BATTERY-BOX PREMIUM LVS

- Évolutive de 4 kWh à 256 kWh
- Flexibilité maximale pour toute application avec jusqu'à 64 Modules Connectés en parallèle
- Compatible avec les onduleurs de phase 1 et 3 de premier plan
- Batterie de phosphate de fer au lithium sans cobalt (LFP): sécurité maximale, cycle de vie et puissance
- Capable d'assurer la sauvegarde d'urgence en haute puissance et la fonctionnalité hors réseau
- La conception de prise interne brevetée ne nécessite aucun câblage supplémentaire
- Optimisation de l'autoconsommation pour les applications résidentielles et commerciales

BATTERY-BOX PREMIUM LVS

- 4 kWh Module
- La conception modulaire simplifie le Transport et l'Installation

Le BYD Battery-Box Premium LVS est un pack de batteries de phosphate de fer au lithium (LFP) avec un onduleur externe.
Un seul Battery-Box Premium LVS contient entre 1 et 6 modules de batterie LVS empilés en parallèle et peut atteindre la capacité utilisable de 4 à 24.0 kWh dans une tour.

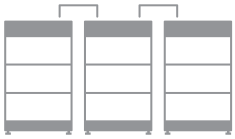
- Battery-Box LVS 4.0 (4 kWh)
- Battery-Box LVS 8.0 (8 kWh)
- Battery-Box LVS 12.0 (12 kWh)
- Battery-Box LVS 16.0 (16 kWh)
- Battery-Box LVS 20.0 (20 kWh - tour unique seulement)
- Battery-Box LVS 24.0 (24 kWh - tour unique seulement)

Connectez-vous jusqu'à 16 Battery-Box LVS 16.0 en parallel pour une taille maximale de 256 kWh.
Capacité d'échelle en ajoutant plus tard des modules LVS ou des tours parallèles de 1 à 4.

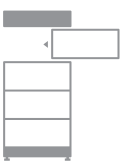
LVS 4.0 — 16 x LVS 16.0

FLEXIBLE, EFFICACE, SIMPLIFIÉ

Méthode de connexion unique
Aucun câblage supplémentaire requis



4 à 256 kWh
Dimensionnement sur mesure pour chaque application



Prolongez à tout moment
S'adapte facilement aux nouvelles exigences

Puissance élevée
pour chaque application

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PARAMÈTRES TECHNIQUES **PREMIUM LVS**

	LVS 4.0	LVS 8.0	LVS 12.0	LVS 16.0	LVS 20.0	LVS 24.0
Module de batterie	LVS (4 kWh, 51.2 V, 45 kg)					
Nombre de modules	1	2	3	4	5	6
Énergie utilisable [1]	4 kWh	8 kWh	12 kWh	16 kWh	20 kWh	24 kWh
Courant de sortie maximal [2]	65 A	130 A	195 A	250 A	250 A	250 A
Courant de sortie de pointe [2]	90 A, 5 s	180 A, 5 s	270 A, 5 s	360 A, 5 s	360 A, 5 s	360 A, 5 s
Dimensions (H / L / P)	528 x 650 x 298 mm	761 x 650 x 298 mm	994 x 650 x 298 mm	1227 x 650 x 298 mm	1460 x 650 x 298 mm	1693 x 650 x 298 mm
Poids	64 kg	109 kg	154 kg	199 kg	244 kg	289 kg
Tension nominale	51.2 V					
Tension de fonctionnement	40-57.6 V					
Température de fonctionnement	-10 °C to +50°C					
Technologie de cellules de batterie	Phosphate de fer au Lithium (sans cobalt)					
La communication	CAN					
Niveau de protection	IP55					
Efficacité aller-retour	≥95%					
Évolutivité [3]	Max. 64 Modules en Parallèle (256 kWh)				tour unique seulement	
Certified Pre-configured Cable Provider (optional)	HIK					
Certification	VDE2510-50 / IEC62619 / CE / CEC / UN38.3					
Applications	ON Grid / ON Grid + Backup / OFF Grid					
Warranty [4]	10 ans					
Onduleurs compatibles	Reportez-vous à la BYD Battery-Box Premium LVS Minimum Configuration List					

