





LV.5.0 Is Available





LV5.0





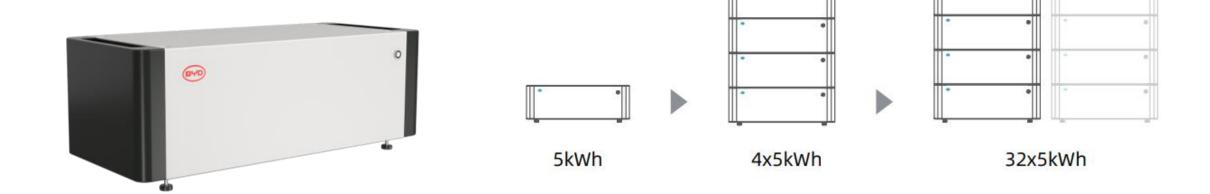


LV5.0

Compact

Affordable

Scalable











PERFORMANCE	LV5.0
Usable Energy [1]	5 kWh
Max.Charge and Discharge Current [2][3]	70A
Peak Charge and Discharge Current [3]	200 A,10s
Dimension(HW/D)	195 x 595 x 255 mm
Weight	42 kg
Nominal Voltage	51.2 V
Operating Voltage	40 - 57.6 V
Charge Cut-Off Voltage	57.6 V
Discharge Cut-Off Voltage	40 V
Scalability	Max. 32 in Parallel (160 kWh)
Installation Mode	Floor installation
Communication	CAN / RS485 / Bluetooth / Wi-Fi
Round-trip Efficiency	≥ 95%
Applications	On Grid / On Grid + Backup / Off Grid
Operating Temperature	Charge 0~50°C & Discharge -20-50°C
Protection Class	IP20
Storage Humidity	5%~95%
Altitude	< 4000 m
Certification	CE / IEC62619 / UN38.3 / RED
Compatible Inverter	victron energy Deye Solis MA Vetredictore phocos



LV5.0 Non-Scope of Delivery





DC Cable (16mm²)



Anchor Bolt



Cat5 Shield (Metal Shielded RJ45 of Cat5 or higher)



PE withTerminal (terminal,5mm; cable≥10mm²)



OT Terminal

 $(16 \text{mm}^2 - \text{M6})$

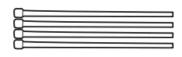




Heat Shrink Tubing (R6)



Busbar Box

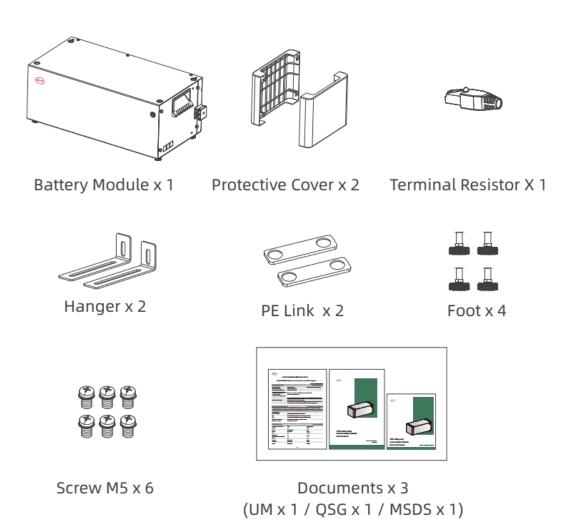


Cable Tie (4*250mm)



