

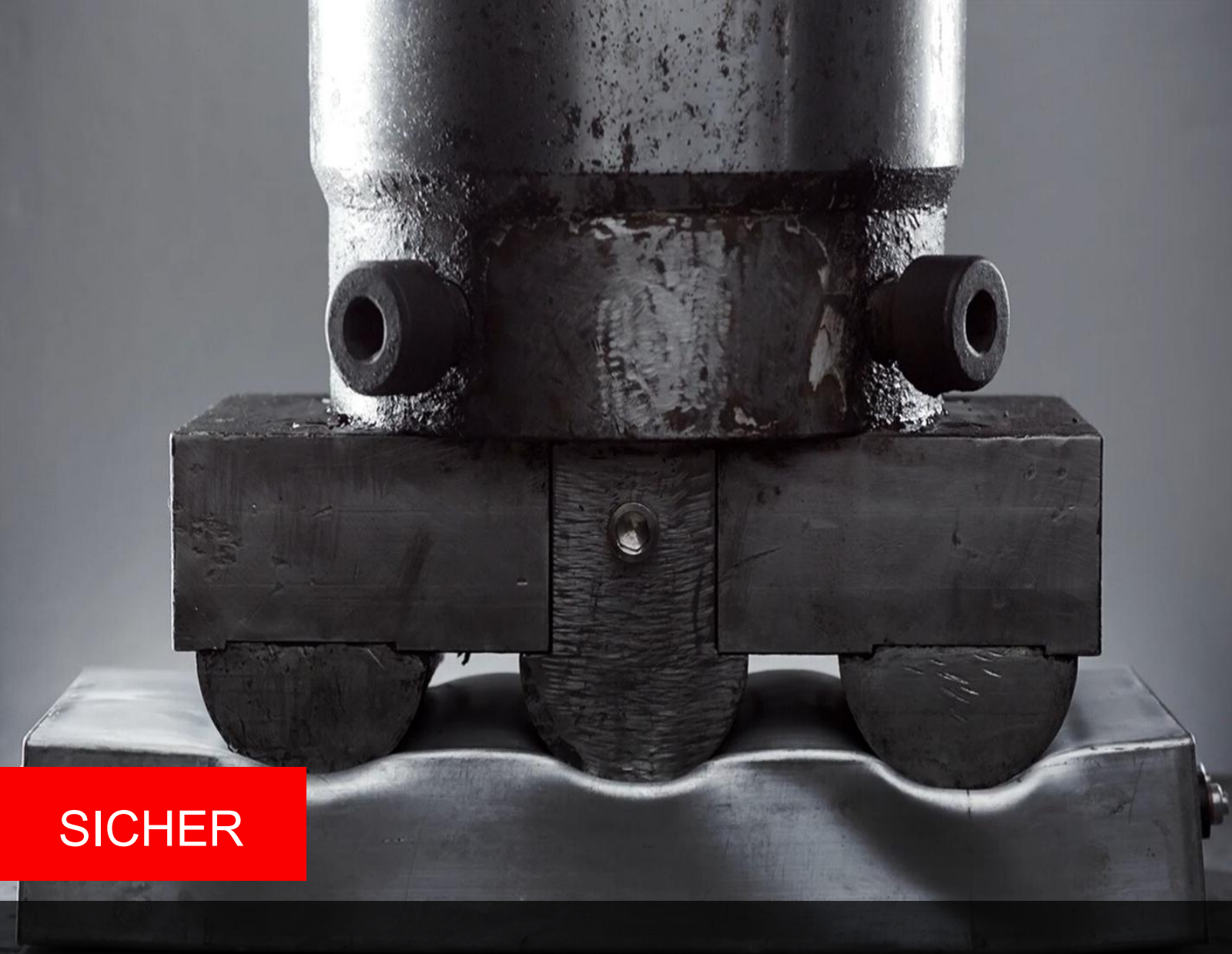
Energy Storage

BYD BATTERY-BOX BEYOND 10 YEARS

EFT-SYSTEMS GMBH

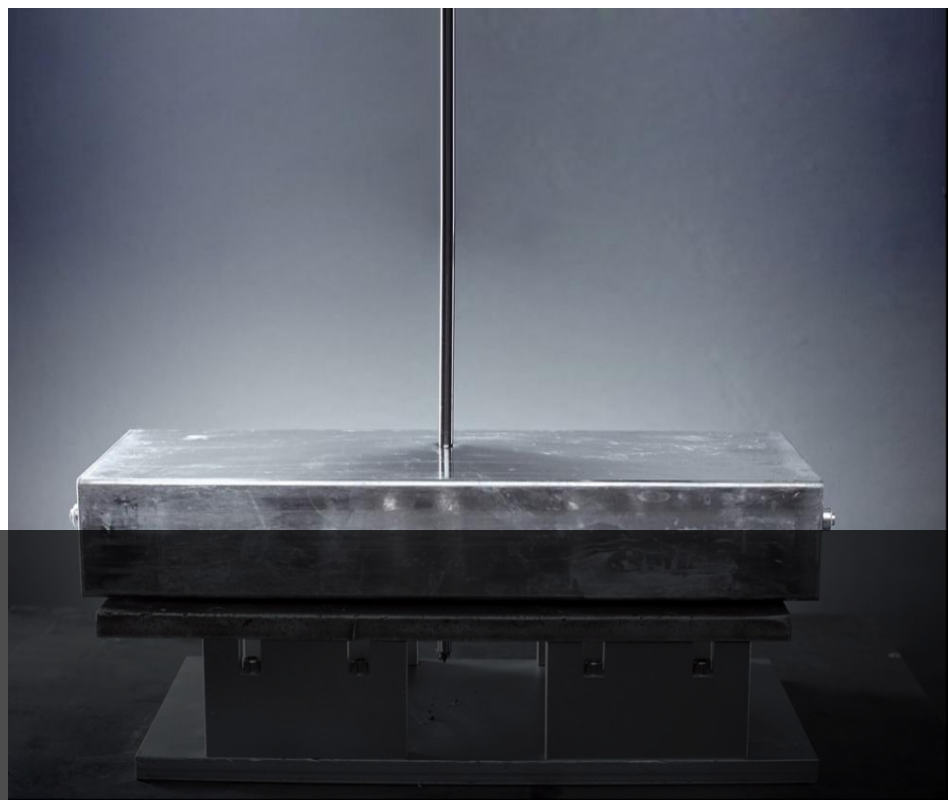
IT'S THE INSIDE THAT MATTERS





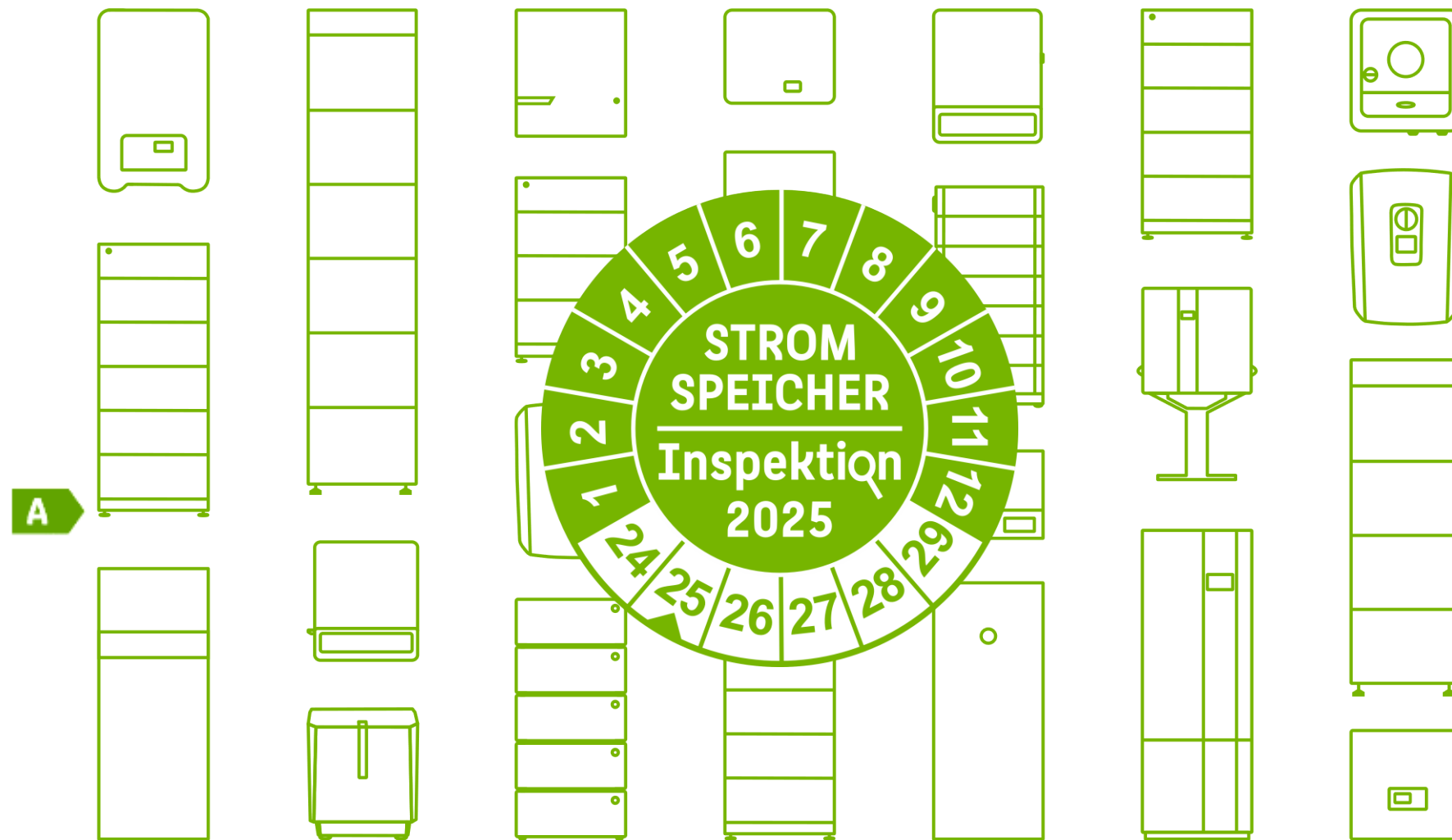
SICHER

17+ Jahre | 75+ GWh | 1.500.000+ Systeme

