

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



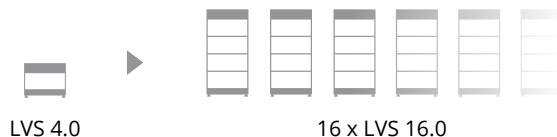
BATTERY-BOX PREMIUM LVS

- 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)

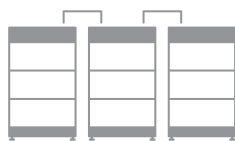
Connectez-vous jusqu'à 16 Battery-Box LVS 16.0 en parallèle pour une taille maximale de 256 kWh. Capacité d'échelle en ajoutant plus tard des modules LVS ou des tours parallèles de 1 à 4.



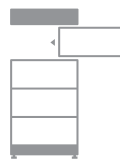
FLEXIBLE, EFFICACE, SIMPLIFIÉ



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



BYD Company Limited
www.bydbatterybox.com
Global Sales: batteryboxgrp@byd.com
Global Service: bboxservice@byd.com

Battery-Box EU Service Partner
EFT-Systems GmbH
www.eft-systems.de
info@eft-systems.de







Battery-Box AU Service Partner
Alps Power Pty Ltd
www.alppower.com.au
service@alppower.com.au

Battery-Box US Service
www.bydbatterybox.com
bboxusservice@byd.com

V2.2 FR



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 pourra varier selon les marques d'onduleurs.

[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)		Minimum Configuration for Single Phase		Minimum Configuration for Three Phase	
		LVS Module	Tower (PDU)	LVS Module	Tower (PDU)
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	≥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
	Multigrad 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 (except 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.				



BYD Company Limited
www.bydbatterybox.com
Global Sales: batteryboxgrp@byd.com
Global Service: bboxservice@byd.com
DEinquirygrp@byd.com

Battery-Box EU Service Partner
EFT-Systems GmbH
www.eft-systems.de
info@eft-systems.de

Battery-Box AU Service Partner
Alps Power Pty Ltd
www.alpspower.com.au
service@alpspower.com.au

BYD US Service
bboxuservice@byd.com

Version: V1.9
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)		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		
		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.					



BYD Company Limited
www.bydbatterybox.com
 Global Sales: batteryboxgrp@byd.com
 Global Service: bboxservice@byd.com
 DEinquirygrp@byd.com

Battery-Box EU Service Partner
 EFT-Systems GmbH
www.eft-systems.de
info@eft-systems.de

Battery-Box AU Service Partner
 Alps Power Pty Ltd
www.alppower.com.au
service@alppower.com.au

BYD US Service
bboxusservice@byd.com

Version: V1.9
 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)		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 con backup IT: Numero minimo di batterie per sistemi monofase in rete con backup		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 / Multigrad 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/ V5 -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.				



BYD Company Limited
www.bydbatterybox.com
Global Sales: batteryboxgrp@byd.com
Global Service: bboxservice@byd.com
DEinquirygrp@byd.com

Battery-Box EU Service Partner
EFT-Systems GmbH
www.eft-systems.de
info@eft-systems.de

Battery-Box AU Service Partner
Alps Power Pty Ltd
www.alpspower.com.au
service@alpspower.com.au

BYD US Service
bboxusservice@byd.com

Version: V1.9
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)	
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.					



BYD Company Limited
www.bydbatterybox.com
Global Sales: batteryboxgrp@byd.com
Global Service: bboxservice@byd.com
DEinquirygrp@byd.com

Battery-Box EU Service Partner
EFT-Systems GmbH
www.eft-systems.de
info@eft-systems.de

Battery-Box AU Service Partner
Alps Power Pty Ltd
www.alpspower.com.au
service@alpspower.com.au

BYD US Service
bboxusservice@byd.com

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



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	
		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
	Multigrad 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.				



BYD Company Limited
www.bydbatterybox.com
Global Sales: batteryboxgrp@byd.com
Global Service: bboxservice@byd.com
DEinquirygrp@byd.com

Battery-Box EU Service Partner
EFT-Systems GmbH
www.eft-systems.de
info@eft-systems.de

Battery-Box AU Service Partner
Alps Power Pty Ltd
www.alpspower.com.au
service@alpspower.com.au

BYD US Service
bboxusservice@byd.com

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



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		
		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.						



BYD Company Limited
www.bydbatterybox.com
 Global Sales: batteryboxgrp@byd.com
 Global Service: bboxservice@byd.com
 DEinquirygrp@byd.com

Battery-Box EU Service Partner
 EFT-Systems GmbH
www.eft-systems.de
info@eft-systems.de

Battery-Box AU Service Partner
 Alps Power Pty Ltd
www.alpspower.com.au
service@alpspower.com.au

BYD US Service
bboxusservice@byd.com

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 ammissibile

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 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	
		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
	Multigrad 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.					



BYD Company Limited
www.bydbatterybox.com
Global Sales: batteryboxgrp@byd.com
Global Service: bboxservice@byd.com
DEinquirygrp@byd.com

Battery-Box EU Service Partner
EFT-Systems GmbH
www.eft-systems.de
info@eft-systems.de

Battery-Box AU Service Partner
Alps Power Pty Ltd
www.alppower.com.au
service@alppower.com.au

BYD US Service
bboxuservice@byd.com

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 ammissibile

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 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		
		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.					



BYD Company Limited
www.bydbatterybox.com
 Global Sales: batteryboxgrp@byd.com
 Global Service: bboxservice@byd.com
 DEinquirygrp@byd.com

Battery-Box EU Service Partner
 EFT-Systems GmbH
www.eft-systems.de
info@eft-systems.de

Battery-Box AU Service Partner
 Alps Power Pty Ltd
www.alpspower.com.au
service@alpspower.com.au

BYD US Service
bboxuservice@byd.com

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



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 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.**

[DE] Die Informationen in diesem Dokument können ohne vorherige Ankündigung geändert werden. Bitte berücksichtigen Sie die neueste Version dieses Dokuments auf unseren Websites.

[ES] La información de este documento está sujeta a cambios sin previo aviso. Se ha hecho todo lo posible para que este documento sea completo, preciso y actualizado. Sin embargo, BYD puede necesitar realizar algunas mejoras bajo ciertas circunstancias sin previo aviso. Tenga en cuenta la última versión de este documento en nuestros sitios web.

[IT] Le informazioni contenute in questo documento sono soggette a modifiche senza preavviso. È stato fatto ogni sforzo per rendere questo documento completo, accurato e aggiornato. Tuttavia, BYD potrebbe dover apportare alcuni miglioramenti in determinate circostanze senza preavviso. Si prega di prendere in considerazione l'ultima versione di questo documento sui nostri siti web.

- **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 ammissibile. (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.



Battery module LVS 4 kWh

BYD Company Limited

www.bydbatterybox.com

Global Sales: batteryboxgrp@byd.com

Global Service: bboxservice@byd.com

DEinquirygrp@byd.com

Battery-Box EU Service Partner

EFT-Systems GmbH

www.eft-systems.de

info@eft-systems.de

Battery-Box AU Service Partner

Alps Power Pty Ltd

www.alpspower.com.au

service@alpspower.com.au

BYD US Service

bboxuservice@byd.com

Version: V1.9

Update: 2023-03-01