LV5.0 Scope of Delivery







LV5.0 Tools Needed

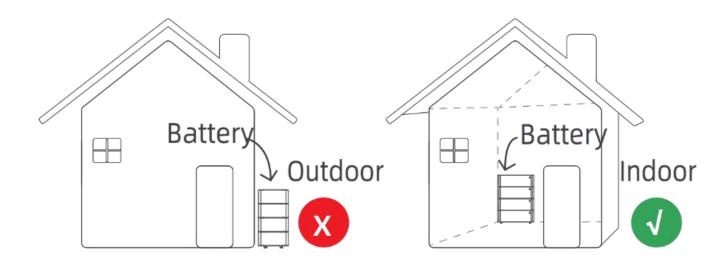






Installation Environment

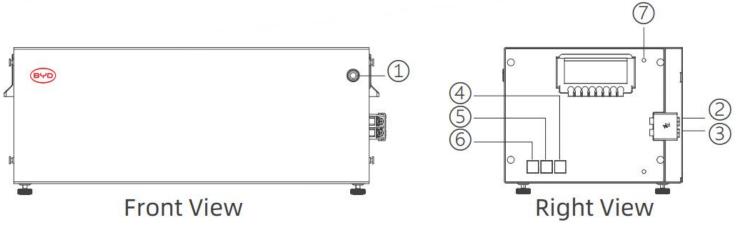






Non-Scope of Delivery





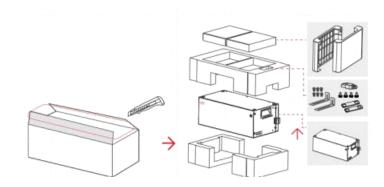
No.	Description	Explanation
1	ON/OFF	Power on/power off.
2	P-	Connect to negative terminal of external device.
3	P+	Connect to positive terminal of external device.
4	COM-OUT	Port for data cable out.
(5)	COM-IN	Port for data cable in.
6	INV	Port for data cable in, Connect to inverter.
7	Grounding	Grounding connection.



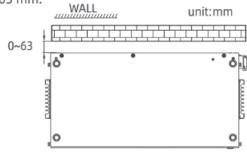
LV5.0: Single Module



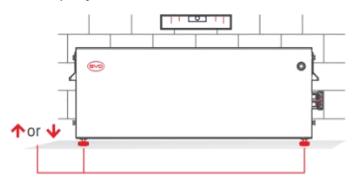
1. Open the box, take out battery module and accessories.

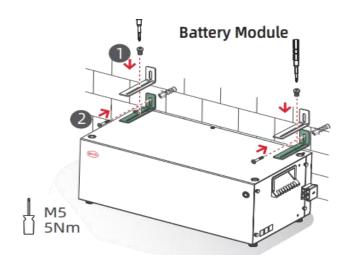


4. Put the battery module along the wall, and keep a distance of $0\sim63$ mm.



2.Install the feet to the battery module. When stacking 2 or more modules, only the bottom one installs the foot.



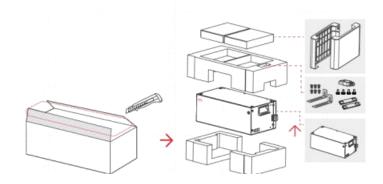




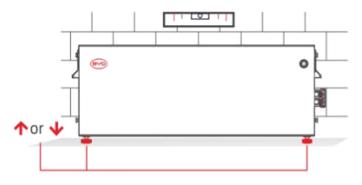
LV5.0: Multiple Module

Battery
Box

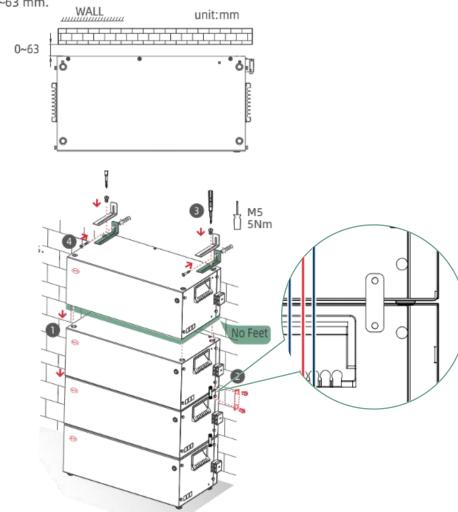
1. Open the box, take out battery module and accessories.



2.Install the feet to the battery module. When stacking 2 or more modules, only the bottom one installs the foot.



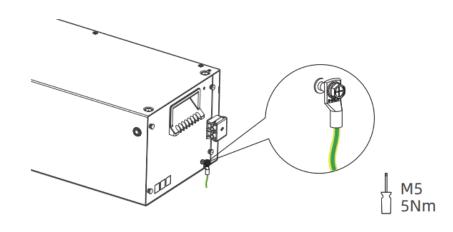
4.Put the battery module along the wall, and keep a distance of 0~63 mm.











