


# Energy storage systems comparison 2023

## High voltage (HV)

Manufacturer	Model	AC rated power	Inverter parallel connection	AC phases		Hybrid / battery inverter	Emergency power socket*	Backup power**	Backup power light***	Solar recharging****	SG ready (accessories, if applicable)	Battery	Cell chemistry	Capacity (net) per battery	Battery parallel connection	Max. battery discharge capacity per inverter		
				1	3													
<b>Energizer</b>	Force HT	8.0 - 12 kVA	-	-	✓	Hybrid	-	-	✓	✓	-	<b>Energizer</b>	Powerstack 2.9 / 4.03	Lithium-iron-phosphate	10.4 - 25.4 kWh	up to 10	6 - 10.5 kW	
<b>Fronius</b>	Primo GEN24 Plus	3.0 - 4.6 kVA	-	✓	-	Hybrid	✓	✓	-	✓	✓	<b>BYD</b> and <b>LG Energy Solution</b>	BYD Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 - 19.3 kWh	up to 3	3.0 - 4.6 kW	
	Symo GEN24 3.0 - 5.0 Plus	3.0 - 5.0 kVA	-	-	✓	Hybrid	✓	-	-	✓	✓		BYD Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 - 23.5 kWh		2.6 - 5.0 kW	
	Symo GEN24 6.0 - 10.0 Plus	6.0 - 10.0 kVA	-	-	✓	Hybrid	✓	✓	-	-	✓	✓	LG RESU FLEX	Nickel-manganese-cobalt	8.6 - 17.2 kWh	up to 2	4.5 - 9.0 kW	
<b>GOODWE</b>	ET Plus (16A) series	5.0 - 10.0 kVA	up to 10	-	✓	Hybrid	-	-	✓	✓	✓	<b>BYD</b> and <b>LG Energy Solution</b>	BYD Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 - 23.5 kWh	up to 3	5.0 - 10.0 kW	
													LG RESU FLEX	Nickel-manganese-cobalt	8.6 - 17.2 kWh	up to 2	4.3 - 8.5 kW	
	ET 15-30	15.0 - 29.9 kVA	planned	-	✓	Hybrid	-	-	✓	✓	✓	<b>GOODWE</b>	GoodWe Lynx Home F Plus	Lithium-iron-phosphate	6.5 - 16.4 kWh	up to 8	5.8 - 10.0 kW	
<b>KOSTAL</b>	PLENTICORE plus	4.2 - 10.0 kVA	-	-	✓	Hybrid	-	-	-	-	✓	<b>LG Energy Solution</b> and <b>BYD</b>	LG RESU FLEX	Nickel-manganese-cobalt	8.6 - 17.2 kWh	up to 2	4.3 - 8.5 kW	
	PLENTICORE BI 5.5 / 10	5.5 / 10.0 kVA	-	-	✓	Battery	-	-	-	-	-		BYD Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 - 23.5 kWh	up to 3	2.7 - 6.5 kW	
	PIKO MP plus	1.5 - 4.6 kVA	-	✓	-	Hybrid	-	-	-	-	-	-	<b>BYD</b>	BYD Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 - 23.5 kWh	up to 3	5.5 - 10.0 kW
																		1.5 - 5.0 kW
<b>Jinko Solar</b>	Jinko Hybrid JKS 8 - 20K HV	8 - 20 kVA	up to 10	-	✓	Hybrid	-	✓	-	✓	-	<b>Jinko Solar</b>	Jinko high voltage battery	Lithium-iron-phosphate	5.68 - 17.04 kWh	up to 2	4.26 - 12.78 kW	
<b>LG</b>	LG ESS Home 8 / 10	8.0 / 10.0 kVA	-	-	✓	Hybrid	-	✓	-	✓	✓	<b>LG</b>	LG HBC 11H / 15H	Nickel-manganese-cobalt	10.7 / 14.2 kWh	up to 2	4.0 - 7.0 kW	
<b>RCT power</b>	RCT Power Storage DC	4.0 - 10.0 kVA	planned	-	✓	Hybrid	-	✓	-	✓	✓	<b>RCT power</b>	RCT Power Battery	Lithium-iron-phosphate	3.4 - 10.4 kWh	planned	3.8 - 10.0 kW	
	RCT Power Storage AC	6.0 kVA	-	-	✓	Battery	-	-	-	-	-							
<b>SMA</b>	Sunny Boy Storage 2.5	2.5 kVA	-	✓	-	Battery	-	-	-	-	✓	<b>BYD</b>	BYD Battery-Box Premium HVS	Lithium-iron-phosphate	5.1 - 10.2 kWh	up to 3	2.5 kW	
											BYD Battery-Box Premium HVS / HVM		5.1 - 23.5 kWh		3.7 - 7.5 kW			
	Sunny Boy Storage 3.7 / 5.0 / 6.0	3.7 - 6.0 kVA	-	✓	-	Battery	✓	✓	-	✓	✓	<b>LG Energy Solution</b>	LG Energy Solution 10H / 16H Prime	Nickel-manganese-cobalt	9.6 / 16.0 kWh	up to 3	3.7 - 8.5 kW	
													LG RESU FLEX		8.6 - 17.2 kWh	up to 2	4.3 - 8.5 kW	
	SMA Hybrid 5.0 - 10.0	5.0 - 10.0 kVA	-	-	✓	Hybrid	-	-	✓	✓	✓	<b>BYD</b> and <b>SMA</b>	BYD Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 - 23.5 kWh	up to 3	10 / 12 kW	
Sunny Boy Smart Energy	3.6 - 6 kVA	-	✓	-	Hybrid	-	✓	✓	✓	✓	SMA Home Storage		3.28 - 16.4 kWh		-	2.9 - 6.3 kW		
<b>solarEdge</b>	StorEdge single-phase inverter	2.2 - 4.6 kVA	up to 3	✓	-	Hybrid	-	-	-	-	✓	<b>solarEdge</b> and <b>LG Energy Solution</b>	Home battery high voltage	Nickel-manganese-cobalt	9.7 kWh	up to 3	5 kW	
						Hybrid, PV, AC	-	-	-	-	-		✓		LG Energy 10H / 16H Prime	Nickel-manganese-cobalt	9.6 / 16.0 kWh	up to 2
<b>solis</b>	Solis S6 3P-Hybrid	5.0 - 10.0 kVA	-	-	✓	Hybrid	-	-	✓	✓	-	<b>BYD</b>	BYD Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 - 23.5 kWh	up to 3	5.1 - 10.6 kW	
<b>SUNGROW</b>	SH5.0RT - SH10RT	5.0 - 10.0 kVA	up to 5	-	✓	Hybrid	-	-	✓	✓	✓	<b>SUNGROW</b> Clean power for all	Sungrow	Lithium-iron-phosphate	9.6 - 25.6 kWh	-	6.0 - 10.6 kW	
													BYD Battery-Box Premium HVS / HVM		Lithium-iron-phosphate	5.1 - 23.5 kWh	up to 3	5.1 - 10.6 kW

\* Emergency power: Individual loads can be supplied at a power outlet in the event of a mains failure.  
 \*\* Backup power: The system automatically switches over in the event of a power failure and supplies the house grid 1- / 3-phase.  
 \*\*\* Backup power light: The system automatically switches over in the event of a power failure and supplies only selected circuits 1- 3-phase.  
 \*\*\*\* Solar recharging: The system can be solar recharged in emergency power / backup power mode.  
 The recommendations and dimensioning do not replace an appropriate system design. 1-phase inverters are regulated to a maximum of 4.6 kVA in Germany.

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