

BYD BATTERY-BOX PREMIUM LVL MINIMUM CONFIGURATION LIST – V1.9



Note: Max. 64 Systems in parallel connection // [DE] max. 64 Systeme in Parallelschaltung // [ES] Max. 64 sistemas en conexión en paralelo // [IT] Max. 64 Sistemi in connessione parallela

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1. Minimum Configuration List ON Grid

DE: Minimale Konfiguration ON Grid **ES:** Configuración mínima para sistemas conectados a red **IT:** Configurazione minima per sistemi in rete

Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase	Minimum Configuration for Three Phase
DE: Kompatibler Wechselrichter ES: Inversores compatibles IT: Inverter compatibile		DE: Minimale Konfiguration für eine Phase ES: Cantidad mínima de baterías para sistemas monofásicos a red IT: Numero minimo di batterie per sistemi monofase in rete	DE: Minimale Konfiguration für drei Phasen ES: Cantidad mínima de unidades para sistemas trifásicos a red IT: Numero minimo di batterie per sistemi trifase in rete
SMA	SI 4.4M	≥1 x LVL 15.4	≥1 x LVL 15.4
	SI 6.0H/SI 8.0H	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery Firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ 1.3.1R		
Victron	Multiplus 48/3000/35	≥1 x LVL 15.4	≥1 x LVL 15.4
	Multiplus 48/5000/70	≥1 x LVL 15.4	≥1 x LVL 15.4
	Multigrad 48/3000/35	≥1 x LVL 15.4	≥1 x LVL 15.4
	Quattro 48/5000/70-100/100	≥1 x LVL 15.4	≥1 x LVL 15.4
	Quattro 48/8000/110-100/100	≥1 x LVL 15.4	≥1 x LVL 15.4
	Quattro 48/10000/140- 100/100	≥1 x LVL 15.4	≥1 x LVL 15.4
	Quattro 48/15000/200- 100/100	≥1 x LVL 15.4	≥1 x LVL 15.4
	Easysolar 48/3000/35-50 MPPT150/70	≥1 x LVL 15.4	≥1 x LVL 15.4
Easysolar 48/5000/70-100 MPPT150/100	≥1 x LVL 15.4	≥1 x LVL 15.4	
Battery firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ V2.52			
Selectronic	SPMC480-AU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SPMC481-AU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SPMC482-AU	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery Firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ V12.19		
Studer	XTS1400-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTM2600-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTM4000-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTH6000-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTH8000-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	VT-65/80	≥1 x LVL 15.4	≥1 x LVL 15.4
	VS-70/120	≥1 x LVL 15.4	≥1 x LVL 15.4
Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; Inverter firmware ≥ R664			
GoodWe	ES Series/ EM Series	≥1 x LVL 15.4	/
	BP/SBP Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11		
Solis	RHI-3K / 3.6K / 4.6K / 5K / 6K-48ES-5G	≥1 x LVL 15.4	/
	RAI-3K-48ES-5G	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.08; Solis RHI (3-6K)-48ES-5G firmware ≥ V330022, RAI-3K-48ES-5G ≥ V0B0009		
Schneider	Conext XW Pro	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW :v1.14-BN465, XW FW: 1.10		



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2. Minimum Configuration List ON Grid + Backup