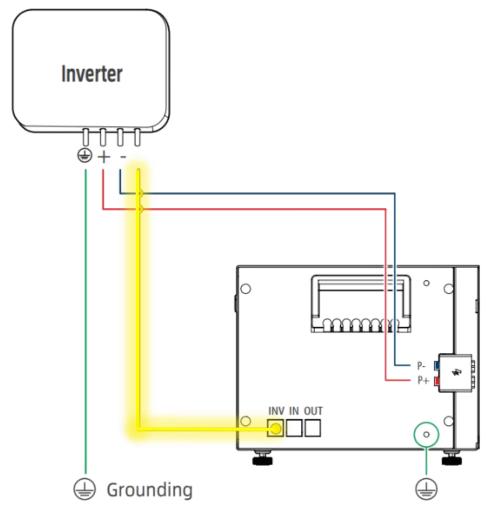
PE Requirement:

- 1. PE cross-section ≥ 10 m²
- 2. PE Material: Copper wire



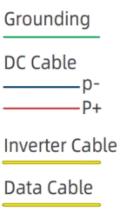
Battery
Box

LV5.0: Data Cable Connection



Data cable requirements:

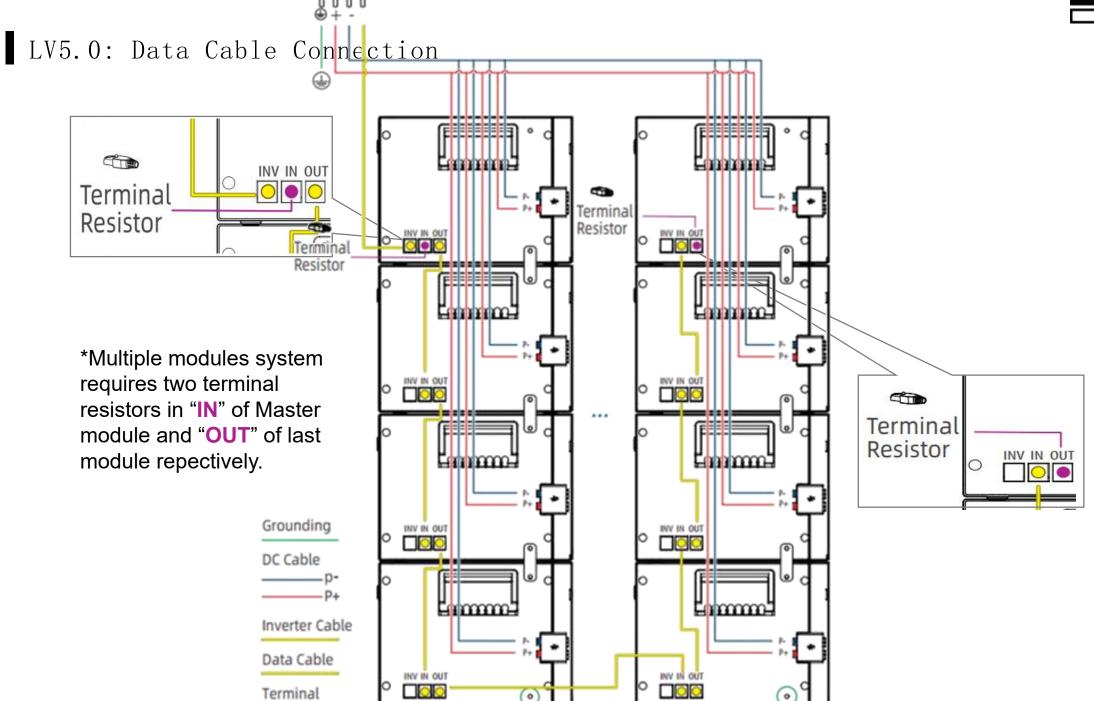
- 1. Category: Cat5, Cat5e or higher
- 2. Plug type: Metal Shielded RJ45
- 3. UV-resistant for outdoor
- 4. Maximum cable length: 10 m.