[1] DC Énergie utilisable, conditions d'essai: 100% DOD, 0.2C charge & décharge à + 25 °C. L'Énergie utilisable du Système pourrai varier selon les marques d'oduleurs.
[2] Le derating de charge se produira entre -10 °C et +5 °C.
[3] La fonction de tour en parallèle ne sera disponible que pour 1 à 4 modules de batterie par tour. Le LVS 20.0 et le LVS 24.0 ne peuvent être utilisés qu'en tant que tour unique.
[4] Conditions d'application. Reportez-vous à la lettre de garantie limitée du BYD Battery-Box Premium.

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

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: 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 unidades para sistemas trifásicos a red IT: Numero minimo di batterie per sistemi trifase in rete	
		LVS Module	Tower (PDU)	LVS Module	Tower (PDU)
SMA	SI 4.4M	≥1	≥1	≥4	≥1
	SI 6.0H	≥2	≥1	≥6	≥2
	SI 8.0H	≥3	≥1	≥8	≥2
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.8; Inverter firmware ≥ V1.3.1.R. Please use below setting parameters for Sunny Island when working with LVS. Lower limit of deep discharge protection area prior shutdown <2%; Minimum width of deep discharge protection area: ≥8%; Area width for conserving battery state of charge: 3-5%.				
Victron	Multiplus 48/3000/35	≥1	≥1	≥1	≥1
	Multiplus 48/5000/70	≥1	≥1	≥1	≥1
	Multigrid 48/3000/35	≥1	≥1	≥1	≥1
	Quattro 48/5000/70-100/100	≥1	≥1	≥1	≥1
	Quattro 48/8000/110-100/100	≥1	≥1	≥1	≥1
	Quattro 48/10000/140- 100/100	≥1	≥1	≥1	≥1
	Quattro 48/15000/200- 100/100	≥1	≥1	≥1	≥1
	Easysolar 48/3000/35-50 MPPT150/70	≥1	≥1	≥1	≥1
	Easysolar 48/5000/70-100 MPPT150/100	≥1	≥1	≥1	≥1
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ V2.52				
Selectronic	SPMC480-AU/ SPMC481-AU	≥1	≥1	≥3	≥1
	SPMC482-AU	≥2	≥1	≥6	≥2
	Battery firmware: BMU ≥ V1.17, BMS ≥ V1.8; Selectronic SP Link firmware ≥ 14.20.x, SP Pro firmware ≥V12.x				
Studer	XTS1400-48	≥1	≥1	≥1	≥1
	XTM2600-48/ XTM4000-48	≥1	≥1	≥1	≥1
	XTH6000-48/ XTH8000-48	≥1	≥1	≥1	≥1
	VT-65/80	≥1	≥1	≥1	≥1
	VS-70/120	≥1	≥1	≥1	≥1
	Next 3	/	/	≥4	≥1
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware (expect Next 3) ≥ R664; inverter firmware (Next 3) ≥ 0.5.0.0				
GoodWe	ES/EM/BP/SBP Series	≥1	≥1	/	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11				
Sungrow	SH5K-30	≥1	≥1	/	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ SH5K-30_V01_V004				
SolarEdge*	SE 5K/ 7K/ 8K/ 10K-RWS	/	/	≥1	≥1
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ 4.11 *Multiple towers are not supported				
Solis	RHI-3K/ 3.6K-48ES-5G	≥1	≥1	/	/
	RHI-4.6K/ 5K/ 6K-48ES-5G	≥2	≥1	/	/
	RAI-3K-48ES-5G	≥1	≥1	/	/
	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	≥3	≥1	/	/
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW :v1.14-BN465, XW FW: 1.10				
RAION	J5	≥2	≥1	≥5	≥2
	M8	≥3	≥1	≥8	≥2
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware of J5: U1≥ 50.05; U2≥ 19.17, U2≥ 12.25. Inverter firmware of M8: U1≥ 46.09 or 72.05; U2≥ 12.25.				

