

BYD BATTERY-BOX PREMIUM LVL MINIMUM CONFIGURATION LIST – V2.5



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) DE: Kompatibler Wechselrichter ES: Inversor compatible IT: Inverter compatibile		Minimum Configuration for Single Phase 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	Minimum Configuration for Three Phase 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
	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 MPPT 150/70	≥1 x LVL 15.4	≥1 x LVL 15.4
	Easysolar 48/5000/70-100 MPPT 150/100	≥1 x LVL 15.4	≥1 x LVL 15.4
	Multi RS Solar 48/6000	≥1 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	≥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/ XTM4000-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTH6000-48/ 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
	Next 3	/	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; Inverter firmware (expect Next 3) ≥ R664; inverter firmware (Next 3) ≥ 0.5.0.0.		
GoodWe	ES/ EM/ BP/ SBP Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11.		
Solis	RHI-(3-6)K-48ES-5G/ RAI-3K-48ES-5G	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.08; Inveter firmware: RHI (3-6K)-48ES-5G ≥ V330022, RAI-3K-48ES-5G ≥ V0B0009.		
	RHI-(3-5)K-48ES	≥1 x LVL 15.4	/
	S5-EH1P(3-6)K-L	≥1 x LVL 15.4	/
	S6-EH1P(3/3.6)K-L-EU	≥1 x LVL 15.4	/
	S6-EH1P(4.6/5/6)K-L-EU/ S6-EH1P(3-6)K-L-PRO	≥1 x LVL 15.4	≥1 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; inverter firmware: RHI-(3-5)K-48ES/ S5-EH1P(3-6)K-L ≥ V35, S6-EH1P(3-6)K-L-EU/ S6-EH1P(3-6)K-L-PRO ≥ V320020.		

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**Battery
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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) DE: Kompatibler Wechselrichter ES: Inversor compatible IT: Inverter compatibile		Minimum Configuration for Single Phase 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	Minimum Configuration for Three Phase 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
Schneider	XW Pro 8548	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW : V1.14-BN465, XW FW: 1.10.		
	XW Pro 6848 NA	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware: V1.17.		
RAION	J5/ M8	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware of J5: U1≥ 50.05; U2 ≥ 19.17; Inverter firmware of M8: U1 ≥ 46.09 or 72.05; U2 ≥ 12.25.		
Deye	SUN-3.6/5/6/7.6/8K-SG01LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-12/14/16K-SG01LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-3.6/5/6K-SG03LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ C351.		
	SUN-3/3.6/5/6K-SG04LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-3.6/5/6/7.6/8K-SG05LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-5/6/8/10/12K-SG04LP3-EU	/	≥1 x LVL 15.4
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ 1001-C015.		
Hoymiles	HYS-LV-EUG1 Series	≥1 x LVL 15.4	/
	HAS-LV-EUG1 Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware ≥ 0.2.22		
Sosen	SSE-HL3K-8K-P1EU	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.29, BMS ≥ V1.14; Inverter firmware ≥ 1.28.		

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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) DE: Kompatibler Wechselrichter ES: Inversores compatibles IT: Inverter compatibile		Minimum Configuration for Single Phase 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	Minimum Configuration for Three Phase DE: Minimale Konfiguration für drei Phasen ES: Cantidad mínima de baterías para sistemas trifase a red IT: Numero minimo di batterie per sistemi trifase in rete
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 MPPT 150/70	≥1 x LVL 15.4	≥1 x LVL 15.4
	Easysolar 48/5000/70-100 MPPT 150/100	≥1 x LVL 15.4	≥2 x LVL 15.4
	Multi RS Solar 48/6000	≥1 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
	Next3	/	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; Inverter firmware (expect Next 3) ≥ R664; inverter firmware (Next 3) ≥ 0.5.0.0.		
GoodWe	ES/ EM/ BP/ SBP Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11.		
Solis	RHI-(3-6)K-48ES-5G/ RAI-3K-48ES-5G	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.08; Inverter firmware: RHI (3-6K)-48ES-5G ≥ V330022, RAI-3K-48ES-5G ≥ V0B0009.		
	RHI-(3-5)K-48ES	≥1 x LVL 15.4	/
	S5-EH1P(3-6)K-L	≥1 x LVL 15.4	/
	S6-EH1P(3/3.6)K-L-EU	≥1 x LVL 15.4	/
	S6-EH1P(3/3.6)K-PRO	≥1 x LVL 15.4	≥1 x LVL 15.4
	S6-EH1P(4.6/5/6)K-L-EU/ S6-EH1P(5/6)K-PRO	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware: RHI-(3-5)K-48ES/ S5-EH1P(3-6)K-L ≥ V35, S6-EH1P(3-6)K-L-EU/ S6-EH1P(3-6)K-L-PRO ≥ V320020.		

