



BYD Battery-Box LV5.0+ TECHNICAL INFORMATION

minimum configuration list

EN-TECHNICAL INFORMATION Jun-2025 Version1.0

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
	Power-Box SL3K	≥1	≥1	≥1	-	-	-
	Power-Box SL3.68K	≥1	≥1	≥1	-	-	-
	Power-Box SL4.6K	≥1	≥1	≥1	-	-	-
	Power-Box SL5K	≥1	≥1	≥1	-	-	-
	Power-Box SL6K	≥1	≥1	≥1	-	-	-
	Battery firmware: BMS ≥V1.2; Inverter firmware: DSP≥439, ARM≥111						
	S6-EH1P3K-L-EU	≥1	≥1	≥1	-	-	-
	S6-EH1P3.6K-L-EU	≥1	≥1	≥1	-	-	-
	S6-EH1P4.6K-L-EU	≥1	≥1	≥1	-	-	-
	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	≥2	≥2	-	-	-
	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	≥2	≥2	-	-	-
	S6-EH1P12K-L	≥1	≥3	≥3	-	-	-
	S6-EH1P14K-L	≥1	≥4	≥4	-	-	-
	S6-EH1P16K-L	≥1	≥4	≥4	-	-	-
	S6-EH3P8K-L	-	-	-	≥1	≥2	≥2
	S6-EH3P10K-L	-	-	-	≥1	≥3	≥3
	S6-EH3P12K-L	-	-	-	≥1	≥3	≥3
	S6-EH3P15K-L	-	-	-	≥1	≥4	≥4
	S5-EA1P3K-L	≥1	≥1	≥1	-	-	-