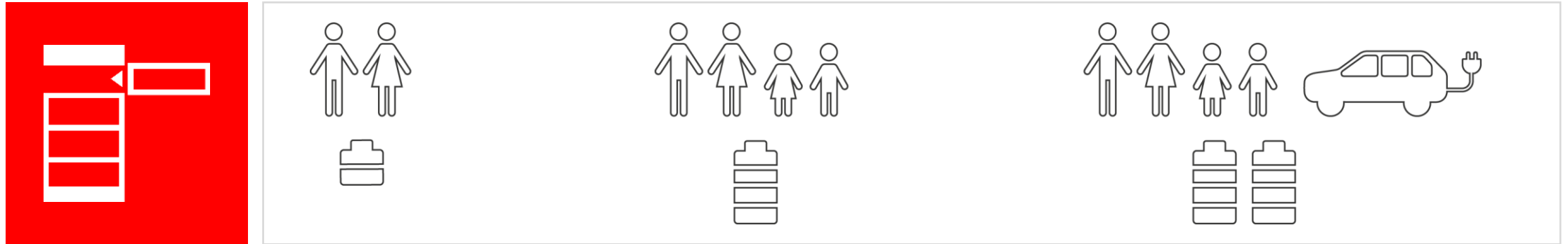




HÖCHSTE EFFIZIENZ – SEIT 8 JAHREN



FLEXIBLE KAPAZITÄT, JEDERZEIT ERWEITERN

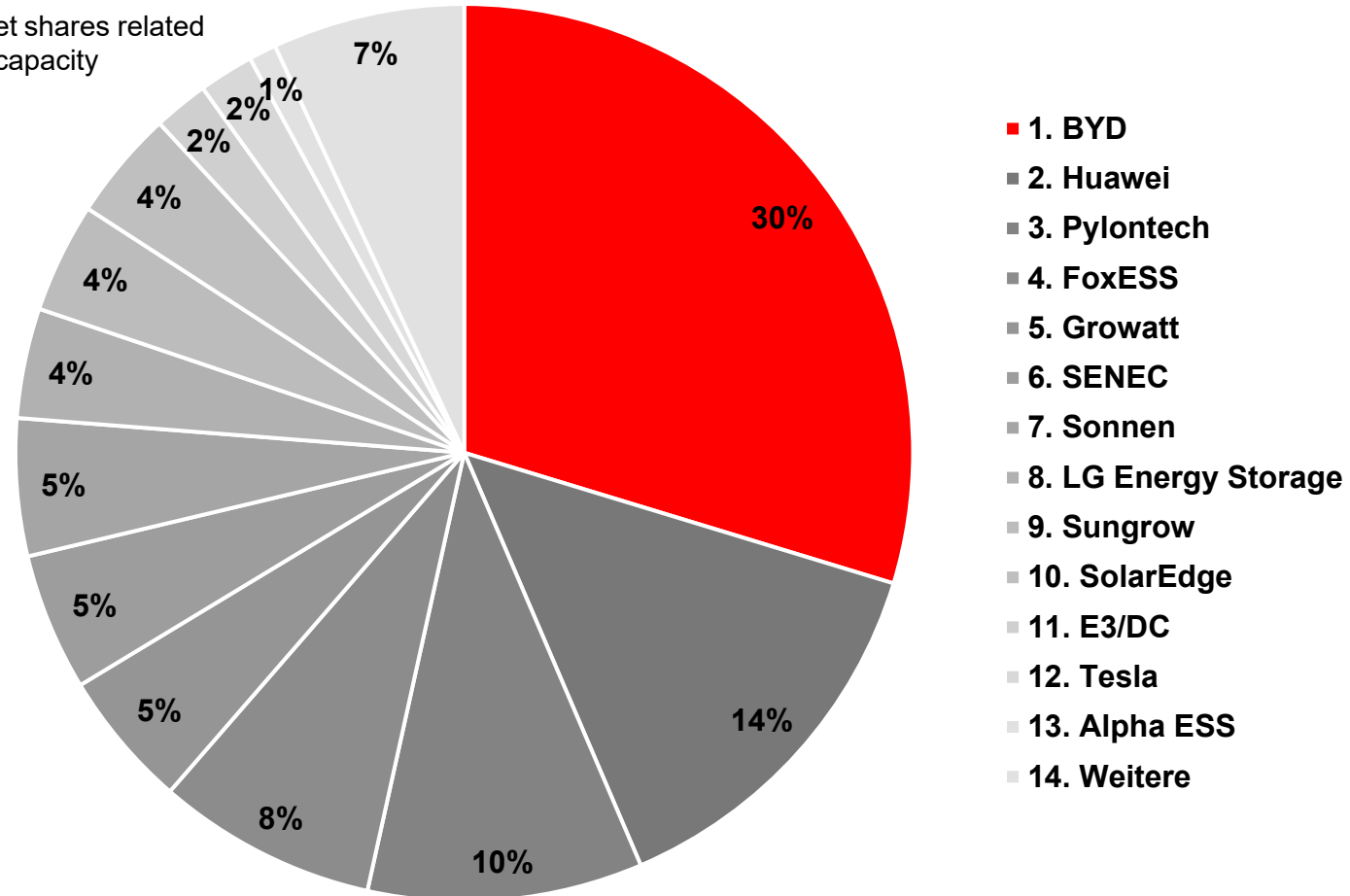


MARKTANTEILE

Storage suppliers market shares related to the installed storage capacity