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Update: 2023-03-01

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: 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 unidades para sistemas trifásicos a red IT: Numero minimo di batterie per sistemi trifase in rete	
		LVS Module	Tower (PDU)	LVS Module	Tower (PDU)
Deye	SUN-3.6K-SG01/03LP1-EU	≥2	≥1	/	/
	SUN-4.6K-SG03LP1-EU	≥2	≥1	/	/
	SUN-5K-SG01/03LP1-EU	≥2	≥1	/	/
	SUN-5.5K-SG03LP1-EU	≥2	≥1	/	/
	SUN-6K-SG03LP1-EU	≥3	≥1	/	/
	SUN-7.6K-SG01LP1-EU	≥3	≥1	/	/
	SUN-8K-SG01LP1-EU	≥3	≥1	/	/
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ C351.				
	SUN-6K-SG04LP3-EU	/	/	≥2	≥1
	SUN-8K-SG04LP3-EU	/	/	≥3	≥1
	SUN-10K-SG04LP3-EU	/	/	≥4	≥1
	SUN-12K-SG04LP3-EU	/	/	≥4	≥1
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ 1001-C015.				

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Update: 2023-03-01

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 con backup IT: Numero minimo di batterie per sistemi monofase in rete con backup		Minimum Configuration for Three Phase DE: Minimale Konfiguration für drei Phasen ES: Cantidad mínima de baterías para sistemas trifase a red con backup IT: Numero minimo di batterie per sistemi trifase in rete con backup	
		LVS Module	Tower (PDU)	LVS Module	Tower (PDU)
SMA	SI 4.4M	≥2	≥1	≥8	≥2
	SI 6.0H	≥4	≥1	≥12	≥3
	SI 8.0H	≥4	≥1	≥12	≥3
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.8; Inverter firmware ≥ V1.3.1.R. Please use below setting parameters for Sunny Island when working with LVS. Lower limit of deep discharge protection area prior shutdown <2%; Minimum width of deep discharge protection area: ≥8%; Area width for conserving battery state of charge: 3-5%.				
Victron	Multiplus 48/3000/35 / Multigrid 48/3000/35	≥2	≥1	≥5	≥2
	Multiplus 48/5000/70	≥3	≥1	≥7	≥2
	Quattro 48/5000/70-100/100	≥3	≥1	≥7	≥2
	Quattro 48/8000/110-100/100	≥4	≥1	≥12	≥3
	Quattro 48/10000/140- 100/100	≥5	≥2	≥15	≥4
	Quattro 48/15000/200- 100/100	≥7	≥2	≥18	≥5
	Easysolar 48/3000/35-50 MPPT150/70	≥2	≥1	≥5	≥2
	Easysolar 48/5000/70-100 MPPT150/100	≥3	≥1	≥7	≥2
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ V2.52				
Selectronic	SPMC480-AU	≥2	≥1	≥4	≥1
	SPMC481-AU	≥3	≥1	≥6	≥2
	SPMC482-AU	≥5	≥2	≥8	≥2
	Battery firmware: BMU ≥ V1.17, BMS ≥ V1.8; Selectronic SP Link firmware ≥ 14.20.x, SP Pro firmware ≥V12.x				
Studer	XTS1400-48	≥1	≥1	≥2	≥1
	XTM2600-48	≥2	≥1	≥5	≥2
	XTM4000-48	≥3	≥1	≥8	≥2
	XTH6000-48	≥4	≥1	≥11	≥3
	XTH8000-48	≥5	≥2	≥15	≥4
	VT-65	≥1	≥1	≥1	≥1
	VT-80/ VS -70	≥2	≥1	≥2	≥1
	VS-120	≥3	≥1	≥3	≥1
	Next 3	/	/	≥4	≥1
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware (expect Next 3) ≥ R664; inverter firmware (Next 3) ≥ 0.5.0.0				
GoodWe	ES/SBP Series	≥2	≥1	/	/
	GW3048-EM	≥1	≥1	/	/
	GW3648-EM/ GW 5048-EM	≥2	≥1	/	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11				
Sungrow	SH5K-30	≥1	≥1	/	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ SH5K-30_V01_V004				
Solis	RHI-3K / 3.6K-48ES-5G	≥1	≥1	/	/
	RHI-4.6K / 5K / 6K-48ES-5G	≥2	≥1	/	/
	RAI-3K-48ES-5G	≥1	≥1	/	/
	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	≥4	≥1	/	/
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW :v1.14-BN465, XW FW: 1.10				
RAION	J5	≥2	≥1	≥5	≥2
	M8	≥3	≥1	≥8	≥2
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware of J5: U1≥ 50.05; U2≥ 19.17, U2≥ 12.25. Inverter firmware of M8: U1≥ 46.09 or 72.05; U2≥ 12.25.				