DE: Minimale Konfiguration für Notstrom

ES: Configuración mínima para sistemas energía de emergencia

IT: Configurazione minima per sistemi di alimentazione di emergenza

Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase	Minimum Configuration for Three Phase
DE: Kompatibler Wechselrichter		DE: Minimale Konfiguration für eine Phase	DE: Minimale Konfiguration für drei Phasen
ES: Inversores compatibles		ES: Cantidad mínima de baterías para sistemas monofásicos a red con backup	ES: Cantidad mínima de baterías para sistemas trifase a red con backup
IT: Inverter compatibile		IT: Numero minimo di batterie per sistemi monofase in rete con backup	IT: Numero minimo di batterie per sistemi trifase in rete con backup
SMA	SI 4.4M	≥1 x LVL 15.4	≥2 x LVL 15.4
	SI 6.0H/ SI 8.0H	≥1 x LVL 15.4	≥3 x LVL 15.4
	Battery Firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ 1.3.1R		
Victron	Multiplus 48/3000/35	≥1 x LVL 15.4	≥2 x LVL 15.4
	Multiplus 48/5000/70	≥1 x LVL 15.4	≥2 x LVL 15.4
	Multigrid 48/3000/35	≥1 x LVL 15.4	≥2 x LVL 15.4
	Quattro 48/5000/70-100/100	≥1 x LVL 15.4	≥2 x LVL 15.4
	Quattro 48/8000/110-100/100	≥1 x LVL 15.4	≥3 x LVL 15.4
	Quattro 48/10000/140- 100/100	≥1 x LVL 15.4	≥4 x LVL 15.4
	Quattro 48/15000/200- 100/100	≥2 x LVL 15.4	≥6 x LVL 15.4
	Easysolar 48/3000/35-50 MPPT150/70	≥1 x LVL 15.4	≥1 x LVL 15.4
	Easysolar 48/5000/70-100 MPPT150/100	≥1 x LVL 15.4	≥2 x LVL 15.4
Battery firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ V2.52			
Selectronic	SPMC480-AU/ SPMC481-AU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SPMC482-AU	≥1 x LVL 15.4	≥3 x LVL 15.4
	Battery Firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ V12.19		
Studer	XTS1400-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTM2600-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTM4000-48	≥1 x LVL 15.4	≥2 x LVL 15.4
	XTH6000-48	≥1 x LVL 15.4	≥3 x LVL 15.4
	XTH8000-48	≥2 x LVL 15.4	≥4 x LVL 15.4
	VT-65/80	≥1 x LVL 15.4	≥1 x LVL 15.4
	VS-70/120	≥1 x LVL 15.4	≥1 x LVL 15.4
	Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; Inverter firmware ≥ R664		
GoodWe	ES Series/ EM Series	≥1 x LVL 15.4	/
	BP/SBP Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11		
Solis	RHI-3K / 3.6K / 4.6K / 5K / 6K-48ES-5G	≥1 x LVL 15.4	/
	RAI-3K-48ES-5G	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.08; Solis RHI (3-6K)-48ES-5G firmware ≥ V330022, RAI-3K-48ES-5G ≥V0B0009		
Schneider	Conext XW Pro	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW :v1.14-BN465, XW FW: 1.10		



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3. Minimum Configuration List OFF Grid Typical Use

DE: Minimale Konfiguration Off Grid für den typischen Gebrauch

ES: Configuración mínima para sistemas aislados, uso convencional

IT: Configurazione minima per sistemi in isola, uso tipico

Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase	Minimum Configuration for Three Phase
DE: Kompatibler Wechselrichter ES: Inversores compatibles IT: Inverter compatibile		DE: Minimale Konfiguration für eine Phase ES: Cantidad mínima de baterías para sistemas monofásicos aisladas IT: Numero minimo di batterie per sistemi monofase in isola	DE: Minimale Konfiguration für drei Phasen ES: Cantidad mínima de baterías para sistemas trifase aisladas IT: Numero minimo di batterie per sistemi trifase in isola
SMA	SI 4.4M	≥1 x LVL 15.4	≥2 x LVL 15.4
	SI 6.0H/ SI 8.0H	≥1 x LVL 15.4	≥3 x LVL 15.4
	Battery Firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ 1.3.1R		
Victron	Multiplus 48/3000/35	≥1 x LVL 15.4	≥1 x LVL 15.4
	Multiplus 48/5000/70	≥1 x LVL 15.4	≥2 x LVL 15.4
	Multigrad 48/3000/35	≥1 x LVL 15.4	≥1 x LVL 15.4
	Quattro 48/5000/70-100/100	≥1 x LVL 15.4	≥2 x LVL 15.4
	Quattro 48/8000/110-100/100	≥1 x LVL 15.4	≥2 x LVL 15.4
	Quattro 48/10000/140- 100/100	≥1 x LVL 15.4	≥3 x LVL 15.4
	Quattro 48/15000/200- 100/100	≥2 x LVL 15.4	≥4 x LVL 15.4
	Easysolar 48/3000/35-50 MPPT150/70	≥1 x LVL 15.4	≥1 x LVL 15.4
	Easysolar 48/5000/70-100 MPPT150/100	≥1 x LVL 15.4	≥2 x LVL 15.4
Battery firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ V2.52			
Selectronic	SPMC480-AU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SPMC481-AU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SPMC482-AU	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery Firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ V12.19		
Studer	XTS1400-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTM2600-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTM4000-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTH6000-48	≥1 x LVL 15.4	≥2 x LVL 15.4
	XTH8000-48	≥1 x LVL 15.4	≥2 x LVL 15.4
	VT-65	≥1 x LVL 15.4	≥1 x LVL 15.4
	VT-80	≥1 x LVL 15.4	≥1 x LVL 15.4
	VS-70	≥1 x LVL 15.4	≥1 x LVL 15.4
	VS-120	≥1 x LVL 15.4	≥1 x LVL 15.4
Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; Inverter firmware ≥ R664			
GoodWe	ES Series/ EM Series	≥1 x LVL 15.4	/
	BP/SBP Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11		
Schneider	Conext XW Pro	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW :v1.14-BN465, XW FW: 1.10		