EUPD Research 2024

H1 2024 | EUROPE



BATTERY-BOX – NEW GENERATION

BATTERY-BOX GENERATION 4

+ externer Wechselrichter



HVB



HVS+ / HVM+



Power-Box SH / TH

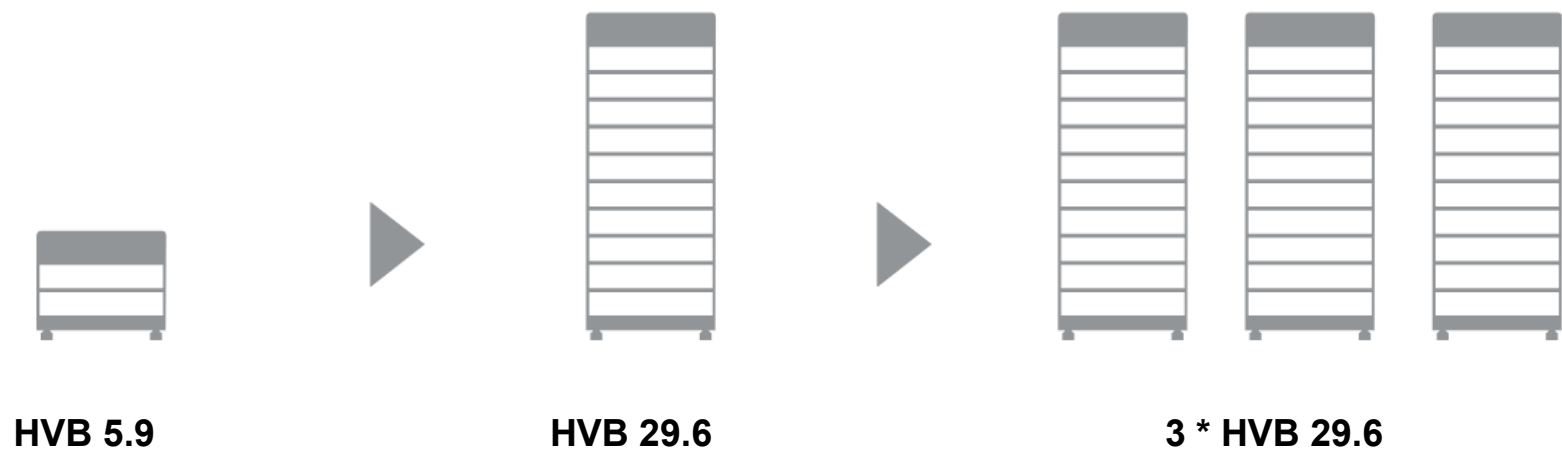
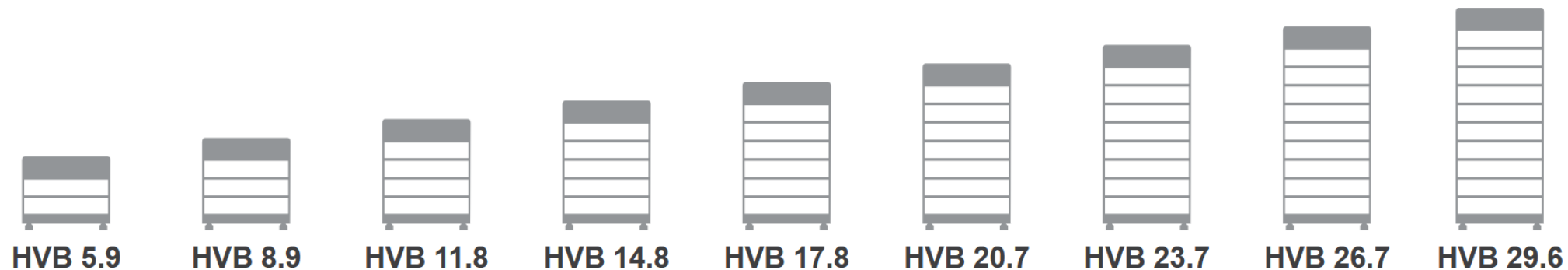