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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 con backup IT: Numero minimo di batterie per sistemi monofase in rete con backup		Minimum Configuration for Three Phase DE: Minimale Konfiguration für drei Phasen ES: Cantidad mínima de baterías para sistemas trifase a red con backup IT: Numero minimo di batterie per sistemi trifase in rete con backup	
		LVS Module	Tower (PDU)	LVS Module	Tower (PDU)
Deye	SUN-3.6K-SG01/03LP1-EU	≥2	≥1	/	/
	SUN-4.6K-SG03LP1-EU	≥3	≥1	/	/
	SUN-5K-SG01/03LP1-EU	≥3	≥1	/	/
	SUN-5.5K-SG03LP1-EU	≥3	≥1	/	/
	SUN-6K-SG03LP1-EU	≥4	≥1	/	/
	SUN-7.6K-SG01LP1-EU	≥4	≥1	/	/
	SUN-8K-SG01LP1-EU	≥5	≥2	/	/
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ C351.				
	SUN-6K-SG04LP3-EU	/	/	≥3	≥1
	SUN-8K-SG04LP3-EU	/	/	≥4	≥1
	SUN-10K-SG04LP3-EU	/	/	≥5	≥2
	SUN-12K-SG04LP3-EU	/	/	≥6	≥2
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ 1001-C015.				

