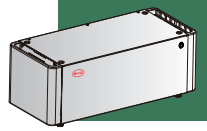
BYD Battery-Box LV5.0 TECHNICAL INFORMATION

minimum configuration list



EN-TECHNICAL INFORMATION Aug-2024 Version01

Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase		
		On Grid	On Grid with Backup	Off Grid Inrush Use	On Grid	On Grid with Backup	Off Grid Inrush Use
Solis	S6-EH1P3K-L-EU	≥1	≥1	≥1	-	-	-
	S6-EH1P3.6K-L-EU	≥1	≥1	≥1	-	-	-
	S6-EH1P4.6K-L-EU	≥1	≥2	≥2	-	-	-
	S6-EH1P5K-L-EU	≥1	≥2	≥2	-	-	-
	S6-EH1P6K-L-EU	≥1	≥2	≥2	-	-	-
	S6-EH1P3K-L-PRO	≥1	≥1	≥1	-	-	-
	S6-EH1P3.6K-L-PRO	≥1	≥1	≥1	-	-	-
	S6-EH1P5K-L-PRO	≥1	≥2	≥2	-	-	-
	S6-EH1P6K-L-PRO	≥1	≥2	≥2	-	-	-
	S6-EH1P8K-L-PRO	≥1	≥3	≥3	-	-	-
	S6-EH1P3K-L-PLUS	≥1	≥1	≥1	-	-	-
	S6-EH1P3.6K-L-PLUS	≥1	≥1	≥1	-	-	-
	S6-EH1P5K-L-PLUS	≥1	≥2	≥2	-	-	-
	S6-EH1P6K-L-PLUS	≥1	≥2	≥2	-	-	-
	S6-EH1P8K-L-PLUS	≥1	≥3	≥3	-	-	-
	S6-EH1P12K-L	≥1	≥4	≥4	-	-	-
	S6-EH1P14K-L	≥1	≥4	≥4	-	-	-
	S6-EH1P16K-L	≥1	≥5	≥5	-	-	-
	S6-EH3P8K-L	-	-	-	≥1	≥3	≥3
	S6-EH3P10K-L	-	-	-	≥1	≥3	≥3
	S6-EH3P12K-L	-	-	-	≥1	≥4	≥4
	S6-EH3P15K-L	-	-	-	≥1	≥5	≥5
	S5-EA1P3K-L	≥1	≥1	≥1	-	-	-
	S6-EA1P3.6K-L	≥1	≥1	≥1	-	-	-
	S6-EA1P4.6K-L	≥1	≥2	≥2	-	-	-
	S6-EA1P5K-L	≥1	≥2	≥2	-	-	-
	S6-EA1P6K-L	≥1	≥2	≥2	-	-	-
	S5-EO1P4K-48	-	-	≥2	-	-	-
	S5-EO1P4K-48-P	-	-	≥2	-	-	-

Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase		
		On Grid	On Grid with Backup	Off Grid Inrush Use	On Grid	On Grid with Backup	Off Grid Inrush Use
Solis	S5-EO1P5K-48	-	-	≥2	-	-	-
	S5-EO1P5K-48-P	-	-	≥2	-	-	-
	S6-EO1P4K-48	-	-	≥2	-	-	-
	S6-EO1P5K-48		-	≥2	-	-	-
	Battery firmware: BMS ≥V1.88; Inverter firmware ≥V06-10						
Deye	SUN-5KSG04LP3-EU	-	-	-	≥1	≥2	≥2
	SUN-6KSG04LP3-EU	-	-	-	≥1	≥2	≥2
	SUN-8KSG04LP3-EU	-	-	-	≥1	≥3	≥3
	SUN-10KSG04LP3-EU	-	-	-	≥1	≥4	≥4
	SUN-12KSG04LP3-EU	-	-	-	≥1	≥4	≥4
	SUN-7.6K-SG01LP1-EU	≥1	≥3	≥3	-	-	-
	SUN-8K-SG01LP1-EU	≥1	≥3	≥3	-	-	-
	SUN-12K-SG01LP1-EU	≥1	≥4	≥4	-	-	-
	SUN-14K-SG01LP1-EU	≥1	≥4	≥4	-	-	-
	SUN-16K-SG01LP1-EU	≥1	≥5	≥5	-	-	-
	SUN-3.6K-SG03LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-5K-SG03LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-6K-SG03LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-3K-SG04LP1-EU	≥1	≥1	≥1	-	-	-
	SUN-3.6K-SG04LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-5K-SG04LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-6K-SG04LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-3.6K-SG05LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-5K-SG05LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-6K-SG05LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-7K-SG05LP1-EU	≥1	≥3	≥3	-	-	-
	SUN-7.6K-SG05LP1-EU	≥1	≥3	≥3	-	-	-
	SUN-8K-SG05LP1-EU	≥1	≥3	≥3	-	-	-
	Battery firmware: BMS ≥V1.88; Inverter firmware ≥1001-C040. Note: Please open the function: "BMS Stop" .						

Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase		
		On Grid	On Grid with Backup	Off Grid Inrush Use	On Grid	On Grid with Backup	Off Grid Inrush Use
Megarevo	R3KL1-G2	≥1	≥1	≥1	-	-	-
	R3K6L1-G2	≥1	≥2	≥2	-	-	-
	R4KL1-G2	≥1	≥2	≥2	-	-	-
	R4K6L1-G2	≥1	≥2	≥2	-	-	-
	R5KL1-G2	≥1	≥2	≥2	-	-	-
	R6KL1-G2	≥1	≥2	≥2	-	-	-
	R8KL1-G2	≥1	≥3	≥3	-	-	-
	R3KL1D-G2	≥1	≥1	≥1	-	-	-
	R3K6L1D-G2	≥1	≥2	≥2	-	-	-
	R4KL1D-G2	≥1	≥2	≥2	-	-	-
	R4K6L1D-G2	≥1	≥2	≥2	-	-	-
	R5KL1D-G2	≥1	≥2	≥2	-	-	-
	R6KL1D-G2	≥1	≥2	≥2	-	-	-
	R8KL1D-G2	≥1	≥3	≥3	-	-	-
	Battery firmware: BMS ≥V1.88; Inverter firmware ≥ARM V2.04.15，DSP V2.05.11						
Victron	MultiPlus 48/3000/35	≥1	≥1	≥1	≥1	≥3	≥3
	MultiPlus 48/5000/70	≥1	≥2	≥2	≥1	≥5	≥5
	MultiPlus-II GX 48/3000/35-32	≥1	≥1	≥1	≥1	≥3	≥3
	MultiPlus-II GX 48/5000/70-50	≥1	≥2	≥2	≥1	≥5	≥5
	MultiPlus-II 230V 48/3000/35-32	≥1	≥1	≥1	≥1	≥3	≥3
	MultiPlus-II 230V 48/5000/70-50	≥1	≥2	≥2	≥1	≥5	≥5
	MultiPlus-II 230V 48/8000/110-100	≥1	≥3	≥3	≥1	≥7	≥7
	MultiPlus-II 230V 48/10000/140-100	≥1	≥3	≥3	≥1	≥9	≥9
	MultiPlus-II 230V48/15000/200-100	≥1	≥5	≥5	≥1	≥13	≥13
	Multi RS Solar 48/6000 Dual Tracker	≥1	≥2	≥2	≥1	≥5	≥5
	Quattro 48/5000/70-100/100	≥1	≥2	≥2	≥1	≥5	≥5
	Quattro 48/8000/110-100/100	≥1	≥3	≥3	≥1	≥7	≥7
	Quattro 48/10000/140-100/100	≥1	≥3	≥3	≥1	≥9	≥9
	Quattro 48/15000/200-100/100	≥1	≥5	≥5	≥1	≥13	≥13
	Quattro-II 48/5000/70-50	≥1	≥2	≥2	≥1	≥5	≥5
	Battery firmware: BMS ≥V1.88; Inverter firmware ≥V3.20						

Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase		
		On Grid	On Grid with Backup	Off Grid Inrush Use	On Grid	On Grid with Backup	Off Grid Inrush Use
SMA	SI 4.4M	≥1	≥2	≥2	-	-	-
	SI 6.0H	≥2	≥3	≥3	-	-	-
	SI 8.0H	≥2	≥4	≥4	-	-	-
	Battery firmware: BMS ≥V1.88; Inverter firmware ≥3.30.12 R						

Note

1. Max.32 can be connected in parallel.
2. Inrush Power: Each Inverter has their Inrush power for off grid applications, please make sure to consult with inverter brands for the right value of correspondences.
3. In back-up and off-grid application scenarios, the number of battery packs we recommend is the minimum number to allow the inverter to operate at full load power.