HVE



BATTERY-BOX HVB

DIE NEUE BATTERIE BENCHMARK



HÖCHSTE ENERGIEDICHTE

HVB



Kapazität	2.97 kWh
Volumen	18.2 L
Gewicht	27.3 kg
Höhe	106 mm

HÖCHSTE ENERGIEDICHTE

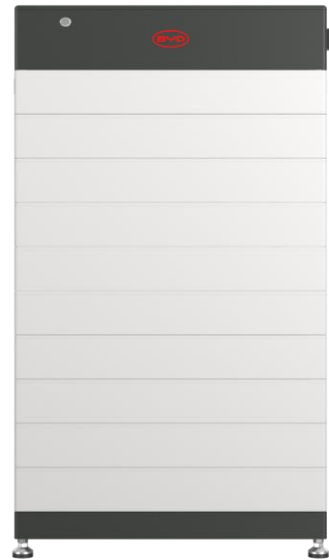
22.1 kWh



2160mm

HVM

29.6 kWh

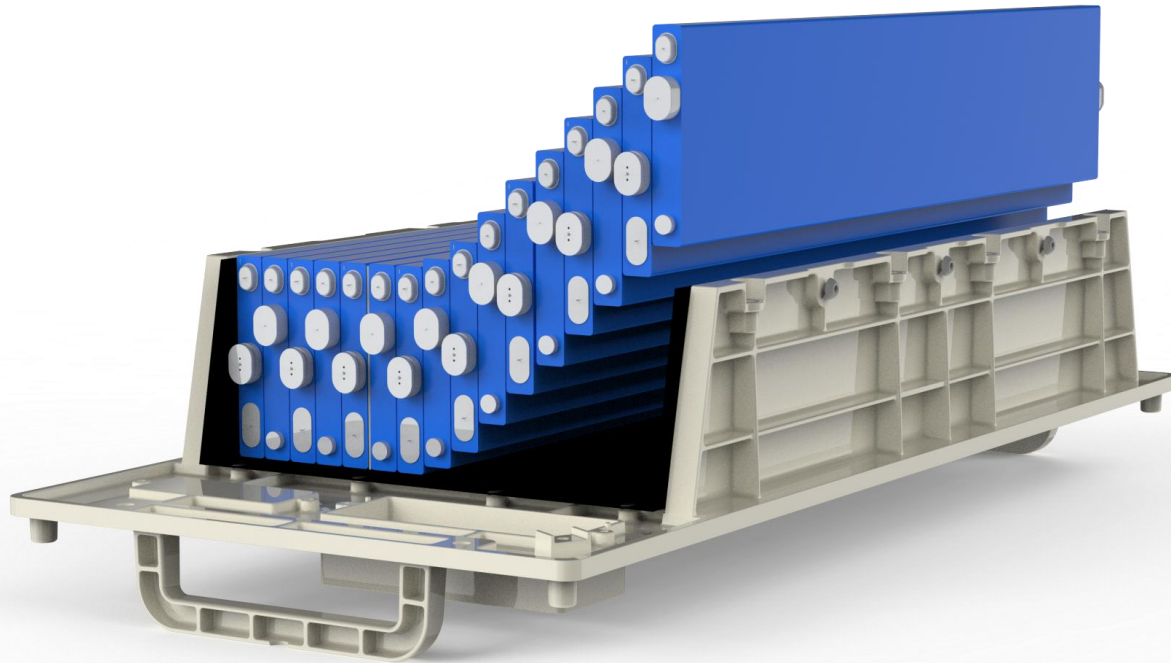


1327mm

HVB

10 Module (29.6 kWh) nur 1.32 m

ÜBERLEGENE TECHNOLOGIE

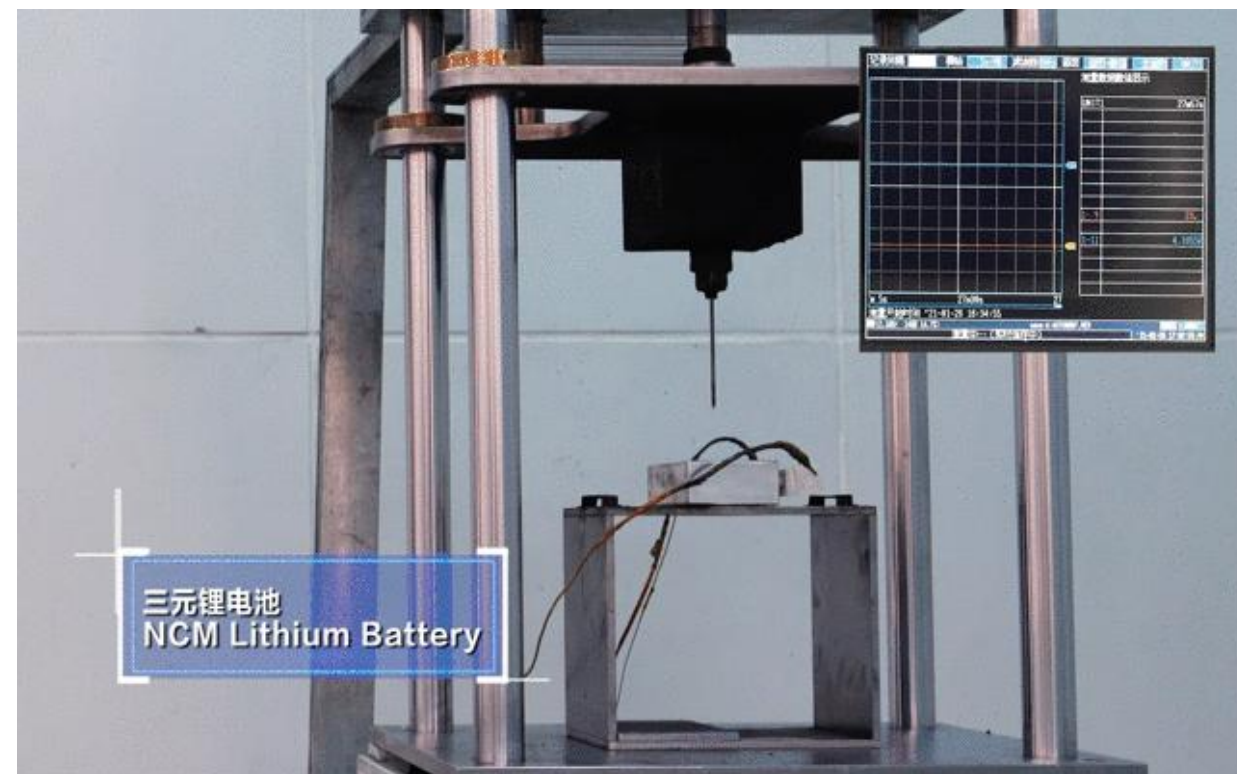


BYD Blade Battery Zelle

CTP (Cell To Pack) Struktur

10-Ton Druckfestigkeit

ÜBERLEGENE TECHNOLOGIE



EINFACHE INSTALLATION



Plug-and-play

Versteckte Griffe

Schnelle Konfiguration

Vollguss-Gehäuse

Nur 27 kg pro Modul

EINFACHE INSTALLATION



Seitliche Kabelführung



Hintere Kabelführung

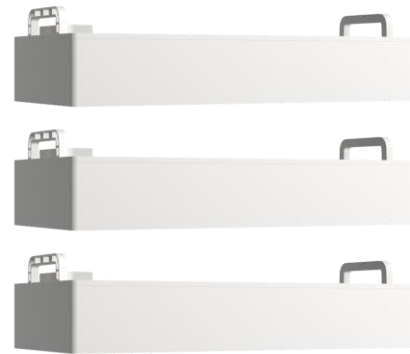
Kein Abdeckung nötig

Schneller Anschluss

Zwei Kabelführungen möglich

HÖCHSTE FLEXIBILITÄT

Erweiterung bei jedem SOC



Automatische SOC Anpassung*

*Abhängig vom SOC Unterschied, kann die automatische Anpassung etwas Zeit benötigen