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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	
		LVS Module	Tower (PDU)	LVS Module	Tower (PDU)
SMA	SI 4.4M	≥2	≥1	≥8	≥2
	SI 6.0H	≥4	≥1	≥12	≥3
	SI 8.0H	≥4	≥1	≥12	≥3
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.8; Inverter firmware ≥ V1.3.1.R. Please use below setting parameters for Sunny Island when working with LVS. Lower limit of deep discharge protection area prior shutdown <2%; Minimum width of deep discharge protection area: ≥8%; Area width for conserving battery state of charge: 3-5%.				
Victron	Multiplus 48/3000/35	≥1	≥1	≥3	≥1
	Multiplus 48/5000/70	≥2	≥1	≥5	≥2
	Multigrid 48/3000/35	≥1	≥1	≥3	≥1
	Quattro 48/5000/70-100/100	≥2	≥1	≥5	≥2
	Quattro 48/8000/110-100/100	≥3	≥1	≥9	≥3
	Quattro 48/10000/140- 100/100	≥4	≥1	≥11	≥3
	Quattro 48/15000/200- 100/100	≥6	≥2	≥16	≥4
	Easysolar 48/3000/35-50 MPPT150/70	≥1	≥1	≥3	≥1
	Easysolar 48/5000/70-100 MPPT150/100	≥2	≥1	≥5	≥2
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ V2.52				
Selectronic	SPMC480-AU	≥2	≥1	≥4	≥1
	SPMC481-AU	≥2	≥1	≥5	≥2
	SPMC482-AU	≥3	≥1	≥8	≥2
	Battery firmware: BMU ≥ V1.17, BMS ≥ V1.8; Selectronic SP Link firmware ≥ 14.20.x, SP Pro firmware ≥V12.x				
Studer	XTS1400-48	≥1	≥1	≥2	≥1
	XTM2600-48	≥1	≥1	≥3	≥1
	XTM4000-48	≥2	≥1	≥4	≥1
	XTH6000-48	≥2	≥1	≥6	≥2
	XTH8000-48	≥3	≥1	≥8	≥2
	VT-65	≥1	≥1	≥1	≥1
	VT-80 / VS-70	≥2	≥1	≥2	≥1
	VS-120	≥3	≥1	≥3	≥1
	Next 3	/	/	≥4	≥1
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware (expect Next 3) ≥ R664; inverter firmware (Next 3) ≥ 0.5.0.0				
GoodWe	ES Series	/	/	/	/
	GW3048-EM	/	/	/	/
	GW3648-EM	/	/	/	/
	GW5048-EM	/	/	/	/
	SBP Series	/	/	/	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11				
Sungrow	SH5K-30	≥1	≥1	/	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ SH5K-30_V01_V004				
Schneider	Conext XW Pro	≥4	≥1	/	/
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW :v1.14-BN465, XW FW: 1.10				
RAION	J5	≥3	≥1	≥7	≥2
	M8	≥5	≥2	≥11	≥3
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware of J5: U1≥ 50.05; U2≥ 19.17, U2≥ 12.25. Inverter firmware of M8: U1≥ 46.09 or 72.05; U2≥ 12.25.				

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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	
		LVS Module	Tower (PDU)	LVS Module	Tower (PDU)
Deye	SUN-3.6K-SG01/03LP1-EU	≥2	≥1	/	/
	SUN-4.6K-SG03LP1-EU	≥2	≥1	/	/
	SUN-5K-SG01/03LP1-EU	≥2	≥1	/	/
	SUN-5.5K-SG03LP1-EU	≥2	≥1	/	/
	SUN-6K-SG03LP1-EU	≥3	≥1	/	/
	SUN-7.6K-SG01LP1-EU	≥3	≥1	/	/
	SUN-8K-SG01LP1-EU	≥3	≥1	/	/
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ C351.				
	SUN-6K-SG04LP3-EU	/	/	≥2	≥1
	SUN-8K-SG04LP3-EU	/	/	≥3	≥1
	SUN-10K-SG04LP3-EU	/	/	≥4	≥1
	SUN-12K-SG04LP3-EU	/	/	≥4	≥1
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ 1001-C015.				

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Version: V1.9
Update: 2023-03-01