^{*}One module system does not require terminal resistors.

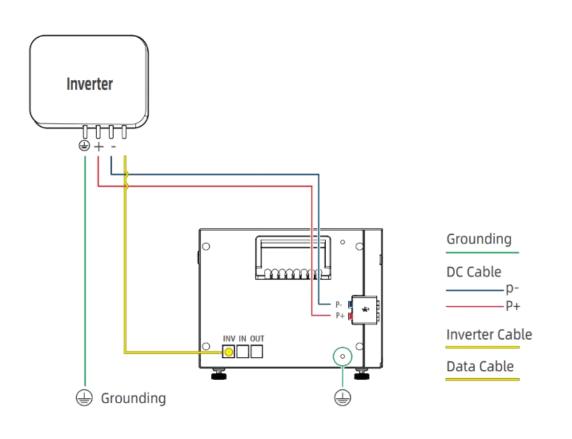


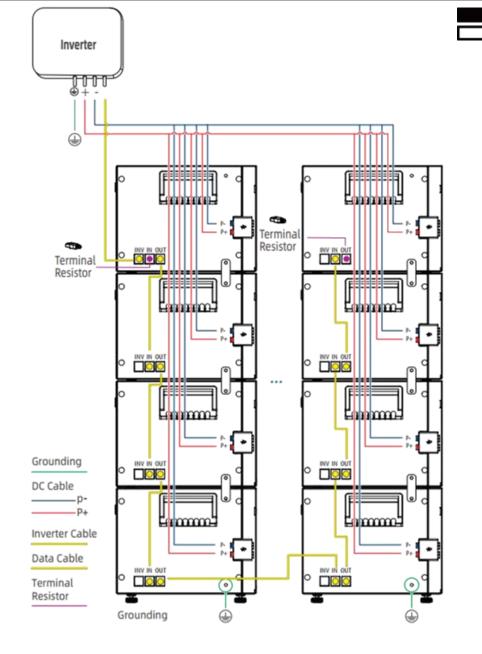






LV5.0: Diagram



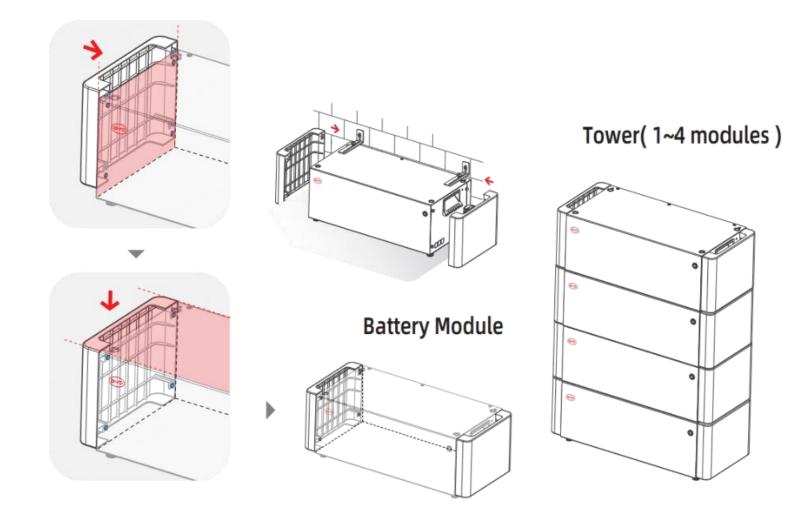


Battery Box



LV5.0: Cover

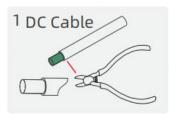




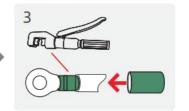




Battery Box







Wire stripping

Connect the OT terminal to the core cable

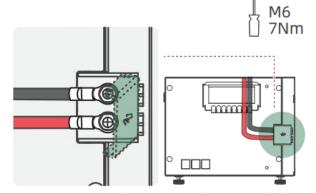
Press the hydraulic clamp to the OT terminal and the wire core