NEUE BATTERIE HVB

GARANTIE



15 Jahre Garantie

Unlock Effortless Energy

27kg in hands,
10 kWh installed in 10 minutes,
15-year warranty





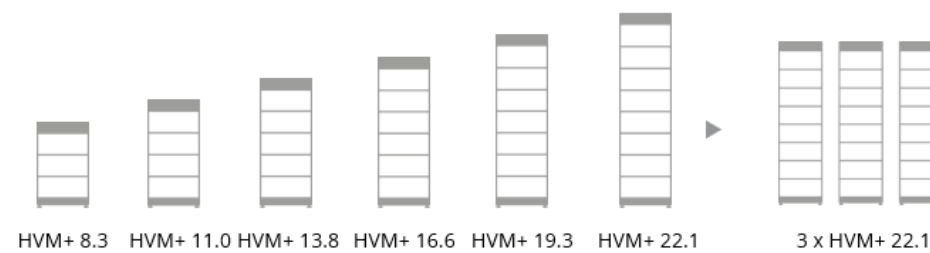
BATTERY-BOX HVS+ / HVM+

HVS+ / HVM+

HVS+



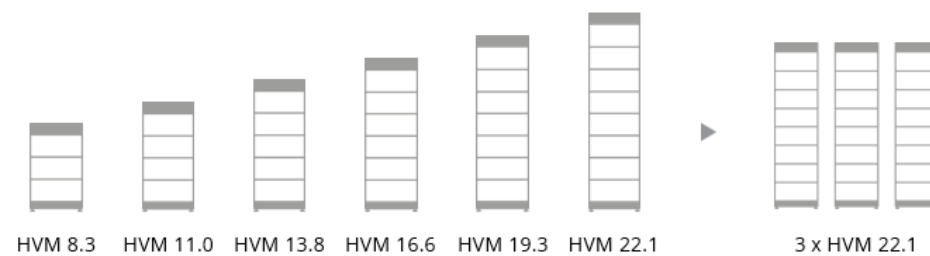
HVM+



HVS



HVM



NEUE FUNKTIONEN BEI HVS+ / HVM+

BCU Upgrade



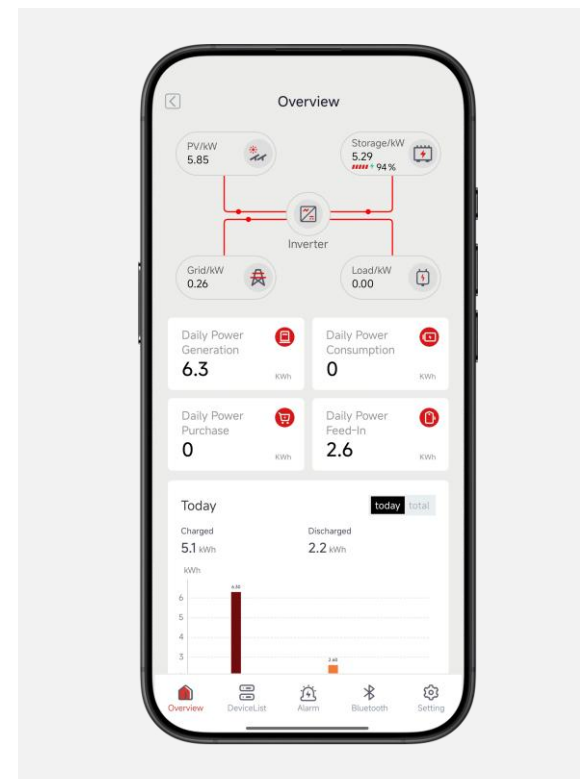
Same BCU as HVB
Flexible Wiring

System Upgrade



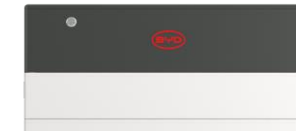
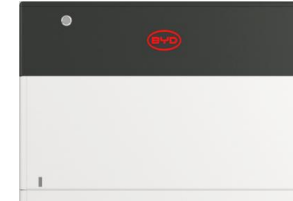
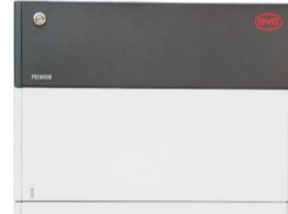
Quick Configuration






App Upgrade



Real-time Monitoring
Failure Alarms
Remote Updates

VERGLEICH



	HVS / HVM	HVS+ / HVM+	HVB
Compatibility	Kostal, KACO, Fronius, SMA, GoodWe, Sungrow, Solis....	First compatibilities: Kostal, KACO, Fronius Gen24 Plus	First compatibilities: Kostal, KACO, Fronius Verto Plus
BCU	HVS / HVM - BCU 1.0 / 2.0 	HVB / HVS+ / HVM+ - BCU 	
Ethernet & WIFI	Integrated. Ethernet connection only by cable	Optional WIFI Dongle for ethernet connection through WIFI / Cable 	
APP / Program	BeConnect / BeConnect Plus 	BYD Energy 	
Extension	At 30% (25-35%)	Automatic SOC adjustment Extend at any SOC	
Temperature	-10 to 50°C		-20 to 50°C
Module Capacity & Weight	2,56 / 2,76 kWh & 38 kg		2,96 kWh & 27 kg



BATTERY-BOX HVE & POWER-BOX

ERSTE INTEGRIERTE BATTERY-BOX LÖSUNG



BATTERY-BOX HVE & POWER-BOX SH/TH

SINGLE PHASE



POWER-BOX
SH 3/3.7/4.6/5/6K
Max 18 kW (3 parallel)

THREE PHASE



POWER-BOX
TH 5/6/8/10/12/15K
Max 45 kW (3 parallel)

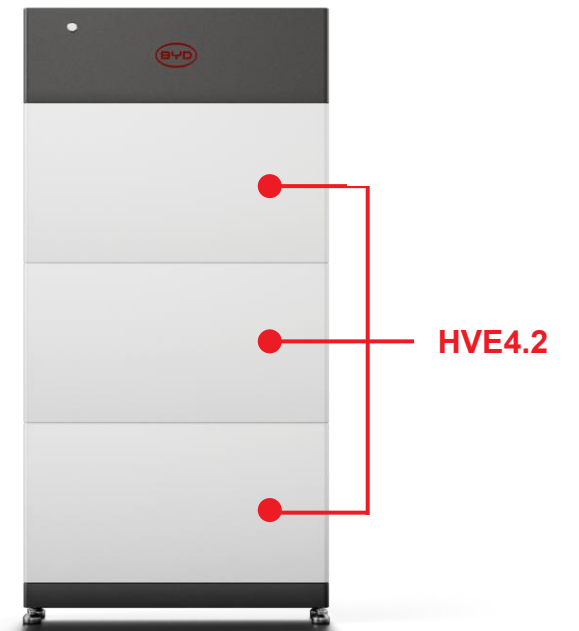
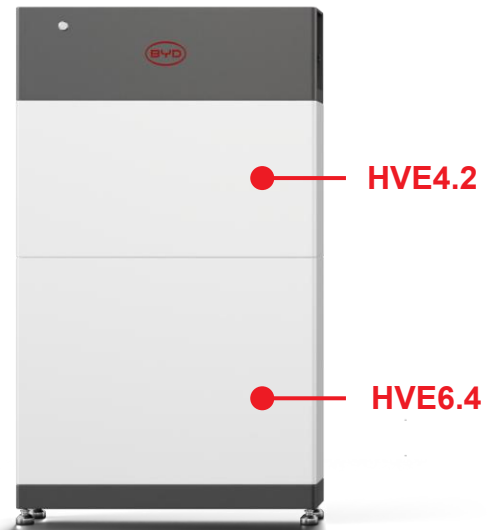
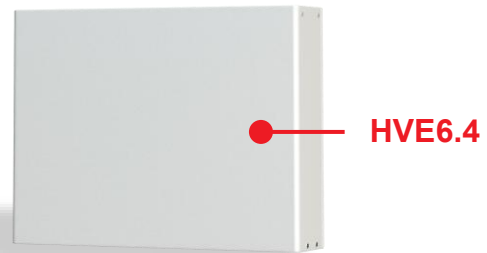
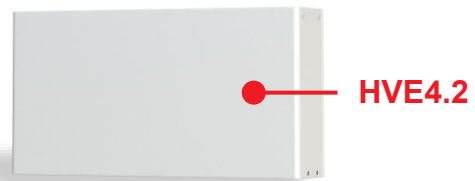


