

# BYD BATTERY-BOX PREMIUM LVL MINIMUM CONFIGURATION LIST – V1.6



**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	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	ES: Cantidad mínima de unidades para sistemas trifásicos a red	
IT: Inverter compatibile	IT: Numero minimo di batterie per sistemi monofase in rete	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 6.0M	≥1 x LVL 15.4	≥2 x LVL 15.4
	SI 8.0M	≥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
	Multigrid 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	≥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	≥1 x LVL 15.4	/
	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		



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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 6.0M	≥1 x LVL 15.4	≥3 x LVL 15.4
	SI 8.0M	≥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	≥1 x LVL 15.4	≥2 x LVL 15.4
	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	≥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	≥1 x LVL 15.4	/
	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		



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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

<b>Compatible Inverter (1- / 3-phase)</b>		<b>Minimum Configuration for Single Phase</b>	<b>Minimum Configuration for Three Phase</b>
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 6.0M	≥ 1 x LVL 15.4	≥ 3 x LVL 15.4
	SI 8.0M	≥ 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
	Multigrid 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	≥ 1 x LVL 15.4	/
	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		



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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

<b>Compatible Inverter (1- / 3-phase)</b>		<b>Minimum Configuration for Single Phase</b>	<b>Minimum Configuration for Three Phase</b> <i>(remarks for inrush power)</i>
DE: Kompatibler Wechselrichter ES: Inversores compatibles IT: Inverter compatibile		DE: Minimale Konfiguration für eine Phase ES: Cantidad mínima de baterías para sistema monofase aislada con pico IT: Numero minimo di batterie per sistemi monofase in isola con pico	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 <i>(5.5 kW, 3 sec per Inverter)</i>
	SI 6.0M	≥1 x LVL 15.4	≥3 x LVL 15.4 <i>(11 kW, 3 sec per Inverter)</i>
	SI 8.0M	≥1 x LVL 15.4	≥3 x LVL 15.4 <i>(11 kW, 3 sec per Inverter)</i>
	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 <i>(6 kW, 5 sec per Inverter)</i>
	Multiplus 48/5000/70	≥1 x LVL 15.4	≥2 x LVL 15.4 <i>(10 kW, 5 sec per Inverter)</i>
	Multigrad 48/3000/35	≥1 x LVL 15.4	≥2 x LVL 15.4 <i>(6 kW, 5 sec per Inverter)</i>
	Quattro 48/5000/70-100/100	≥1 x LVL 15.4	≥2 x LVL 15.4 <i>(10 kW, 5 sec per Inverter)</i>
	Quattro 48/8000/110-100/100	≥1 x LVL 15.4	≥3 x LVL 15.4 <i>(16 kW, 5 sec per Inverter)</i>
	Quattro 48/10000/140- 100/100	≥1 x LVL 15.4	≥4 x LVL 15.4 <i>(20 kW, 5 sec per Inverter)</i>
	Quattro 48/15000/200- 100/100	≥2 x LVL 15.4	≥6 x LVL 15.4 <i>(25 kW, 5 sec per Inverter)</i>
	Easysolar 48/3000/35-50 MPPT150/70	≥1 x LVL 15.4	≥1 x LVL 15.4 <i>(6 kW, 5 sec per Inverter)</i>
	Easysolar 48/5000/70-100 MPPT150/100	≥1 x LVL 15.4	≥2 x LVL 15.4 <i>(10 kW, 5 sec per Inverter)</i>
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 <i>(9.4 kW, 30 sec per Inverter)</i>
	SPMC481-AU	≥1 x LVL 15.4	≥2 x LVL 15.4 <i>(12 kW, 30 sec per Inverter)</i>
	SPMC482-AU	≥1 x LVL 15.4	≥3 x LVL 15.4 <i>(18 kW, 30 sec per Inverter)</i>
	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 <i>(2.8 kVA, 5 sec per Inverter)</i>
	XTM2600-48	≥1 x LVL 15.4	≥1 x LVL 15.4 <i>(6.5 kVA, 5 sec per Inverter)</i>
	XTM4000-48	≥1 x LVL 15.4	≥2 x LVL 15.4 <i>(10.5 kVA, 5 sec per Inverter)</i>
	XTH6000-48	≥1 x LVL 15.4	≥3 x LVL 15.4 <i>(15 kVA, 5 sec per Inverter)</i>
	XTH8000-48	≥2 x LVL 15.4	≥4 x LVL 15.4 <i>(21 kVA, 5 sec per Inverter)</i>
	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	≥2 x LVL 15.4
Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; Inverter firmware ≥ R664			

**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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