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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	ES: Cantidad mínima de baterías para sistemas trifase 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
Schneider	XW Pro 8548	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW : V1.14-BN465, XW FW: 1.10.		
	XW Pro 6848 NA	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware: V1.17.		
RAION	J5	≥1 x LVL 15.4	≥2 x LVL 15.4
	M8	≥1 x LVL 15.4	≥3 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware of J5: U1 ≥ 50.05; U2 ≥ 19.17. Inverter firmware of M8: U1 ≥ 46.09 or 72.05; U2 ≥ 12.25.		
Deye	SUN-3.6K-SG01/03LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-5K-SG01/03LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-6K-SG01/03LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-7.6/8K-SG01LP1-EU	≥1 x LVL 15.4	≥3 x LVL 15.4
	SUN-12K-SG01LP1-EU	≥2 x LVL 15.4	≥3 x LVL 15.4
	SUN-14/16K-SG01LP1-EU	≥2 x LVL 15.4	≥4 x LVL 15.4
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ C351.		
	SUN-3K-SG04LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-3.6K-SG04/05LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-5K-SG04/05LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-6K-SG04/05LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-7.6/8K-SG05LP1-EU	≥1 x LVL 15.4	≥3 x LVL 15.4
	SUN-5/6/8/10K-SG04LP3-EU	/	≥1 x LVL 15.4
	SUN-12K-SG04LP3-EU	/	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ 1001-C015.		
Hoymiles	HYS-LV-EUG1 Series	≥1 x LVL 15.4	/
	HAS-LV-EUG1 Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware ≥ 0.2.22		
Sosen	SSE-HL3K-8K-P1EU	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.29, BMS ≥ V1.14; Inverter firmware ≥ 1.28.		

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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) DE: Kompatibler Wechselrichter ES: Inversores compatibles IT: Inverter compatibile		Minimum Configuration for Single Phase 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	Minimum Configuration for Three Phase 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
	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 MPPT 150/70	≥1 x LVL 15.4	≥1 x LVL 15.4
	Easysolar 48/5000/70-100 MPPT 150/100	≥1 x LVL 15.4	≥2 x LVL 15.4
	Multi RS Solar 48/6000	≥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/ 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/ XTM4000-48	≥1 x LVL 15.4	≥1 x LVL 15.4
	XTH6000-48/ XTH8000-48	≥1 x LVL 15.4	≥2 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
	Next 3	/	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; Inverter firmware (expect Next 3) ≥ R664; inverter firmware (Next 3) ≥ 0.5.0.0.		
GoodWe	ES/ EM/ BP/ SBP Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11.		
Solis	RHI-(3-6)K-48ES-5G/ RAI-3K-48ES-5G	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.08; Inverter firmware: Solis RHI (3-6K)-48ES-5G firmware ≥ V330022, RAI-3K-48ES-5G ≥ V0B0009.		
	RHI-(3-5)K-48ES/ S5-EH1P(3-6)K-L	≥1 x LVL 15.4	/
	S6-EH1P(3/3.6)K-L-EU	≥1 x LVL 15.4	/
	S6-EH1P3K-L-PRO	≥1 x LVL 15.4	≥1 x LVL 15.4
	S6-EH1P(4.6/5/6)K-L-EU/ S6-EH1P(3.6/5/6)K-L-PRO	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware: RHI-(3-5)K-48ES/ S5-EH1P(3-6)K-L ≥ V35, S6-EH1P(3-6)K-L-EU/ S6-EH1P(3-6)K-L-PRO ≥ V320020.		
Schneider	XW Pro 8548	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW : V1.14-BN465, XW FW: 1.10.		
	XW Pro 6848 NA	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware: V1.17.		

