

BATTERY-BOX PREMIUM HVS / HVM

- Capable of High-Powered Emergency-Backup and Off-Grid Functionality
- Highest Efficiency Thanks to a Real High-Voltage Series Connection
- The Patented Modular Plug Design Requires no Internal Wiring and Allows for Maximum Flexibility and Ease of Use
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Life Cycle, and Power
- Compatible with Leading 1 and 3 Phase High Voltage Battery Inverters
- Two Distinct Modules to Cover the Complete Range of System Sizes
- Highest Safety Standards like VDE 2510-50



BATTERY-BOX PREMIUM HVS

One Battery-Box Premium HVS is composed of 2 to 5 HVS battery modules that are connected in series to achieve a usable capacity of 5.1 to 12.8 kWh.

Additionally, direct parallel connection of up to 3 identical Battery-Box Premium HVS allows a maximum capacity of 38.4 kWh.

Ability to scale by adding HVS modules or parallel HVS stacks later.

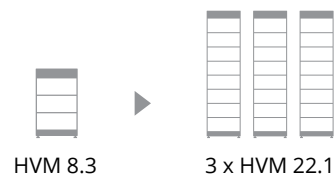


BATTERY-BOX PREMIUM HVM

One Battery-Box Premium HVM is composed of 3 to 8 HVM battery modules that are connected in series to achieve a usable capacity of 8.3 to 22.1 kWh.

Additionally, direct parallel connection of up to 3 identical Battery-Box Premium HVM allows a maximum capacity of 66.2 kWh.

Ability to scale by adding HVM modules or parallel HVM stacks later.



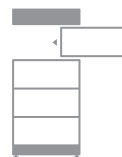
FLEXIBLE, EFFICIENT, SIMPLE



Internal Plug Connection
No Additional Wiring Required



5.1 - 66.2 kWh
Tailored Sizing for Each Application



Extend Anytime
Easily Adapts to New Requirements



High Power
Power for Every Application

TECHNICAL PARAMETERS PREMIUM HVS / HVM

				
	HVS 5.1	HVS 7.7	HVS 10.2	HVS 12.8
Battery Module	HVS (2.56 kWh, 102.4 V, 38 kg)			
Number of Modules	2	3	4	5
Usable Energy ^[1]	5.12 kWh	7.68 kWh	10.24 kWh	12.8 kWh
Max Output Current ^[2]	25 A	25 A	25 A	25 A
Peak Output Current ^[2]	50 A, 3 s	50 A, 3 s	50 A, 3 s	50 A, 3 s
Nominal Voltage	204.8 V	307.2 V	409.6 V	512 V
Operating Voltage	160~240 V	240~360 V	320~480 V	400~600 V
Dimensions (H / W / D)	762 x 585 x 298 mm	995 x 585 x 298 mm	1228 x 585 x 298 mm	1461 x 585 x 298 mm
Weight	91 kg	129 kg	167 kg	205 kg

						
	HVM 8.3	HVM 11.0	HVM 13.8	HVM 16.6	HVM 19.3	HVM 22.1
Battery Module ^[3]	HVM (2.76 kWh, 51.2 V, 35 / 38 kg)					
Number of Modules	3	4	5	6	7	8
Usable Energy ^[1]	8.28 kWh	11.04 kWh	13.80 kWh	16.56 kWh	19.32 kWh	22.08 kWh
Max Output Current ^[2]	50 A	50 A	50 A	50 A	50 A	50 A
Peak Output Current ^[2]	75 A, 3 s	75 A, 3 s	75 A, 3 s	75 A, 3 s	75 A, 3 s	75 A, 3 s
Nominal Voltage	153.6 V	204.8 V	256 V	307.2 V	358.4 V	409.6 V
Operating Voltage	120~177 V	160~236 V	200~295 V	240~354 V	280~413 V	320~472 V
Dimensions (H / W / D)	995 x 585 x 298 mm	1228 x 585 x 298 mm	1461 x 585 x 298 mm	1694 x 585 x 298 mm	1927 x 585 x 298 mm	2160 x 585 x 298 mm
Weight ^[4]	119~129 kg	153~167 kg	188~205 kg	222~243 kg	257~281 kg	291~319 kg

HVS & HVM

Operating Temperature	-10 °C to +50 °C
Battery Cell Technology	Lithium Iron Phosphate (cobalt-free)
Communication	CAN / RS485
Enclosure Protection Rating	IP55
Round-trip Efficiency	≥ 96%
Certification	VDE2510-50 / IEC62619 / CEC / CE / UN38.3
Applications	ON Grid / ON Grid + Backup / OFF Grid
Warranty ^[5]	10 Years
Compatible Inverters	Refer to BYD Battery-Box Premium HVS / HVM Compatible Inverter List

[1] DC Usable Energy, Test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C. System Usable Energy may vary with different inverter brands.