Put a heat shrink tube on the DC cable, and then heat it with a heat gun



Another DC cable is processed in the same way



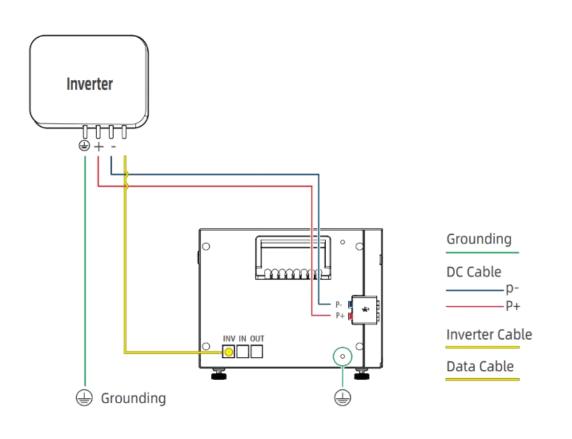
Unscrew and connect the DC cable

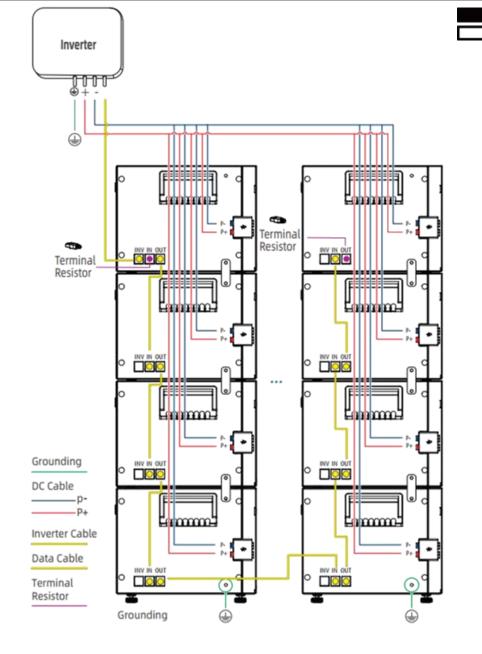
DC Cable requirements:

- 1. Conductor cross-section:≥ 16m²
- 2. Maximum cable length: 10 m



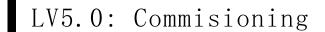
LV5.0: Diagram



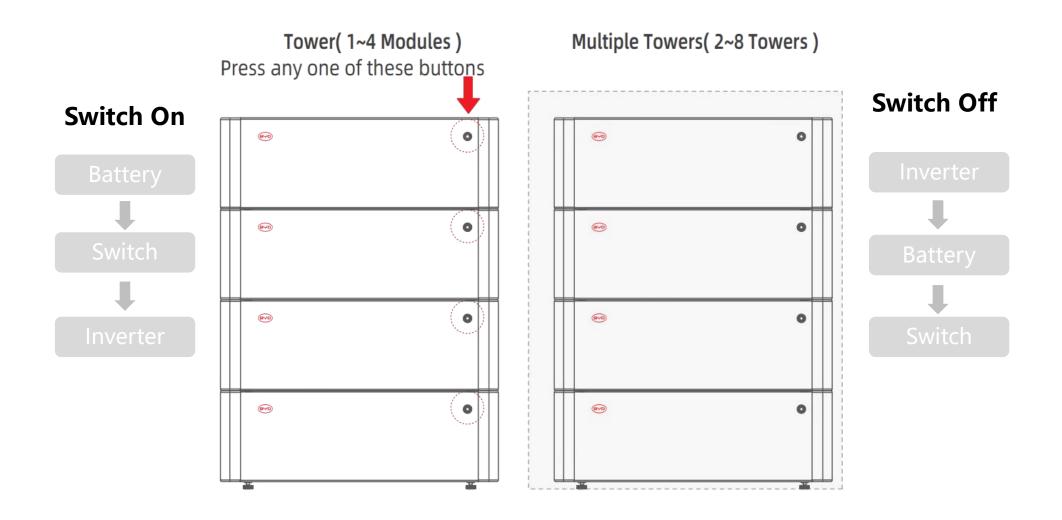


Battery Box

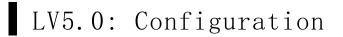




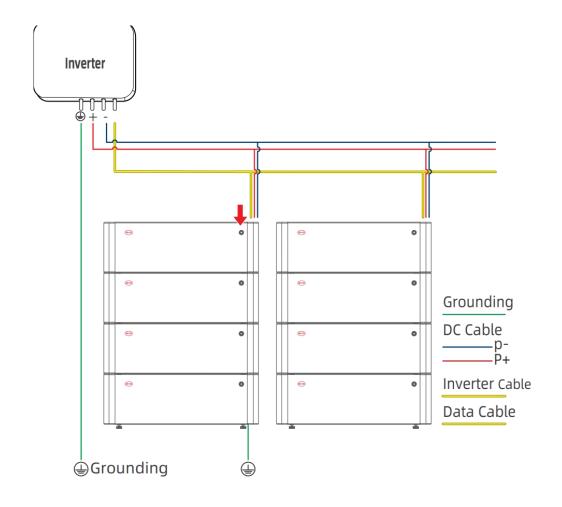












Configurate Automatically

LED Signal Code







LV5.0: APP_BYD Energy



- 1. Download the APP "**BYD Energy**". Ensure that your device (cell phone) can access the Internet
- 2. A welcome page will appear and then jump to the login screen, you need to register a new account for the first time to login the APP.
- 3. Scan the SN code of module to add the module.
- 4. Connect master module, then you can read the battery information of the master and slave, detect the battery firmware version information and update firmware version to the latest.
- 5. After adding the device successfully, the device is offine. Follow the prompts to connect the battery to the Internet







BYD Battery-Box LV5.0 TECHNICAL INFORMATION minimum configuration list

EN-TECHNICAL INFORMATION Oct-2024 Version1.5

		Minim	ım Configuration for Si	nale Dhase	Minim	um Configuration for Th	ree Dhace		
	Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase			
Compatibl			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	-	-	5:		
	S6-EH1P3.6K-L-EU	≥1	≥2	≥2	2	4	2		
	S6-EH1P4.6K-L-EU	≥1	≥2	≥2	-	(w)	-		
	S6-EH1P5K-L-EU	≥1	≥2	≥2	-	6 1 3	=		
	S6-EH1P6K-L-EU	≥1	≥2	≥2	ā.	.T	7		
	S6-EH1P3K-L-PRO	≥1	≥1	≥1	8	(2)	El .		
	S6-EH1P3.6K-L-PRO	≥1	≥1	≥1	ů.	12	2		
	S6-EH1P5K-L-PRO	≥1	≥2	≥2	×	140	*		
	S6-EH1P6K-L-PRO	≥1	≥2	≥2	7		7		
	S6-EH1P8K-L-PRO	≥1	≥3	≥3	ē	2 <u>5</u> 5	5		
	S6-EH1P3K-L-PLUS	≥1	≥1	≥1	2	(2)	2		
	S6-EH1P3.6K-L-PLUS	≥1	≥1	≥1	2	(22)	20		
	S6-EH1P5K-L-PLUS	≥1	≥2	≥2	-	140	-		
	S6-EH1P6K-L-PLUS	≥1	≥2	≥2	75	(1)	₹.		
solis	S6-EH1P8K-L-PLUS	≥1	≥3	≥3	5		7		
	S6-EH1P12K-L	≥1	≥4	≥4	8	(2)	El .		
	S6-EH1P14K-L	≥1	≥4	≥4	9	140	2		
	S6-EH1P16K-L	≥1	≥5	≥5		8 1 3	+1		
	S6-EH3P8K-L	15	173	5	≥1	≥3	≥3		
	S6-EH3P10K-L	8	(270)	5	≥1	≥4	≥4		
	S6-EH3P12K-L	2	120	-	≥1	≥4	≥4		
	S6-EH3P15K-L	22	9 - 31	<u> </u>	≥1	≥5	≥5		
	S5-EA1P3K-L	≥1	≥1	≥1	-		*		
	S6-EA1P3.6K-L	≥1	≥1	≥1	ē	(\$)	5		
	S6-EA1P4.6K-L	≥1	≥2	≥2	2	121	2		
	S6-EA1P5K-L	≥1	≥2	≥2	ū.	(2)	Ψ.		
	S6-EA1P6K-L	≥1	≥2	≥2	-	-	-		
	S5-E01P4K-48	æ	853	≥2	77	8 1. 1	€:		
	S5-E01P4K-48-P	æ	17	≥2	75		5.		