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3. Minimum Configuration List OFF Grid Typical Use

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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 aisladas	ES: Cantidad mínima de baterías para sistemas trifase aisladas
IT: Inverter compatibile		IT: Numero minimo di batterie per sistemi monofase in isola	IT: Numero minimo di batterie per sistemi trifase in isola
RAION	J5	≥1 x LVL 15.4	≥2 x LVL 15.4
	M8	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware of J5: U1 ≥ 50.05; U2 ≥ 19.17. Inverter firmware of M8: U1 ≥ 46.09 or 72.05; U2 ≥ 12.25.		
Deye	SUN-3.6K-SG01/03LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-5K-SG01/03LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-6K-SG01/03LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-7.6/8K-SG01LP1-EU	≥1 x LVL 15.4	≥3 x LVL 15.4
	SUN-12K-SG01LP1-EU	≥2 x LVL 15.4	≥3 x LVL 15.4
	SUN-14/16K-SG01LP1-EU	≥2 x LVL 15.4	≥4 x LVL 15.4
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ C351.		
	SUN-3K-SG04LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-3.6K-SG04/05LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-5K-SG04/05LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-6K-SG04/05LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-7.6/8K-SG05LP1-EU	≥1 x LVL 15.4	≥3 x LVL 15.4
	SUN-5/6/8/10K-SG04LP3-EU	/	≥1 x LVL 15.4
	SUN-12K-SG04LP3-EU	/	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ 1001-C015.		
Hoymiles	HYS-LV-EUG1 Series	≥1 x LVL 15.4	/
	HAS-LV-EUG1 Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware ≥ 0.2.22		
Sosen	SSE-HL3K-8K-P1EU	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.29, BMS ≥ V1.14; Inverter firmware ≥ 1.28.		

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Update: 2025-05-16

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) DE: Kompatibler Wechselrichter ES: Inversores compatibles IT: Inverter compatibile		Minimum Configuration for Single Phase 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	Minimum Configuration for Three Phase <i>(remarks for inrush power)</i> 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 / Multigrid 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)
	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 MPPT 150/70	≥1 x LVL 15.4	≥1 x LVL 15.4 (6 kW, 5 sec per Inverter)
	Easysolar 48/5000/70-100 MPPT 150/100	≥1 x LVL 15.4	≥2 x LVL 15.4 (10 kW, 5 sec per Inverter)
	Multi RS Solar 48/6000	≥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	≥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 kW, 5 sec per Inverter)
	XTM2600-48	≥1 x LVL 15.4	≥1 x LVL 15.4 (6.5 kW, 5 sec per Inverter)
	XTM4000-48	≥1 x LVL 15.4	≥2 x LVL 15.4 (10.5 kW, 5 sec per Inverter)
	XTH6000-48	≥1 x LVL 15.4	≥3 x LVL 15.4 (15 kW, 5 sec per Inverter)
	XTH8000-48	≥2 x LVL 15.4	≥4 x LVL 15.4 (21 kW, 5 sec per Inverter)
	VT-65/ VT-80/ VS-70	≥1 x LVL 15.4	≥1 x LVL 15.4
	VS-120	≥1 x LVL 15.4	≥2 x LVL 15.4
	Next 3	/	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; Inverter firmware (expect Next 3) ≥ R664; inverter firmware (Next 3) ≥ 0.5.0.0.		
Solis	RHI-(3-6)K-48ES-5G/ RAI-3K-48ES-5G	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.08; Inverter firmware: Solis RHI (3-6K)-48ES-5G firmware ≥ V330022, RAI-3K-48ES-5G ≥ V0B0009.		
	RHI-(3-5)K-48ES/ S5-EH1P(3-6)K-L/ S6-EH1P(3/3.6)K-L-EU	≥1 x LVL 15.4	/
	S6-EH1P3K-L-PRO	≥1 x LVL 15.4	≥1 x LVL 15.4
	S6-EH1P(4.6/5/6)K-L-EU/ S6-EH1P(3.6/5/6)K-L-PRO	≥1 x LVL 15.4	≥2 x LVL 15.4
Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware: RHI-(3-5)K-48ES/ S5-EH1P(3-6)K-L ≥ V35, S6-EH1P(3-6)K-L-EU/ S6-EH1P(3-6)K-L-PRO ≥ V320020.			
Schneider	XW Pro 8548	≥1 x LVL 15.4	≥3 x LVL 15.4
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW : V1.14-BN465, XW FW: 1.10		
	XW Pro 6848 NA	≥1 x LVL 15.4	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware: V1.17.		