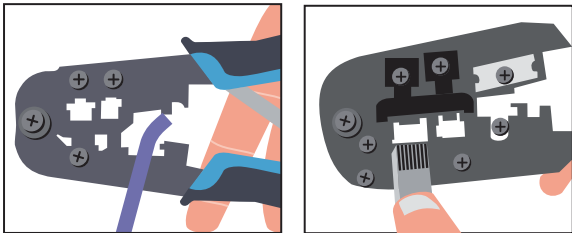
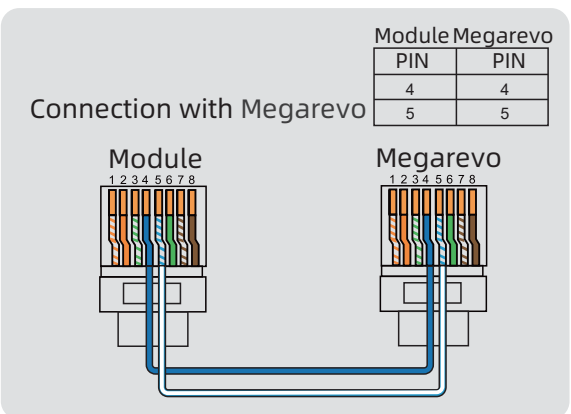
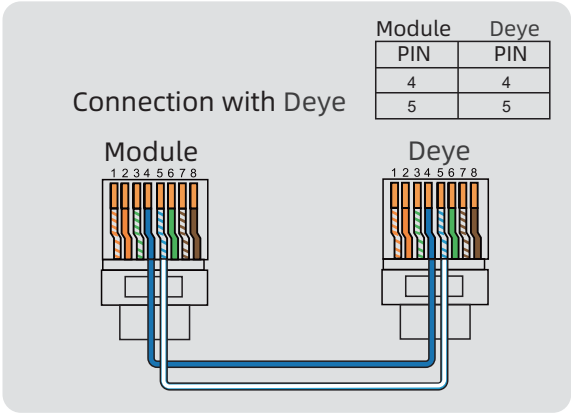
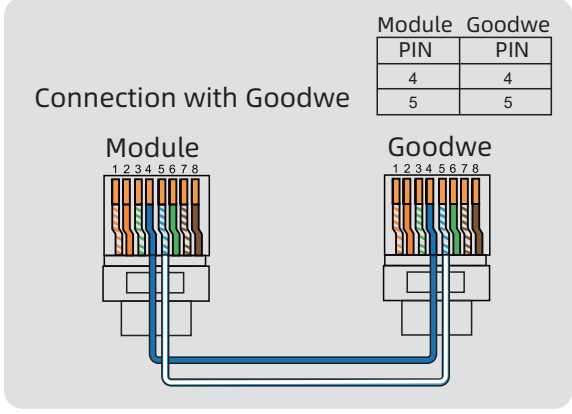
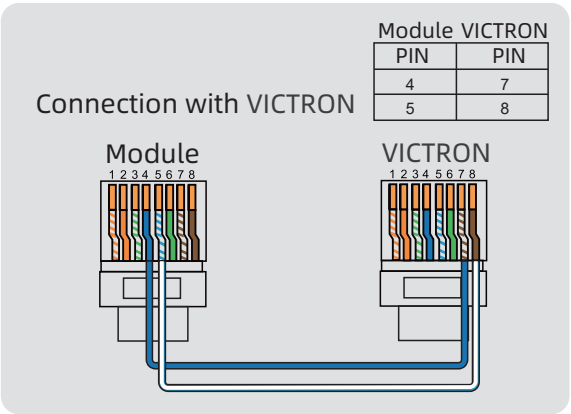
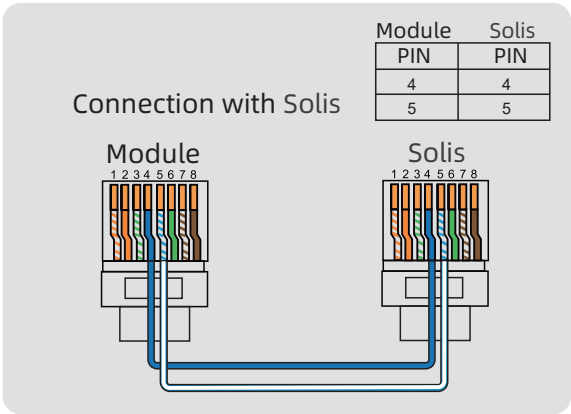
Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase		
		On Grid	On Grid with Backup	Off Grid Inrush Use	On Grid	On Grid with Backup	Off Grid Inrush Use
	S6-EA1P3.6K-L	≥1	≥1	≥1	-	-	-
	S6-EA1P4.6K-L	≥1	≥1	≥1	-	-	-
	S6-EA1P5K-L	≥1	≥2	≥2	-	-	-
	S6-EA1P6K-L	≥1	≥2	≥2	-	-	-
	S5-EO1P4K-48	-	-	≥1	-	-	-
	S5-EO1P4K-48-P	-	-	≥1	-	-	-
	S5-EO1P5K-48	-	-	≥1	-	-	-
	S5-EO1P5K-48-P	-	-	≥1	-	-	-
	S6-EO1P4K-48	-	-	≥1	-	-	-
	S6-EO1P5K-48	-	-	≥1	-	-	-
	Battery firmware: BMS ≥V1.2						
	SUN-5KSG04LP3-EU	-	-	-	≥1	≥2	≥2
	SUN-6KSG04LP3-EU	-	-	-	≥1	≥2	≥2
	SUN-8KSG04LP3-EU	-	-	-	≥1	≥2	≥2
	SUN-10KSG04LP3-EU	-	-	-	≥1	≥3	≥3
	SUN-12KSG04LP3-EU	-	-	-	≥1	≥3	≥3
	SUN-7.6K-SG01LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-8K-SG01LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-12K-SG01LP1-EU	≥1	≥3	≥3	-	-	-
	SUN-14K-SG01LP1-EU	≥1	≥3	≥3	-	-	-
	SUN-16K-SG01LP1-EU	≥1	≥4	≥4	-	-	-
	SUN-3.6K-SG03LP1-EU	≥1	≥1	≥1	-	-	-
	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	≥1	≥1	-	-	-
	SUN-5K-SG04LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-6K-SG04LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-3.6K-SG05LP1-EU	≥1	≥1	≥1	-	-	-
	SUN-5K-SG05LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-6K-SG05LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-7K-SG05LP1-EU	≥1	≥2	≥2	-	-	-
	SUN-7.6K-SG05LP1-EU	≥1	≥2	≥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
	SUN-8K-SG05LP1-EU	≥1	≥2	≥2	-	-	-
	Battery firmware: BMS ≥V1.2						
	R3KL1-G2	≥1	≥1	≥1	-	-	-
	R3K6L1-G2	≥1	≥1	≥1	-	-	-
	R4KL1-G2	≥1	≥1	≥1	-	-	-
	R4K6L1-G2	≥1	≥1	≥1	-	-	-
	R5KL1-G2	≥1	≥1	≥1	-	-	-
	R6KL1-G2	≥1	≥2	≥2	-	-	-
	R8KL1-G2	≥1	≥2	≥2	-	-	-
	R3KL1D-G2	≥1	≥1	≥1	-	-	-
	R3K6L1D-G2	≥1	≥1	≥1	-	-	-
	R4KL1D-G2	≥1	≥1	≥1	-	-	-
	R4K6L1D-G2	≥1	≥1	≥1	-	-	-
	R5KL1D-G2	≥1	≥1	≥1	-	-	-
	R6KL1D-G2	≥1	≥2	≥2	-	-	-
	R8KL1D-G2	≥1	≥2	≥2	-	-	-
	R3KL1DA-G2A	≥1	≥1	≥1	-	-	-
	R3K6L1DA-G2A	≥1	≥1	≥1	-	-	-
	R4KL1DA-G2A	≥1	≥1	≥1	-	-	-
	R4K6L1DA-G2A	≥1	≥1	≥1	-	-	-
	R5KL1DA-G2A	≥1	≥1	≥1	-	-	-
	R6KL1DA-G2A	≥1	≥2	≥2	-	-	-
	R3KL1DA-G2S	≥1	≥1	≥1	-	-	-
	R3K6L1DA-G2S	≥1	≥1	≥1	-	-	-
	R4KL1DA-G2S	≥1	≥1	≥1	-	-	-
	R4K6L1DA-G2S	≥1	≥1	≥1	-	-	-
	R5KL1DA-G2S	≥1	≥1	≥1	-	-	-
	R6KL1DA-G2S	≥1	≥2	≥2	-	-	-
	R8KL1DA-G2S	≥1	≥2	≥2	-	-	-
	R10KL1DA-G2S	≥1	≥3	≥3	-	-	-
Battery firmware: BMS ≥V1.2							