BATTERY-BOX
HVE 6.4/8.5/10.7/12.8/12.9
15.0/17.1/19.3/21.4
Max 64.2 kWh (3 parallel)



BATTERY-BOX
HVE 12.8/12.9/15.0/
17.1/19.3/21.4/23.6
Max 70.9 kWh (3 parallel)

FLEXIBLE KOMBINATION



ZUVERLÄSSIG

GARANTIE



15 years warranty

COOLING



High-quality performance
Natural cooling

IP65



IP65 protection

TEMPERATURE



Operating temperature
-20°C to 55°C

140 mm ultradünn Design.

Dünnere als die Länge eines Smartphones.



Wand und Boden Installation.

Flexibel aufstellen.



Energy Storage



1- / 3-PHASEN HYBRID WECHSELRICHTER



**1 Phasiger
Hybrid Wechselrichter**
Power-Box SH
3/3.7/4.6/5/6K



**3 Phasiger
Hybrid Wechselrichter**
Power-Box TH
5/6/8/10/12/15K



ALLE ANWENDUNGSFÄLLE



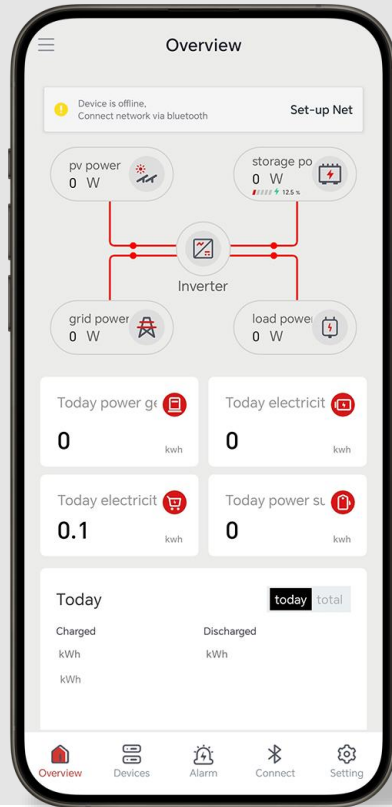
SICHER & ZUVERLÄSSIG



LEISTUNGSSTARKES BACKUP

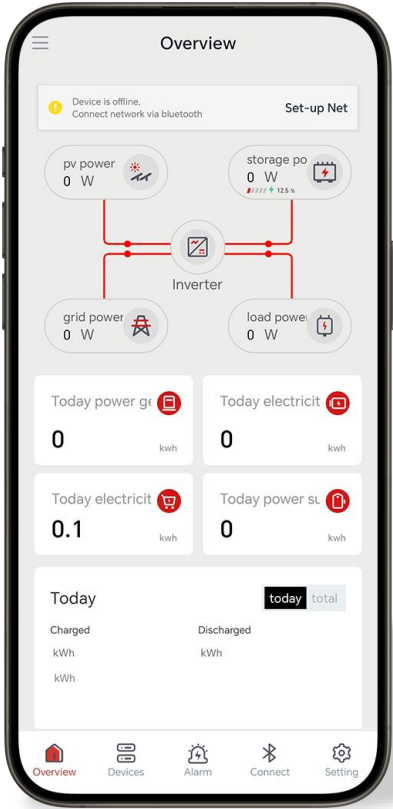


INTELLIGENTES MONITORING



BYD Energy App

BYD ENERGY APP – DOWNLOAD APP



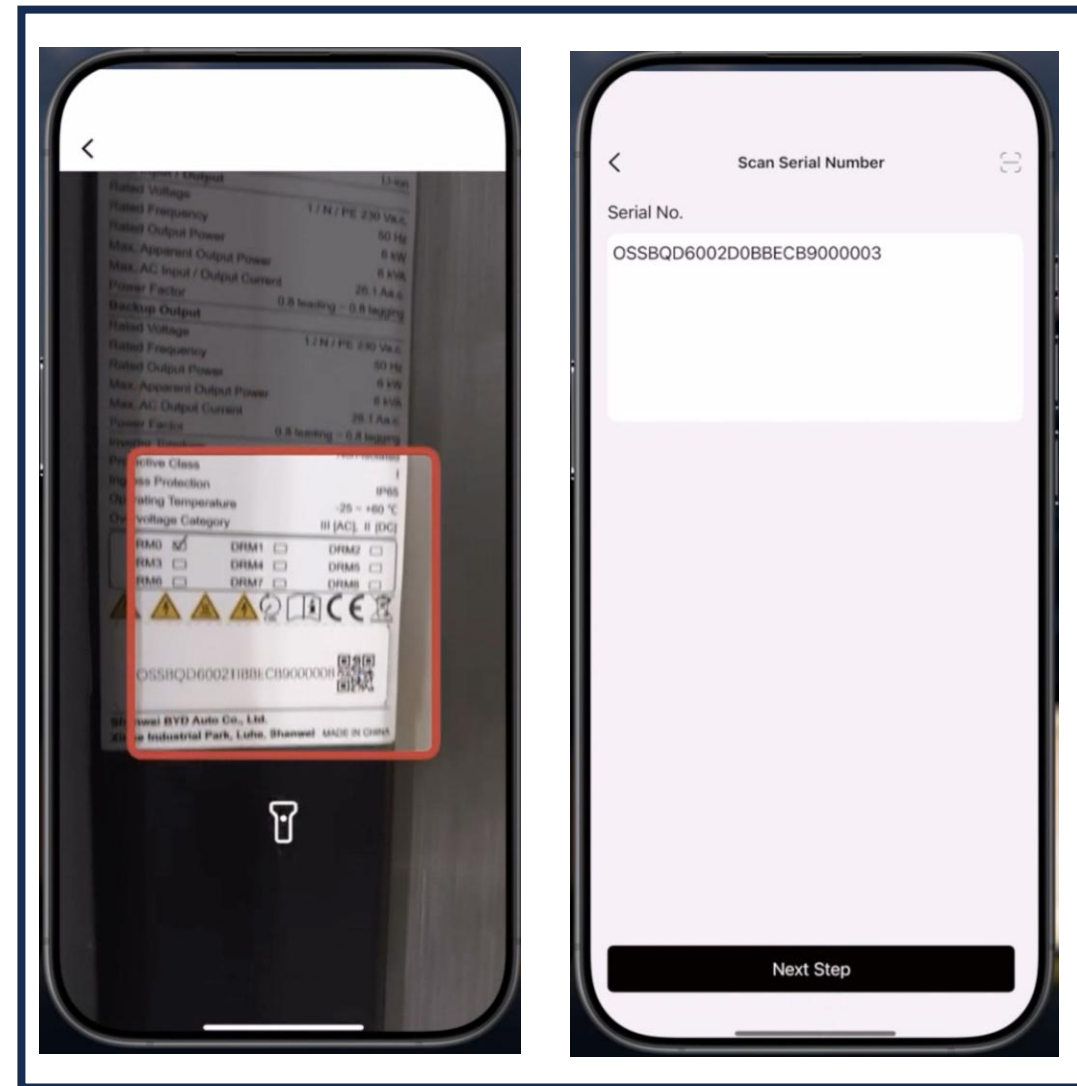
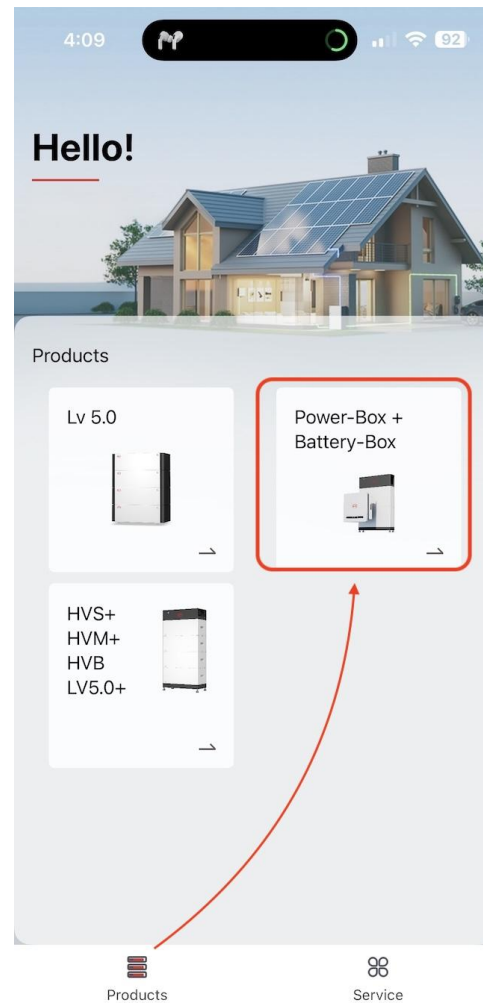
BYD ENERGY APP – NUOVO SISTEMA