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Compatible Inverter (1- / 3-phase) DE: Kompatibler Wechselrichter ES: Inversores compatibles IT: Inverter compatibile		Minimum Configuration for Single Phase 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	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
RAION	J5	≥1 x LVL 15.4	≥2 x LVL 15.4
	M8	≥1 x LVL 15.4	≥3 x LVL 15.4
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware of J5: U1 ≥ 50.05; U2 ≥ 19.17. Inverter firmware of M8: U1 ≥ 46.09 or 72.05; U2 ≥ 12.25.		
Deye	SUN-3.6/5/6K-SG01LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-3.6/5/6K-SG03LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-7.6/8K-SG01LP1-EU	≥1 x LVL 15.4	≥3 x LVL 15.4
	SUN-12K-SG01LP1-EU	≥2 x LVL 15.4	≥4 x LVL 15.4
	SUN-14/16K-SG01LP1-EU	≥2 x LVL 15.4	≥5 x LVL 15.4
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ C351.		
	SUN-3K-SG04LP1-EU	≥1 x LVL 15.4	≥1 x LVL 15.4
	SUN-3.6/5/6K-SG04LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-3.6/5/6K-SG05LP1-EU	≥1 x LVL 15.4	≥2 x LVL 15.4
	SUN-7.6/8K-SG05LP1-EU	≥1 x LVL 15.4	≥3 x LVL 15.4
Hoymiles	SUN-5/6/8K-SG05LP1-EU	/	≥1 x LVL 15.4
	SUN-10/12K-SG05LP1-EU	/	≥2 x LVL 15.4
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ 1001-C015.		
	HYS-LV-EUG1 Series	≥1 x LVL 15.4	/
Sosen	HAS-LV-EUG1 Series	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware ≥ 0.2.22.		
Sosen	SSE-HL3K-8K-P1EU	≥1 x LVL 15.4	/
	Battery firmware: BMU ≥ V1.29, BMS ≥ V1.14; Inverter firmware ≥ 1.28.		

Note:

- 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] Jeder Wechselrichter hat seine Einschaltströme für Off-Grid Anwendungen. Bitte erkundigen Sie sich beim Hersteller des Wechselrichters nach dem richtigen Korrespondenzwert.
[ES] 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] ogni inverter ha la sua Potenza di Pico Ammissibile per applicazioni in isola (Off-Grid). Consulta i valori corrispondenti dell'inverter usato.
- Max. 64 Systems in parallel connection**
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[ES] Max. 64 sistemas en conexión en paralelo
[IT] Max. 64 Sistemi in connessione parallela
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