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
	MultiPlus 48/3000/35	≥1	≥1	≥1	≥1	≥2	≥2
	MultiPlus 48/5000/70	≥1	≥1	≥1	≥1	≥3	≥3
	MultiPlus-II GX 48/3000/35-32	≥1	≥1	≥1	≥1	≥2	≥2
	MultiPlus-II GX 48/5000/70-50	≥1	≥1	≥1	≥1	≥3	≥3
	MultiPlus-II 230V 48/3000/35-32	≥1	≥1	≥1	≥1	≥2	≥2
	MultiPlus-II 230V 48/5000/70-50	≥1	≥1	≥1	≥1	≥3	≥3
	MultiPlus-II 230V 48/8000/110-100	≥1	≥2	≥2	≥1	≥5	≥5
	MultiPlus-II 230V 48/10000/140-100	≥1	≥2	≥2	≥1	≥6	≥6
	MultiPlus-II 230V48/15000/200-100	≥1	≥3	≥3	≥1	≥10	≥10
	Multi RS Solar 48/6000 Dual Tracker	≥1	≥2	≥2	-	-	-
	Quattro 48/5000/70-100/100	≥1	≥1	≥1	≥1	≥3	≥3
	Quattro 48/8000/110-100/100	≥1	≥2	≥2	≥1	≥5	≥5
	Quattro 48/10000/140-100/100	≥1	≥2	≥2	≥1	≥6	≥6
	Quattro 48/15000/200-100/100	≥1	≥3	≥3	≥1	≥10	≥10
	Quattro-II 48/5000/70-50	≥1	≥2	≥2	≥1	≥3	≥3
	Battery firmware: BMS ≥1.2						
	Axpert MAX 8000	-	-	≥2	-	-	-
	Axpert MAX E-11K	-					
	Axpert MAX E 11K TWIN	-	-	≥3	-	-	-
	MAX II 8K Duplex	-					
	MAX II 11K Duplex	-	-	≥3	-	-	-
	VM II Elite 6KW	-					
	VM III 6000 TWIN	-	-	≥2	-	-	-
	VM IV 6K TWIN	-					
	VM IV 5.6K	-	-	≥2	-	-	-
	AXPERT KING II 6K	-					
	AXPERT MKS III 6K TWIN	-	-	≥2	-	-	-
	AXPERT ULTRA 8K	-	-	≥2	-	-	-
	AXPERT ULTRA 11K	-	-	≥3	-	-	-
	InfiniSolar WP TWIN HMI 12KW	-	-	-	≥1	≥3	≥3
	InfiniSolar WP TWIN HMI 15KW	-	-	-	≥1	≥4	≥4
	Infinisolar WP 10KW	-	-	-	≥1	≥3	≥3
	Infinisolar WP 12KW	-	-	-	≥1	≥3	≥3

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
	Infinisolar WP 15KW	-	-	-	≥1	≥4	≥4
	InfiniSolar WP TWIN 12KW	-	-	-	≥1	≥3	≥3
	InfiniSolar WP TWIN 15KW	-	-	-	≥1	≥4	≥4
	InfiniSolar WP Elite 10KW	-	-	-	≥1	≥3	≥3
	InfiniSolar WP Elite 12KW	-	-	-	≥1	≥3	≥3
	Battery firmware: BMS ≥V1.2;						
	GW3000-ES-20	≥1	≥1	≥1	-	-	-
	GW3600-ES-20	≥1	≥1	≥1	-	-	-
	GW5000-ES-20	≥1	≥1	≥1	-	-	-
	GW6000-ES-20	≥1	≥2	≥2	-	-	-
	GW3600M-ES-20	≥1	≥1	≥1	-	-	-
	GW5000M-ES-20	≥1	≥1	≥1	-	-	-
	GW6000M-ES-20	≥1	≥1	≥1	-	-	-
	GW6000-SBP-20	≥1	≥2	≥2	-	-	-
	GW5000-SBP-20	≥1	≥1	≥1	-	-	-
	GW3600-SBP-20	≥1	≥1	≥1	-	-	-
	GW6000-ES-BR20	≥1	≥2	≥2	-	-	-
	GW3500L-ES-BR20	≥1	≥1	≥1	-	-	-
	GW3600-ES-BR20	≥1	≥1	≥1	-	-	-
	GW8000-ES-C10	≥1	≥2	≥2	-	-	-
	GW10K-ES-C10	≥1	≥3	≥3	-	-	-
	GW12K-ES-C10	≥1	≥3	≥3	-	-	-
	Battery firmware: BMS ≥V1.2						
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.					

Appendix



	Module	Solis	Deye	VICTRON	Megarevo	Voltronic	BYD	Goodwe
CAN_H	4	4	4	7	4	6	4	4
CAN_L	5	5	5	8	5	7	5	5