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 ammisibile

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 con pico IT: Numero minimo di batterie per sistemi monofase in isola con pico		**Minimum Configuration for Three Phase** 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	
		LVS Module (remarks for inrush use)	Tower (PDU)	LVS Module (remarks for inrush use)	Tower (PDU)
SMA	SI 4.4M	≥2 (5.5kw 3 seconds)	≥1	≥8 (3*5.5kw 3 seconds)	≥2
	SI 6.0H/ 8.0H	≥4 (11kw 3 seconds)	≥1	≥12 (3*11kw 3 seconds)	≥3
	Battery firmware: BMU ≥ V1.19, BMS ≥ V1.8; Inverter firmware ≥ V1.3.1.R. Please use below setting parameters for Sunny Island when working with LVS. Lower limit of deep discharge protection area prior shutdown <2%; Minimum width of deep discharge protection area: ≥8%; Area width for conserving battery state of charge: 3-5%.				
Victron	Multiplus 48/3000/35	≥2 (6kw 5 seconds)	≥1	≥5 (3*6kw 5 seconds)	≥2
	Multiplus 48/5000/70	≥3 (10kw 5 seconds)	≥1	≥7 (3*10kw 5 seconds)	≥2
	Multigrid 48/3000/35	≥2 (6kw 5 seconds)	≥1	≥5 (3*6kw 5 seconds)	≥2
	Quattro 48/5000/70-100/100	≥3 (10kw 5 seconds)	≥1	≥7 (3*10kw 5 seconds)	≥2
	Quattro 48/8000/110-100/100	≥4 (16kw 5 seconds)	≥1	≥12 (3*16kw 5 seconds)	≥3
	Quattro 48/10000/140- 100/100	≥5 (20kw 5 seconds)	≥2	≥15 (3*20kw 5 seconds)	≥4
	Quattro 48/15000/200- 100/100	≥7 (25kw 5 seconds)	≥2	≥18 (3*25kw 5 seconds)	≥6
	Easysolar 48/3000/35-50 MPPT150/70	≥2 (6kw 5 seconds)	≥1	≥5 (3*6kw 5 seconds)	≥2
	Easysolar 48/5000/70-100 MPPT150/100	≥3 (10kw 5 seconds)	≥1	≥7 (3*10kw 5 seconds)	≥2
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ V2.52				
Selectronic	SPMC480-AU	≥2 (6kw 60 seconds)	≥1	≥6 (3*6kw 60 seconds)	≥2
	SPMC481-AU	≥3 (12kw 30 seconds)	≥1	≥9 (3*12kw 30 seconds)	≥3
	SPMC482-AU	≥5 (18kw 30 seconds)	≥2	≥13 (3*18kw 30 seconds)	≥4
	Battery firmware: BMU ≥ V1.17, BMS ≥ V1.8; Selectronic SP Link firmware ≥ 14.20.x, SP Pro firmware ≥V12.x				
Studer	XTS1400-48	≥1 (2.8kw 5 seconds)	≥1	≥2 (3*2.8kw 5 seconds)	≥1
	XTM2600-48	≥2 (6.5kw 5 seconds)	≥1	≥5 (3*6.5kw 5 seconds)	≥2
	XTM4000-48	≥3 (10.5kw 5 seconds)	≥1	≥8 (3*10.5kw 5 seconds)	≥2
	XTH6000-48	≥4 (15 kw 5 seconds)	≥1	≥11 (3*15 kw 5 seconds)	≥3
	XTH8000-48	≥5 (21 kw 5 seconds)	≥2	≥15 (3*21 kw 5 seconds)	≥4
	VT-65	≥1	≥1	≥4	≥1
	VT-80 / VS-70	≥2	≥1	≥4	≥1
	VS-120	≥3	≥1	≥8	≥2
	Next 3	/	/	≥4	≥1
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware (expect Next 3) ≥ R664; inverter firmware (Next 3) ≥ 0.5.0.0				
GoodWe	ES Series	≥2	≥1	/	/
	GW3048-EM	≥1	≥1	/	/
	GW3648/5048-EM	≥2	≥1	/	/
	SBP Series	≥2	≥1	/	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ ARM V11				
Sungrow	SH5K-30	≥1	≥1	/	/
	Battery firmware: BMU ≥ V1.16, BMS ≥ V1.8; Inverter firmware ≥ SH5K-30_V01_V004				
Schneider	Conext XW Pro	≥4	≥1	/	/
	Battery firmware: BMU ≥ V1.20, BMS ≥ V1.10; Inverter firmware: Gateway FW :v1.14-BN465, XW FW: 1.10				
RAION	J5	≥3	≥1	≥7	≥2
	M8	≥5	≥2	≥11	≥3
	Battery firmware: BMU ≥ V1.24, BMS ≥ V1.14; Inverter firmware of J5: U1≥ 50.05; U2≥ 19.17, U2≥ 12.25. Inverter firmware of M8: U1≥ 46.09 or 72.05; U2≥ 12.25.				