[2] Power derating will occur between -10 °C and +5 °C.

[3] HVM module has two versions with two types of cells applied separately. Both versions share the same performance, only weights differ.

[4] Two versions of HVM module are adaptable with each other and can be stacked in one tower. The weights of the tower may vary with mixed HVM modules.

[5] Conditions apply. Refer to BYD Battery-Box Premium Limited Warranty Letter.



BYD BATTERY-BOX PREMIUM HVS&HVM COMPATIBLE INVERTER LIST – V2.10

[DE] BYD Battery-Box Premium HVS / HVM kompatible Wechselrichterliste

[ES] Lista de Inversores Compatibles con Battery-Box Premium HVS/HVM

[IT] Lista di Configurazione Minima e degli Inverter Compatibili con BYD Battery-Box Premium HVS/HVM



Inverter [DE] Wechselrichter [ES] Inversores [IT] Inverter		Module Quantity [DE] Modulanzahl [ES] Cantidad de módulo [IT] Quantità moduli		Minimum Firmware Version					
				Single Tower [DE] Einzelturm / [ES] torre única / [IT] torre singola			Parallel Connection [DE] Parallelschaltung / [ES] conexión paralela / [IT] connessione parallela		
							Inverter	Battery-Box	
		HVS	HVM	BMU	BMS	BMU		BMS	
Fronius	Symo Hybrid	-	3-8	1.16.6-1	3.13	3.19	1.16.7-1	3.14	3.20
	Symo GEN24 Plus	2-4	4-8	1.9.7-0	3.13	3.19	1.10.5-0	3.14	3.20
	Primo GEN24 Plus	2-3	4-7	1.11.6-0	3.15	3.21	same as single tower		
	Note: Parallel connection is not possible for Fronius inverters in the configuration: 3 x HVM 22.1 [DE] Parallelschaltung ist mit Fronius Wechselrichtern nicht möglich für die Konfiguration: 3 x HVM 22.1 [ES] La conexión en paralelo no es posible para los inversores Fronius en la configuración: 3 x HVM 22.1 [IT] Il collegamento in parallelo non è possibile per gli inverter Fronius nella configurazione: 3 x HVM 22.1								
GoodWe	ET/BT	2-5	4-8	ARM 11	3.13	3.19	same as single tower		
	EH/BH	2-4	3-8						
	EHB	2-4	3-8		3.18	3.26			
Viessmann	A3	2-5	4-8	ARM 11	3.13	3.19	same as single tower		
KOSTAL	Plenticore Plus 3.0	2-5	4	01.42	3.13	3.19	same as single tower		
	Plenticore Plus 4.2/5.5/7.0/8.5/10.0	2-5	4-8						
	Plenticore BI 5.5-13/ 5.5-26	2-5	5-8						
	Plenticore BI 10.0-26	3-5	5-8	PU-APP 3.7.0, KSEM 1.2.0.	3.13	3.19			
	Piko MP Plus 1.5-1/2.0-1/ 2.5-1	2-3	3-4						
	Piko MP Plus 3.0-1, 3.0-2, 3.5-1, 3.5-2, 4.6-2, 5.0-2	2-5	3-8						
	PIKO 6.0 BA / 8.0 BA / 10 BA	2-4	4-8	2.32	3.16	3.24			
SMA	Sunny Boy Storage 2.5	2-4	-	3.11.06R	3.15	3.21	same as single tower		
	Sunny Boy Storage 3.7/5.0/6.0	2-4	3-8	For HVS: 3.11.03R For HVM: 3.11.10R	3.13	3.19	-		
	STP 5.0-10.0 SE	2-5	4-8	3.00.02.R	3.16	3.24	same as single tower		
	Note: For SBS 3.7 / 5.0 / 6.0 no parallel connection - check inverter manual how to connect up to three batteries [DE] Für SBS 3.7 / 5.0 / 6.0 keine Parallelschaltung - siehe Wechselrichterhandbuch, wie man bis zu drei Batterien anschließt [ES] Para SBS 3.7 / 5.0 / 6.0 sin conexión en paralelo disponible: consulte el manual del inversor sobre cómo conectar hasta tres baterías [IT] Per SBS 3.7 / 5.0 / 6.0 nessuna connessione parallela è disponibile - controllare il manuale dell'inverter come collegare fino a tre batterie								
Sungrow	SH5.0/6.0/8.0/10RT	2-5	4-8	ARM, V11_V01_B MDSP, V11_V01_B	3.13	3.19	same as single tower		
	SH3.0/3.6/4.0/5.0/6.0RS	2-4	3-8	ARM, 01011.02.16 MDSP, 03011.02.15	3.16	3.24			
KACO	Blueplanet hybrid 6.0- 10.0 TL3	2-4	3-8	5.8.6.3.7	3.13	3.19	same as single tower		
Ingeteam	ISS 1Play 3TL M / 6TL M	2-4	3-8	ABH1007_F	3.15	3.22	same as single tower		
	Note: Only compatible with BCU produced since 1st October, 2020. [DE] Nur kompatibel mit BCU, die seit dem 1. Oktober 2020 produziert wurden [ES] Solo compatible con BCU fabricados desde el 1 de octubre de 2020. [IT] Compatibile solo con BCU prodotte dal 1 ottobre 2020.								
Solis	RHI-3P(5-10)K-HVES-5G	2-5	4-8	V090037	3.16	3.22	V090037	3.16	3.24