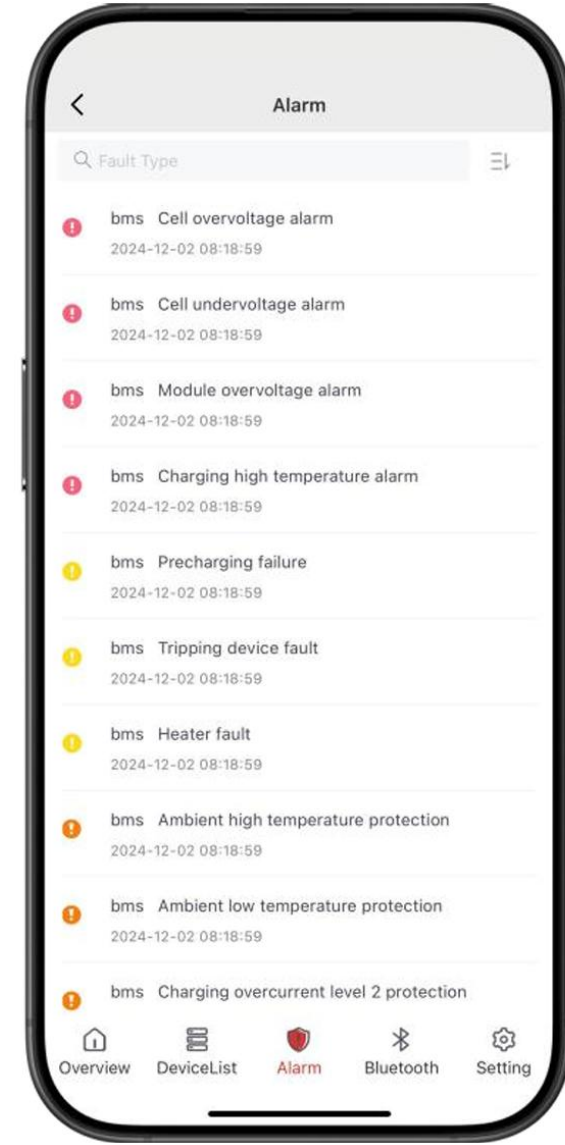
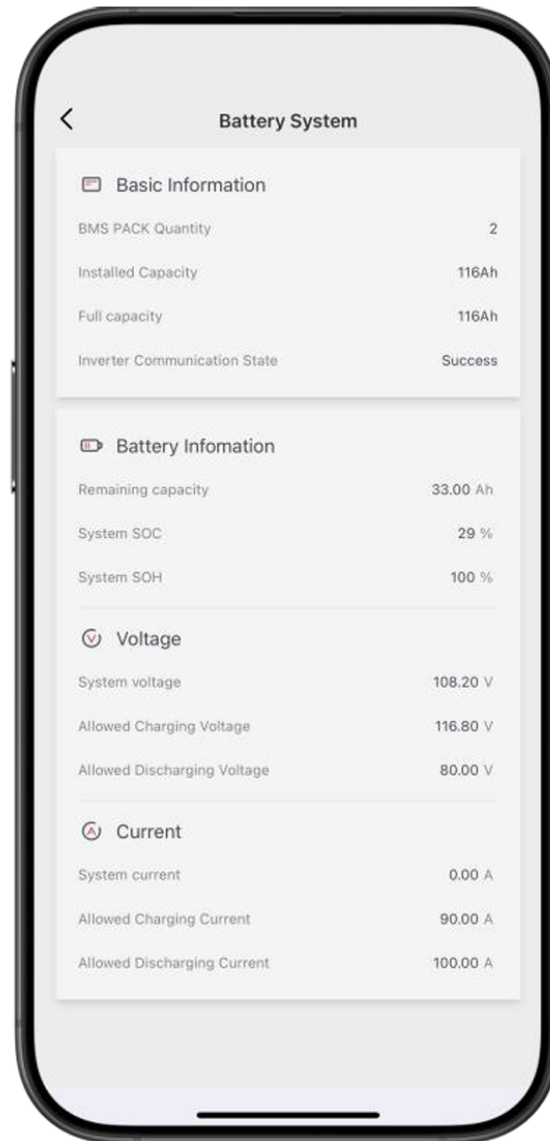
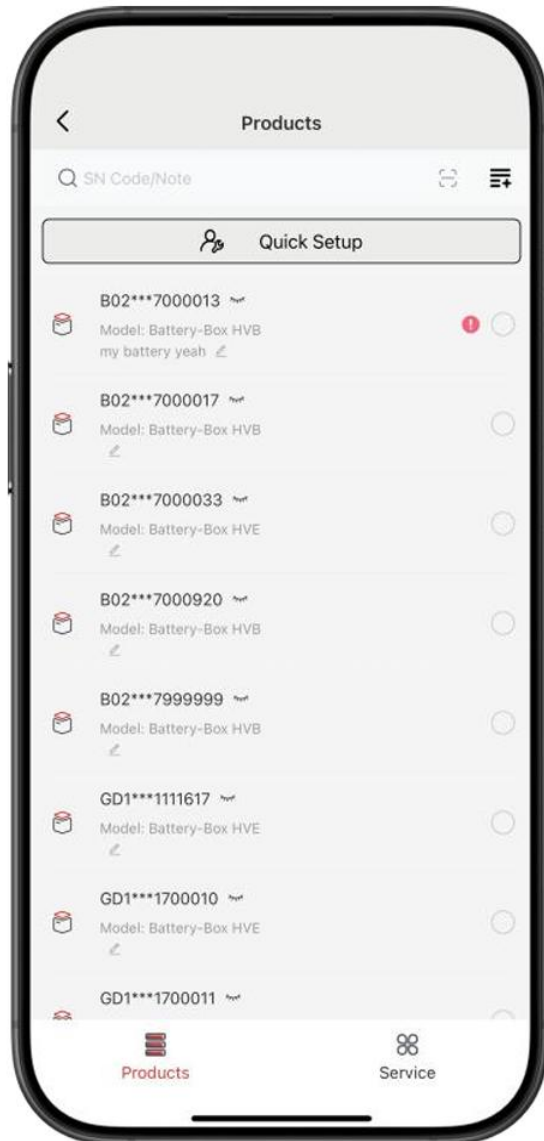
BUTTON →