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4. Minimum Configuration List OFF Grid for Inrush Power Use			
DE: Minimale Konfiguration Off Grid, für hohe Einschaltströme			
ES: Configuración mínima para sistemas aislados para soportar picos de corriente máximos			
IT: Configurazione minima per sistemi in isola per potenza di pico ammissibile			
Compatible Inverter (1- / 3-phase)		Minimum Configuration for Single Phase	
DE: Kompatibler Wechselrichter		DE: Minimale Konfiguration für eine Phase	
ES: Inversores compatibles		ES: Cantidad mínima de baterías para sistema monofase aislada con pico	
IT: Inverter compatibile		IT: Numero minimo di batterie per sistemi monofase in isola con pico	
		Minimum Configuration for Three Phase (remarks for inrush power)	
		DE: Minimale Konfiguration für drei Phasen	
		ES: Cantidad mínima de baterías para sistemas trifase aisladas con pico	
		IT: Numero minimo di batterie per sistemi trifase in isola con pico	
SMA	SI 4.4M	≥1 x LVL 15.4	≥2 x LVL 15.4 (5.5 kW, 3 sec per Inverter)
	SI 6.0H/ SI 8.0H	≥1 x LVL 15.4	≥3 x LVL 15.4 (11 kW, 3 sec per Inverter)
	Battery Firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ 1.3.1R		
Victron	Multiplus 48/3000/35	≥1 x LVL 15.4	≥2 x LVL 15.4 (6 kW, 5 sec per Inverter)
	Multiplus 48/5000/70	≥1 x LVL 15.4	≥2 x LVL 15.4 (10 kW, 5 sec per Inverter)
	Multigrad 48/3000/35	≥1 x LVL 15.4	≥2 x LVL 15.4 (6 kW, 5 sec per Inverter)
	Quattro 48/5000/70-100/100	≥1 x LVL 15.4	≥2 x LVL 15.4 (10 kW, 5 sec per Inverter)
	Quattro 48/8000/110-100/100	≥1 x LVL 15.4	≥3 x LVL 15.4 (16 kW, 5 sec per Inverter)
	Quattro 48/10000/140- 100/100	≥1 x LVL 15.4	≥4 x LVL 15.4 (20 kW, 5 sec per Inverter)
	Quattro 48/15000/200- 100/100	≥2 x LVL 15.4	≥6 x LVL 15.4 (25 kW, 5 sec per Inverter)
	Easysolar 48/3000/35-50 MPPT150/70	≥1 x LVL 15.4	≥1 x LVL 15.4 (6 kW, 5 sec per Inverter)
	Easysolar 48/5000/70-100 MPPT150/100	≥1 x LVL 15.4	≥2 x LVL 15.4 (10 kW, 5 sec per Inverter)
Battery firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ V2.52			
Selectronic	SPMC480-AU	≥1 x LVL 15.4	≥2 x LVL 15.4 (9.4 kW, 30 sec per Inverter)
	SPMC481-AU	≥1 x LVL 15.4	≥2 x LVL 15.4 (12 kW, 30 sec per Inverter)
	SPMC482-AU	≥1 x LVL 15.4	≥3 x LVL 15.4 (18 kW, 30 sec per Inverter)
	Battery Firmware: BMU ≥ V1.7, BMS ≥ V1.3; Inverter firmware ≥ V12.19		
Studer	XTS1400-48	≥1 x LVL 15.4	≥1 x LVL 15.4 (2.8 kVA, 5 sec per Inverter)
	XTM2600-48	≥1 x LVL 15.4	≥1 x LVL 15.4 (6.5 kVA, 5 sec per Inverter)
	XTM4000-48	≥1 x LVL 15.4	≥2 x LVL 15.4 (10.5 kVA, 5 sec per Inverter)
	XTH6000-48	≥1 x LVL 15.4	≥3 x LVL 15.4 (15 kVA, 5 sec per Inverter)
	XTH8000-48	≥2 x LVL 15.4	≥4 x LVL 15.4 (21 kVA, 5 sec per Inverter)
	VT-65/ VT-80	≥1 x LVL 15.4	≥1 x LVL 15.4
	VS-70	≥1 x LVL 15.4	≥1 x LVL 15.4
	VS-120	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; Inverter firmware ≥ R664		
Schneider	Conext XW Pro	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW :v1.14-BN465, XW FW: 1.10		

Note for Inrush Power: Each inverter has their inrush power for off grid applications. Please make sure to consult the inverter manufacturer for the right value of correspondences.

DE: Hinweis zu Einschaltströmen: Jeder Wechselrichter hat seine Einschaltströme für OFF-Grid Anwendungen. Bitte erkundigen Sie sich beim Hersteller des Wechselrichters nach dem richtigen Korrespondenzwert.

ES: Nota sobre los picos de corriente: Cada inversor presenta unas características distintas con respecto a los picos de corriente permitidos así que es recomendable consultar con el fabricante de inversores que la información de esta tabla es la más reciente.

IT: Note per Potenza di Pico Ammissibile: ogni inverter ha la sua Potenza di Pico Ammissibile per applicazioni in isola (Off-Grid). Consulta i valori correspondent dell'inverter usato.



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