



BYD Battery-Box LV5.0+ TECHNICAL INFORMATION

minimum configuration list

EN-TECHNICAL INFORMATION Sept.-2025 Version1.3

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
	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	-	-	-
	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-E01P4K-48	-	-	≥1	-	-	-
	S5-E01P4K-48-P	-	-	≥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
	S5-EO1P5K-48	-	-	≥1	-	-	-
	S5-EO1P5K-48-P	-	-	≥1	-	-	-
	S6-EO1P4K-48	-	-	≥1	-	-	-
	S6-EO1P5K-48	-	-	≥1	-	-	-
	Battery firmware: BMS ≥V1.2; Inverter firmware: ≥V06-10						
	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	-	-	-
	SUN-8K-SG05LP1-EU	≥1	≥2	≥2	-	-	-
	Battery firmware: BMS ≥V1.2; Inverter firmware: ≥C050,1172						

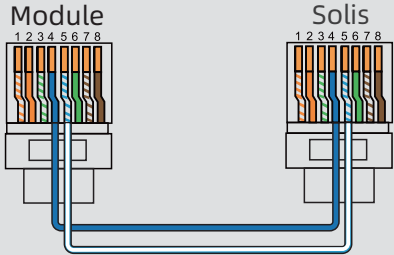
Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase		
		On Grid	On Grid with Backup	Off Grid Inrush Use	On Grid	On Grid with Backup	Off Grid Inrush Use
	MultiPlus 48/3000/35	≥1	≥1	≥1	≥1	≥2	≥2
	MultiPlus 48/5000/70	≥1	≥1	≥1	≥1	≥3	≥3
	MultiPlus-II 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; Inverter firmware ≥V3.20						
	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
	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; Inverter firmware: Remote V2537, HMI V111						
	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	-	-	-

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
GOODWE	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; Inverter firmware: 3~6K ARM≥09; 8~12K ARM≥08							
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

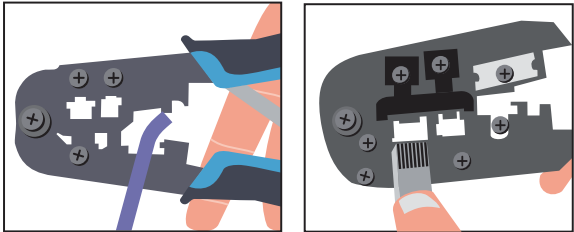
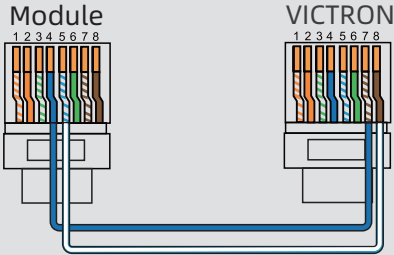
Connection with Solis

Module	Solis
PIN	PIN
4	4
5	5



Connection with VICTRON

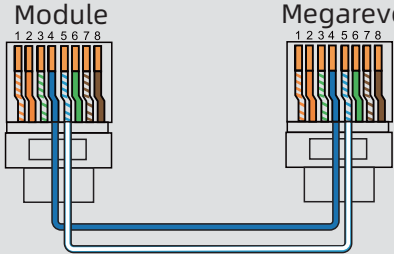
Module	VICTRON
PIN	PIN
4	7
5	8



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

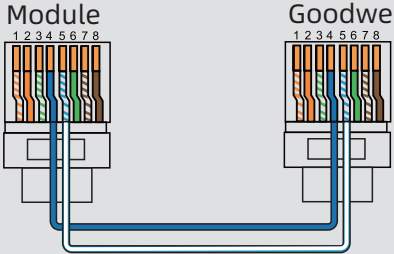
Connection with Megarevo

Module	Megarevo
PIN	PIN
4	4
5	5



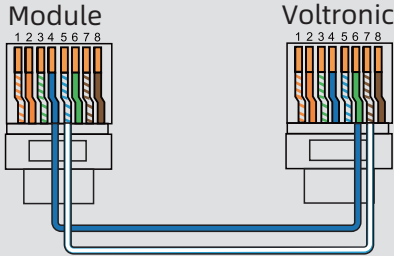
Connection with Goodwe

Module	Goodwe
PIN	PIN
4	4
5	5



Connection with Voltronic

Module	Voltronic
PIN	PIN
4	6
5	7



Connection with Deye

Module	Deye
PIN	PIN
4	4
5	5