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 BATTERY BOX

BYD BATTERY-BOX PREMIUM HVS&HVM COMPATIBLE INVERTER LIST – V2.10

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				Single Tower [DE] Einzelturm / [ES] torre única / [IT] torre singola			Parallel Connection [DE] Parallelschaltung / [ES] conexión paralela / [IT] connessione parallela	
				Inverter		Battery-Box		Inverter
BMU	BMS	BMU	BMS					
GE	GEH5.0/8.6/10-1U-10	2-4	3-8	000019	3.17	3.24	same as single tower	
Canadian Solar	CSI-TE Series	2-5	4-8	ARM 11	3.18	3.26	same as single tower	
	CSI-HE Series	2-4	3-8					
	CSI-BHE Series	2-4	3-8					
Deye	SUN-(5-20)K-SG01HP3-EU-AM2	2-5	4-8	2001-C016	3.19	3.26	Same as single tower	

Note:

- Always install the latest firmware on the Battery-Box!
- Requirements for Parallel Connection: Maximum three battery systems could be connected in parallel; HVS system CANNOT be connected in parallel with HVM system; Every tower connected in parallel requires the same module quantity;

[DE] Bemerkung:

- Installieren Sie immer die neueste Firmware auf der Battery-Box!
- Anforderungen an Parallelschaltung: Es dürfen maximal drei Batteriesysteme parallel geschaltet werden; Ein HVS-System kann NICHT mit einem HVM-System kombiniert werden; Jeder parallel geschaltete Turm benötigt die gleiche Modulanzahl

[ES] Nota:

- ¡Instale siempre el firmware más reciente en la Battery-Box!
- Requisitos para la conexión en paralelo: se pueden conectar en paralelo un máximo de tres sistemas de baterías; El sistema HVS NO PUEDE conectarse en paralelo con el sistema HVM; Cada torre conectada en paralelo requiere la misma cantidad de módulos por torre;

[IT] Nota:

- Installare sempre l'ultimo firmware sul Battery-Box!
- Requisiti per il collegamento in parallelo: è possibile collegare in parallelo un massimo di tre sistemi di batterie; Il sistema HVS NON può essere collegato in parallelo al sistema HVM; Ogni torre collegata in parallelo richiede la stessa quantità di moduli per torri;

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[ES] La información de este documento está sujeta a cambios 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. Si prega di prendere in considerazione l'ultima versione di questo documento sui nostri siti web.



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