Bluetooth LED →

WiFi/ETH LED →



BYD ENERGY APP – GESTIONE IMPIANTO (INTERNET, BT)



C&I

FLEXIBLE CAPACITY

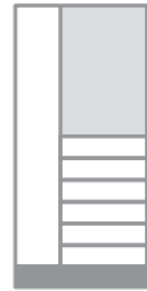
4 – 12 Modules (30-90 kWh)



LITE 30



LITE 37.5



LITE 45



LITE 52.5



LITE 60



LITE 67.5



LITE 75



LITE 82.5



LITE 90

Up to 32 units in parallel (max. 2,880 kWh)



EASY INSTALLATION



Copper Bar

No screws needed for positive/negative terminals



Patented Terminals

Innovative design for easy connections



Simplified Wiring

Modules connect with short wires within 10cm.



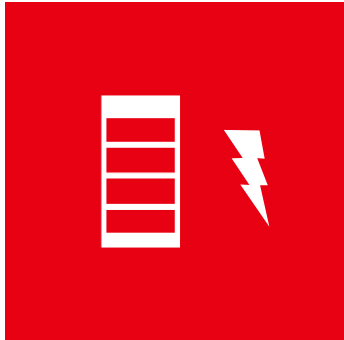
Side Handle Design




Convenient module installation.



POWERFUL FOR EVERY APPLICATION

Very high output: 1C output - up to 90 kW per cabinet



Inverter Brand	Inverter Model	Nominal Output Power (kW)	AC/DC Coupling	REAL INVERTER OUTPUT (kW)										Use Case
				30 kWh	37.5 kWh	45 kWh	52.5 kWh	60 kWh	67.5 kWh	75 kWh	82.5 kWh	90 kWh		
GOODWE	GW 40K-ET	40	DC-Coupled	-			40				-			On-grid Off-grid Backup (With GW STS BOX < 10 ms)
	GW 50K-ET	50		-			50				-			
	S6-EH3P29.9K-H	29.9	DC-Coupled	29.9						-				On-grid Off-grid Backup (< 10 ms)
	S6-EH3P30K-H	30		30						-				
	S6-EH3P37.5K-H	37.5		30.7	37.5				-					
	S6-EH3P40K-H	40		30.7	38.3	40			-					
	S6-EH3P50K-H	50		30.7	38.3	46	50		-					
Deye	Deye SUN-29.9K-SG01HP3-EU-BM3	29,9	DC-Coupled	29.9						-				On-grid Off-grid Backup
	Deye SUN-30K-SG01HP3-EU-BM3	30		30						-				
	Deye SUN-35K-SG01HP3-EU-BM3	35		-	35				-					
	Deye SUN-40K-SG01HP3-EU-BM3	40		-			40			-				
	Deye SUN-50K-SG01HP3-EU-BM3	50		-			50			-				
	MEGA00030TS	30	DC-Coupled	30						-				On-grid Off-grid Backup
	MEGA00050TS	50		-			50			-				
KACO  new energy.	KACO-92-137TL3	92	AC-Coupled	-							84.4	92	On-Grid	

THE MOST IMPORTANT ADVANTAGES



Safety

LFP cells developed in-house
Proven in millions of EVs



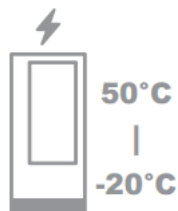
Reliability

LFP expertise since 2002
1M+ systems in 100+ countries



Flexibility

Flexible capacity options 30kWh ~ 2.88MWh



High Performance

1C fast charging and discharging
Wide operating temperature range



Easy Installation

Patented copper bar connection
Designed cable trunking for tidy appearance



Intelligent Management

Asset management
Battery working monitoring

ANWENDUNGSBEREICHE

Eigenbedarfserhöhung

Wohnsiedlungen, Gewerbe (Handel)
Mieterstrommodell

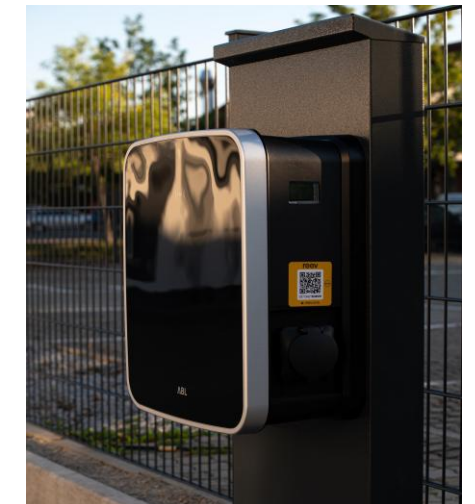
Ladeinfrastruktur

Autohäuser, Gewerbe, Hotels

Notstrom & OffGrid

Peak-Shaving

Produzierendes Gewerbe



Utility

THE BATTERY: BYD MC CUBE



MC Cube (2024)

VERSION	4h (0.25C)	2h (0.5C)
HIGH CAPACITY	536 kWh	466 kWh
MAXIMUM POWER	129 kW	250 kW
COMPACT	1130 x 1203 x 2521 mm	
HIGH QUALITY	BYDs leading LFP blade battery	
FLEXIBLE	IP55, temp. - 30 to 55 °C	
SAFE	BYD's 17-year track record - 0 safety incidents	

FLEXIBLE



In 0.5 MWh steps, any capacity is possible



0.5 MWh

SINGLE CABINETS

1 MWh

MULTIPLE CABINETS

5 MWh

20FT CONTAINERS

>100 MWh

PARKS

BYD: WELTWEITE ERFAHRUNG MIT ÜBER 75 GWH



BYD AUTO



> 14.000.000

> 17 Years

> 1.000.000 km
(single vehicles)

Proven.



Consequent: Lithium iron phosphate (LFP)

BYD AUTO



ATTO3



HAN



TANG



ETP3



DOLPHIN



SEAL



SEAL U



E-Vali



THANK YOU



www.bydbatterybox.com

www.eft-systems.de



BYD Battery-Box

