

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

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

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

1 Phase on Grid

Inverter Type	B-Plus L 2.5	Cabinet

SPMC481-AU	≥2	≥1
SPMC482-AU	≥2	≥1

1 Phase off Grid		
Inverter Type	B-Plus L 2.5	Cabinet
SPMC481-AU	≥5	≥2
SPMC482-AU	≥6	≥2
Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.		

5.2 Minimum configuration with SP PRO for 3 phase

Inverter Firmware version: minimum required firmware version is 11.06.

Battery-Box firmware version: minimum required firmware version for BMU is V4-22.

3 Phase on Grid		
Inverter Type	B-Plus L 2.5	Cabinet
SPMC481	≥2	≥1
SPMC482	≥2	≥1

3 Phase off Grid		
Inverter Type	B-Plus L 2.5	Cabinet
SPMC481	≥12	≥3
SPMC482	≥17	≥5
Remark: Maximum quantity of B-Plus is 32, Cabinet quantity is 8.		

6 Minimum configuration with Imeon inverter

Inverter Firmware version: minimum required firmware version is 1.7.7.8.

Battery-Box firmware version: minimum required firmware version for BMU is V4-22. Identification label on package is V2.4

On Grid		
Inverter Type	B-Plus L 2.5	Cabinet
IMEON 3.6	≥ 1	≥ 1
IMEON 9.12	≥ 3	≥ 1

Off Grid		
Inverter Type	B-Plus L 2.5	Cabinet
IMEON 3.6	≥2	≥ 1
IMEON 9.12	≥4	≥ 1
Remark: Maximum quantity of B-Plus L is 32, Cabinet quantity is 8.		

7 Minimum configuration with Solis inverter

Inverter Firmware version: minimum required firmware version is 13000F.

Battery-Box firmware version: minimum required firmware version for BMU is V4-22.

1 Phase on grid		
Inverter Type	B-Plus L 2.5	Cabinet

Inverter Type	B-Plus L 2.5	Cabinet
RHI-3K-48ES	≥1	≥1
RHI-3.6K-48ES	≥1	≥1
RHI-4.6K-48ES	≥1	≥1
RHI-5K-48ES	≥1	≥1

1 Phase off grid

Inverter Type	B-Plus L 2.5	Cabinet
RHI-3K-48ES	≥2	≥1
RHI-3.6K-48ES	≥2	≥1
RHI-4.6K-48ES	≥2	≥1
RHI-5K-48ES	≥2	≥1

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

8 Minimum configuration with Studer inverter

Inverter Firmware version: minimum required firmware version for Studer is R656.

Battery-Box firmware version: minimum required firmware version for BMU is V4-23.

1 Phase on Grid

Inverter Type	B-Plus L 2.5	Cabinet
XTS1400-48	≥1	≥1
XTM2600-48	≥1	≥1
XTM4000-48	≥1	≥1
XTH6000-48	≥1	≥1
XTH8000-48	≥1	≥1

3 Phase on Grid

Inverter Type	B-Plus L 2.5	Cabinet
XTS1400-48	≥2	≥1
XTM2600-48	≥3	≥1
XTM4000-48	≥4	≥1
XTH6000-48	≥4	≥1
XTH8000-48	≥4	≥1

1 Phase off Grid

Inverter Type	B-Plus L 2.5	Cabinet
XTS1400-48	≥1	≥1
XTM2600-48	≥2	≥1
XTM4000-48	≥3	≥1
XTH6000-48	≥4	≥1
XTH8000-48	≥6	≥2

3 Phase off Grid

Inverter Type	B-Plus L 2.5	Cabinet
XTS1400-48	≥3	≥1
XTM2600-48	≥5	≥2

XTM4000-48	≥8	≥2
XTH6000-48	≥12	≥3
XTH8000-48	≥16	≥4

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

* Battery-Box Pro 2.5~10.0 do not support AC-coupled systems managed by Studer inverters in off grid application.

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