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-E01P5K-48			≥2	-	-	0 #)				
	S5-E01P5K-48-P		· .	≥2	-	()					
solis	S6-E01P4K-48		ē	≥2		5	970				
	S6-E01P5K-48		4	≥2	2	4	121				
	Battery firmware: BMS ≥V1.88; Inverter firmware ≥V06-10										
	SUN-5KSG04LP3-EU	-	-		≥1	≥2	≥2				
	SUN-6KSG04LP3-EU	-		4 5 4	≥1	≥2	≥2				
	SUN-8KSG04LP3-EU	-	2	-	≥1	≥3	≥3				
	SUN-10KSG04LP3-EU	-	<u>a</u>	12	≥1	≥4	≥4				
	SUN-12KSG04LP3-EU	-	-	(+)	≥1	≥4	≥4				
	SUN-7.6K-SG01LP1-EU	≥1	≥3	≥3	-	75	8 7 -1				
	SUN-8K-SG01LP1-EU	≥1	≥3	≥3	-	-	-				
	SUN-12K-SG01LP1-EU	≥1	≥4	≥4		일	320				
	SUN-14K-SG01LP1-EU	≥1	≥4	≥4	- 2	2	-				
	SUN-16K-SG01LP1-EU	≥1	≥5	≥5	-	¥	9#3				
	SUN-3.6K-SG03LP1-EU	≥1	≥2	≥2	127						
Davis	SUN-5K-SG03LP1-EU	≥1	≥2	≥2	: 5		(5)				
Deye	SUN-6K-SG03LP1-EU	≥1	≥2	≥2	12	≃	553				
	SUN-3K-SG04LP1-EU	≥1	≥1	≥1	-2)	722	(S 2 3)				
	SUN-3.6K-SG04LP1-EU	≥1	≥2	≥2	-	.7	6 7 9				
	SUN-5K-SG04LP1-EU	≥1	≥2	≥2		5	8 7 1				
	SUN-6K-SG04LP1-EU	≥1	≥2	≥2	5		-				
	SUN-3.6K-SG05LP1-EU	≥1	≥2	≥2	- 2	2	423				
	SUN-5K-SG05LP1-EU	≥1	≥2	≥2	2)	2	12				
	SUN-6K-SG05LP1-EU	≥1	≥2	≥2	-	=	0 = 3				
	SUN-7K-SG05LP1-EU	≥1	≥3	≥3	1.5						
	SUN-7.6K-SG05LP1-EU	≥1	≥3	≥3	. 5		250				
	SUN-8K-SG05LP1-EU	≥1	≥3	≥3	2	2	:2:				





			Minimum Configuration for Single Phase			Minimum Configuration for Three Phase				
ompatible Inverter (1- / 3-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	T-	-				
	R4KL1-G2	≥1	≥2	≥2	1.20	120	2			
	R4K6L1-G2	≥1	≥2	≥2	2	2	12			
	R5KL1-G2	≥1	≥2	≥2	-	-	*			
	R6KL1-G2	≥1	≥2	≥2	-	-				
	R8KL1-G2	≥1	≥3	≥3	1.5	-	ā			
	R3KL1D-G2	≥1	≥1	≥1	2	2	2			
EGAREVO	R3K6L1D-G2	≥1	≥2	≥2	_	- 2	22			
	R4KL1D-G2	≥1	≥2	≥2	-	-	-			
	R4K6L1D-G2	≥1	≥2	≥2	-	-	5			
	R5KL1D-G2	≥1	≥2	≥2	V53		-			
	R6KL1D-G2	≥1	≥2	≥2	<u> </u>	2	2			
	R8KL1D-G2	≥1	≥3	≥3	-	-	<u> </u>			
	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	21	≥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			
victron energy	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			





