



BYD Battery-Box LV5.0 TECHNICAL INFORMATION

minimum configuration list



EN-TECHNICAL INFORMATION Dec-2024 Version1.8

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	≥2	≥2	-	-	-
	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	≥4	≥4
	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	-	-	-

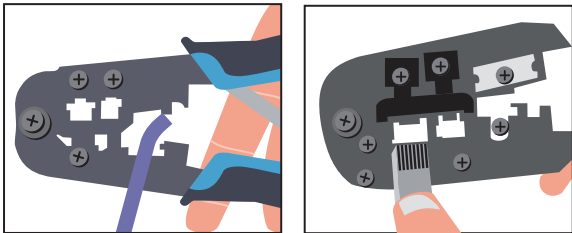
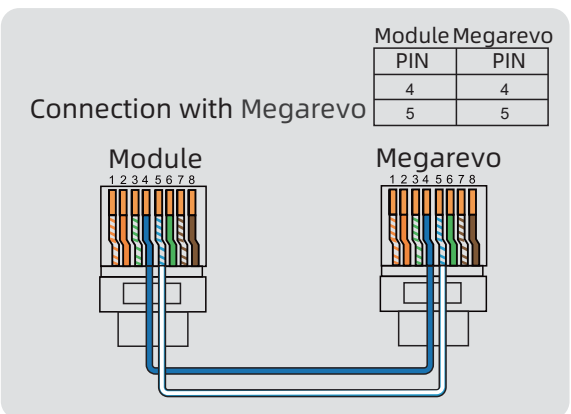
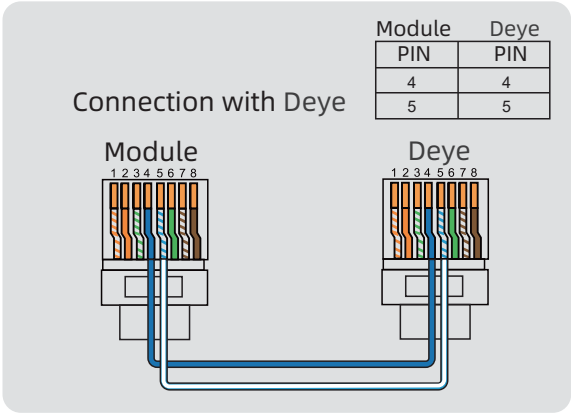
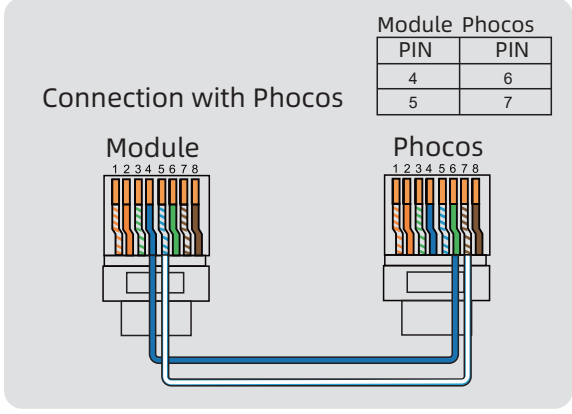
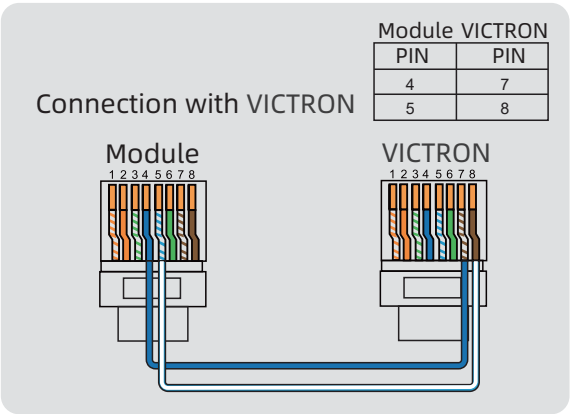
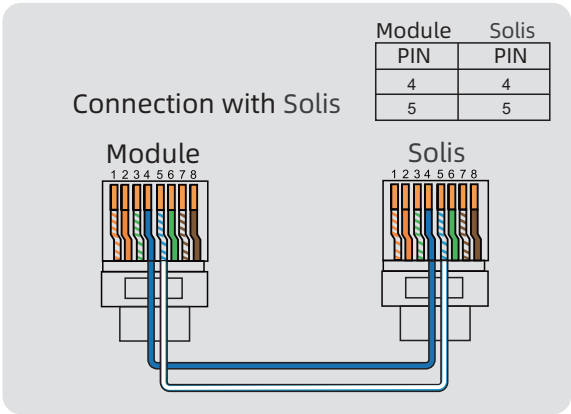
Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase		
		On Grid	On Grid with Backup	Off Grid Inrush Use	On Grid	On Grid with Backup	Off Grid Inrush Use
	S5-EO1P5K-48	-	-	≥2	-	-	-
	S5-EO1P5K-48-P	-	-	≥2	-	-	-
	S6-EO1P4K-48	-	-	≥2	-	-	-
	S6-EO1P5K-48	-	-	≥2	-	-	-
	Battery firmware: BMS ≥V1.88; Inverter firmware ≥V06-10						
	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
	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						
	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
	SI 4.4M	≥1	≥2	≥2	≥1	≥5	≥5
	SI 6.0H	≥1	≥3	≥3	≥1	≥6	≥6
	SI 8.0H	≥1	≥4	≥4	≥1	≥8	≥8
	Battery firmware: BMS ≥V1.88; Inverter firmware ≥3.30.12 R						
	InfiniSolar WP TWIN HMI 12KW	-	-	-	≥1	≥4	≥4
