

Energy storage systems comparison 2024

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												
Energizer	Force HT	8.0 – 12.0 kVA	-	-	✓	Hybrid	-	-	✓	✓	-	Energizer	Powerstack 2.9	Lithium-iron-phosphate	11.5 – 20.2 kWh	up to 10	6 – 10.5 kW
Fronius	Primo GEN24 Plus	3.0 – 4.6 kVA	-	✓	-	Hybrid	✓	✓	-	✓	✓	BYD und LG Energy Solution	RESU FLEX	Nickel-manganese-cobalt	8.6 – 12.9 kWh	up to 2	3.1 – 4.8 kW
	Symo GEN24 3.0 – 5.0 Plus	3.0 – 5.0 kVA	-	-	✓	Hybrid	✓	-	-	✓	✓		Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 – 7.7 kWh / 11.0 – 19.3 kWh	up to 3	3.1 – 4.8 kW
	Symo GEN24 6.0 – 10.0 Plus	6.0 – 10.0 kVA	-	-	✓	Hybrid	✓	✓	-	-	✓		RESU FLEX	Nickel-manganese-cobalt	8.6 – 17.2 kWh	up to 2	3.1 – 5.2 kW
GOODWE	ET Plus (16A) Serie	5.0 – 10.0 kVA	up to 10	-	✓	Hybrid	-	-	✓	✓	✓	BYD	Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 – 22.1 kWh	up to 3	5.12 – 10.0 kW
												LG Energy Solution	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	up to 4	-	✓	Hybrid	-	-	✓	✓	✓	PYLONTECH	Force H1 / H2	Lithium-iron-phosphate	6.7 – 23.6 kWh	up to 6	5.0 – 10.0 kW
												GOODWE	Lynx Home F Plus	Lithium-iron-phosphate	6.5 – 16.4 kWh	up to 8	5.12 – 12.8 kW
KOSTAL	PLENTICORE G3L	15 – 20 kVA	-	-	✓	Hybrid	-	✓	-	✓	✓	BYD	Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 – 22.1 kWh	up to 3	5.1 – 12.2 kW
												LG Energy Solution	RESU FLEX	Nickel-manganese-cobalt	8.6 – 17.2 kWh	up to 2	4.3 – 8.5 kW
	PLENTICORE G2 plus	3.0 – 10.0 kVA	-	-	✓	Hybrid	-	-	-	-	✓	PYLONTECH	Force H1 / H2	Lithium-iron-phosphate	6.7 – 23.6 kWh	up to 6	1.86 – 4.99 kW
												LG Energy Solution	RESU FLEX	Nickel-manganese-cobalt	8.6 – 17.2 kWh	up to 2	3.1 – 6.9 kW
	PLENTICORE BI G2 5.5 / 10	5.5 / 10.0 kVA	-	-	✓	Battery	-	-	-	-	-	BYD	Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 – 22.1 kWh	up to 3	2.3 – 6.5 kW
												PYLONTECH	Force H1 / H2	Lithium-iron-phosphate	6.7 – 23.6 kWh	up to 6	3.7 – 10 kW
PIKO MP plus	1.5 – 4.6 kVA	-	✓	-	Hybrid	-	-	-	-	-	BYD	Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 – 22.1 kWh	up to 3	1.5 – 5.0 kW	
FOX	H3 Pro	15 – 30 kVA	up to 10	-	✓	Hybrid	-	✓	-	✓	✓	FOX	ECS 2900	Lithium-iron-phosphate	11.5 – 20.2 kWh	-	11.5 – 20.2 kW
													ECS 4300		16.6 – 29.0 kWh	up to 2	11.5 – 20.2 kW
	H3-E	5.0 – 12 kVA	-	-	✓	Hybrid	-	-	✓	✓	-		ECS2900		8.6 – 20.1 kWh	-	4.5 – 10.5 kW
													ECS4300		12.4 – 29.0 kWh	-	4.49 – 10.8 kW
LG	ESS Home 8 / 10	8.0 / 10.0 kVA	-	-	✓	Hybrid	-	✓	-	✓	✓	LG	HBC 11H / 15H	Nickel-manganese-cobalt	10.7 / 14.2 kWh	up to 2	4.0 – 7.0 kW
RCT	Storage DC	4.0 – 10.0 kVA	up to 10	-	✓	Hybrid	-	✓	-	✓	✓	RCT	Power Battery	Lithium-iron-phosphate	3.4 – 10.4 kWh	geplant	3.1 – 10.0 kW
	Storage AC	6.0 kVA	-	-	✓	Battery	-	-	-	-	-						3.1 – 6.0 kW
SMA	Sunny Boy Storage 2.5	2.5 kVA	-	✓	-	Battery	-	-	-	-	✓	BYD	Battery-Box Premium HVS	Lithium-Eisen-Phosphat	5.1 – 10.2 kWh	up to 3	1.5 – 2.5 kW
	Sunny Boy Storage 3.7 / 5.0 / 6.0	3.7 – 6.0 kVA	-	✓	-	Battery	✓	✓	-	✓	✓		Battery-Box Premium HVS / HVM		5.1 – 22.1 kWh		3.7 – 6.0 kW
	Hybrid Sunny Tripower 5.0 – 10.0 Smart Energy	5.0 – 10.0 kVA	-	-	✓	Hybrid	-	-	✓	✓	✓	LG Energy Solution	RESU FLEX	Nickel-manganese-cobalt	8.6 – 17.2 kWh	up to 2	3.7 – 6.0 kW
												PYLONTECH	Force H1 / H2	Lithium-iron-phosphate	6.7 – 23.6 kWh	up to 3	3.7 – 6.0 kW
	Sunny Boy Smart Energy	3.6 – 6.0 kVA	-	✓	-	Hybrid	-	✓	✓	✓	✓	SMA	Home Storage	Lithium-Eisen-Phosphat	5.1 – 12.8 kWh & 11.0 – 22.1 kWh	up to 3	2.4 – 10.0 kW
													6.5 – 16.4 kWh			3.5 – 10.0 kW	
solar edge	Home Hub single-phase	2.2 – 4.6 kVA	up to 3	✓	-	Hybrid	-	(available soon)	-	-	✓	solar edge	Home Battery high voltage	Nickel-manganese-cobalt	9.7 kWh	up to 3	5 kW
						Hybrid. PV. AC	-	-	-	-	✓						
solis	S6 3P-Hybrid	5.0 – 10.0 kVA	-	-	✓	Hybrid	-	-	✓	✓	-	BYD	Battery-Box Premium HVS / HVM	Lithium-iron-phosphate	5.1 – 22.1 kWh	up to 3	5.1 – 10.6 kW
												PYLONTECH	Force H1 / H2	Lithium-iron-phosphate	6.7 – 23.6 kWh	up to 6	5.0 – 10.0 kW
SUNGROW	SH5.0RT – SH10RT	5.0 – 10.0 kVA	up to 5	-	✓	Hybrid	-	-	✓	✓	✓	BYD	Battery-Box Premium HVS/HVM	Lithium-iron-phosphate	5.1 – 22.1 kWh	up to 3	10/ 12 kW
	SH15-25T	15 – 25 kVA	up to 2	-	✓	Hybrid	-	✓	-	✓	✓	SUNGROW	SBR	Lithium-iron-phosphate	9.6 – 25.6 kWh	-	5.0 – 10.0 kW
																	5.8 – 15.4 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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