		Minimum Configuration for Single Phase			Minimum Configuration for Three Phase		
ompatible Inverter (1- / 3-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	-	-	*
SMA	SI 6.0H	≥2	≥3	≥3	+	-	÷
	SI 8.0H	≥2	≥4	≥4			in the second
	Battery firmware: BMS ≥V1.88; I	nverter firmware ≥3.	30.12 R				
	Axpert MAX 8000	25	2	≥3	S 2 0	(4)	~
	Axpert MAX E-11K	-	-	≥4	4	-	-
	Axpert MAX E 11K TWIN	=	ter.	≥4	5 1 3	· ·	>=
	MAX II 8K Duplex	-	-	≥3	7	5	-
	MAX II 11K Duplex	22	22	≥4	<u> </u>		125
	VM II Elite 6KW	2	2	≥2	245	(4)	2
	VM III 6000 TWIN	×	(*	≥2	0 1 0	-	*
	VM IV 6K TWIN	-	-	≥2	· •		-
	VM IV 5.6K	-	-	≥2	-	-	-
	AXPERT KING II 6K	24	2	≥2	121	14	2
	AXPERT MKS III 6K TWIN	#:		≥2	(<u>4</u>)	-	2
	AXPERT ULTRA 8K	÷	=	≥3	+		*
oltronic Power	AXPERT ULTRA 11K	-	·	≥4	-	-	
	InfiniSolar WP TWIN HMI 12KW	-	-	-	≥1	≥4	≥4
	InfiniSolar WP TWIN HMI 15KW	2	42	-	≥1	≥5	≥5
	Infinisolar WP 10KW	+	-	-	≥1	≥4	≥4
	Infinisolar WP 12KW	*	Œ	1341	≥1	≥4	≥4
	Infinisolar WP 15KW	-	-	-	≥1	≥5	≥5
	InfiniSolar WP TWIN 10KW	2	20	-	≥1	≥4	≥4
	InfiniSolar WP TWIN 12KW	2	2	-	≥1	≥4	≥4
	InfiniSolar WP TWIN 15KW	-	14	-	≥1	≥5	≥5
	InfiniSolar WP Elite 10KW	#	*		≥1	≥4	≥4
	InfiniSolar WP Elite 12KW	5	·	-	≥1	≥4	≥4
	Battery firmware: BMS ≥V1.88; Inverter firmware :InfiniSolar W	P TWIN HMI 12kw/15	ikw>Master V3012; InfiniSol	ar WP 10KW/12KW/15KW>N	Aaster V223;InfiniS	olar WP TWIN 10KW/12KW/15	KW>Master V1012





ompatible 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
	GW3000-ES-20	≥1	≥1	≥1	9+3	-	-
	GW3600-ES-20	≥1	≥2	≥2	-	-	7.
	GW5000-ES-20	≥1	≥2	≥2	4 5 4	-	
	GW6000-ES-20	≥1	≥2	≥2			
	GW3600M-ES-20	≥1	≥1	≥1	(21)	- 2	32
	GW5000M-ES-20	≥1	≥1	≥1	(±)	-	#
	GW6000M-ES-20	≥1	≥1	≥1	970	-	15
	GW6000-SBP-20	≥1	≥2	≥2	7.	- 3	₩.
OODWE	GW5000-SBP-20	≥1	≥2	≥2	320	1.20	@
	GW3600-SBP-20	≥1	≥2	≥2	-	(2)	1/2
	GW6000-ES-BR20	≥1	≥2	≥2	(F)	1-5	5-
	GW3500L-ES-BR20	≥1	≥2	≥2		1970	177
	GW3600-ES-BR20	≥1	≥2	≥2	(5)	70	5
	GW8000-ES-C10	≥1	≥3	≥3	12	12	12
	GW10K-ES-C10	≥1	≥4	≥4	321	2	(2)
	GW12K-ES-C10	≥1	≥4	≥4	-	-	*

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.



FD-LV 5.0

Battery installation video





BATTERYBOX LV5.0

Battery Installation Video







Q&A