	InfiniSolar WP TWIN HMI 15KW	-	-	-	≥1	≥5	≥5
	Infinisolar WP 10KW	-	-	-	≥1	≥4	≥4
	Infinisolar WP 12KW	-	-	-	≥1	≥4	≥4
	Infinisolar WP 15KW	-	-	-	≥1	≥5	≥5
	InfiniSolar WP TWIN 10KW	-	-	-	≥1	≥4	≥4
	InfiniSolar WP TWIN 12KW	-	-	-	≥1	≥4	≥4
	InfiniSolar WP TWIN 15KW	-	-	-	≥1	≥5	≥5
	InfiniSolar WP Elite 10KW	-	-	-	≥1	≥4	≥4
	InfiniSolar WP Elite 12KW	-	-	-	≥1	≥4	≥4
	Battery firmware: BMS ≥V1.88; Inverter firmware :InfiniSolar WP TWIN HMI 12kw/15kw>Master V3012; InfiniSolar WP 10KW/12KW/15KW>Master V223; InfiniSolar WP TWIN 10KW/12KW/15KW>Master V1012; InfiniSolar WP Elite 10KW/12KW>DSP 241209123000						

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	GW3000-ES-20	≥1	≥1	≥1	-	-	-
	GW3600-ES-20	≥1	≥2	≥2	-	-	-
	GW5000-ES-20	≥1	≥2	≥2	-	-	-
	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	≥2	≥2	-	-	-
	GW3600-SBP-20	≥1	≥2	≥2	-	-	-
	GW6000-ES-BR20	≥1	≥2	≥2	-	-	-
	GW3500L-ES-BR20	≥1	≥2	≥2	-	-	-
	GW3600-ES-BR20	≥1	≥2	≥2	-	-	-
	GW8000-ES-C10	≥1	≥3	≥3	-	-	-
	GW10K-ES-C10	≥1	≥4	≥4	-	-	-
	GW12K-ES-C10	≥1	≥4	≥4	-	-	-
Battery firmware: BMS ≥V1.88; Inverter firmware :3~6K ARM≥09 version; 8~12K ARM≥08 version							
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	SMA	Phocos
CAN_H	4	4	4	7	4	6	4	6
CAN_L	5	5	5	8	5	7	5	7