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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 ammisibile

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 con pico IT: Numero minimo di batterie per sistemi monofase in isola con pico		**Minimum Configuration for Three Phase** 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	
		LVS Module (remarks for inrush use)	Tower (PDU)	LVS Module (remarks for inrush use)	Tower (PDU)
Deye	SUN-3.6K-SG01/03LP1-EU	≥2	≥1	/	/
	SUN-4.6K-SG03LP1-EU	≥3	≥1	/	/
	SUN-5K-SG01/03LP1-EU	≥3	≥1	/	/
	SUN-5.5K-SG03LP1-EU	≥3	≥1	/	/
	SUN-6K-SG03LP1-EU	≥4	≥1	/	/
	SUN-7.6K-SG01LP1-EU	≥4	≥1	/	/
	SUN-8K-SG01LP1-EU	≥5	≥2	/	/
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ C351.				
	SUN-6K-SG04LP3-EU	/	/	≥3	≥1
	SUN-8K-SG04LP3-EU	/	/	≥4	≥1
	SUN-10K-SG04LP3-EU	/	/	≥5	≥2
	SUN-12K-SG04LP3-EU	/	/	≥6	≥2
	Battery firmware: BMU ≥ V1.22, BMS ≥ V1.13; Inverter firmware ≥ 1001-C015.				

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 Ammisibile per applicazioni in isola (Off-Grid). Consulta i valori correspondent dell'inverter usato.

- **The Information in this document is subject to change without notice. Every effort has been made to make this document complete, accurate, and up-to-date. However, BYD may need to make some improvements under certain circumstances without advance notice. Please take the latest version of this document at our websites into account.**

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- **In a single Tower system with 5 or 6 modules, the maximum load shall be no more than 12.8 kW.**

  [DE] In einem System mit nur einem Turm mit 5 oder 6 Modulen darf die maximale Last nicht mehr als 12,8 kW betragen.

  [ES] En un sistema de torre única con 5 o 6 módulos, la carga máxima no debe superar los 12,8 kW.

  [IT] In un singolo sistema torre con 5 o 6 moduli, il carico massimo non deve essere superiore a 12,8 kW.

- **Max. 64 modules can be connected in parallel. In parallel connection, each Tower shall be no more than 4 modules.**

  [DE] max. 64 LVS Module in Parallelschaltung. In Parallelschaltung ist die maximale Modulanzahl je Turm 4 Module.

  [ES] Max. 64 módulos en conexión en paralelo. En conexión en paralelo, el número máximo de módulos por torre es de 4 módulos.

  [IT] Max. 64 moduli in connessione parallela. In connessione parallela, il numero massimo di moduli per torre è di 4 moduli.

- **ON-Grid with full backup power equals to OFF-Grid inrush power use. (section 4).**

  [DE] ON-Grid mit voller Notstromversorgung entspricht den Einschaltströmen für OFF-Grid Anwendungen. (Sektion 4)

  [ES] ON-Grid con energía de respaldo completa equivale al uso de sistemas aislados para soportar picos de corriente máximos. (Sección 4)

  [IT] ON-Grid con piena potenza di backup è uguale all'uso in isola per potenza di pico ammisibile. (Sezione 4)

- **Configurations marked in grey are not released yet and are not allowed to be installed yet. Those configurations are planned and might be subject to change.**

  [DE] Grau markierte Konfigurationen sind noch nicht freigegeben und dürfen noch nicht installiert werden. Diese Konfigurationen sind geplant und können sich ändern.

  [ES] Las configuraciones marcadas en gris aún no se publican y aún no se permite su instalación. Estas configuraciones están planificadas y pueden estar sujetas a cambios.

  [IT] Le configurazioni contrassegnate in grigio non sono ancora state rilasciate e non possono ancora essere installate. Tali configurazioni sono pianificate e potrebbero essere soggette a modifiche.

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