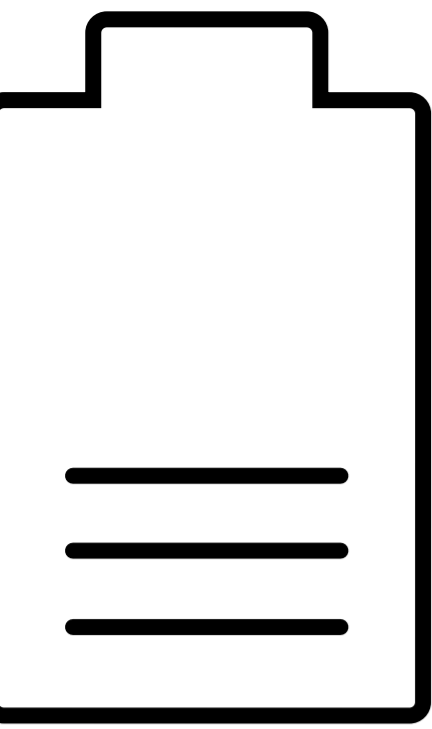


Energy storage systems comparison 2024



Low voltage (48 V) (LV)



Low voltage (48 V) (LV)	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												
GOODWE	GOODWE	EM Series	3.0 - 4.6 kVA	-	✓	-	Hybrid	-	-	✓	✓	-	LG Energy Solution Energy-Gate und BYD	Energy Solution RESU 48 V	Nickel-Mangan-Cobalt	5.9 - 11.7 kWh	up to 2	2.6 kW
		ES Series	3.7 - 5.0 kVA	-	✓	-	Hybrid	-	-	✓	✓	-	GOODWE	Battery-Box Premium LVS Lynx Home U-20	Lithium-Eisen-Phosphat	4.0 - 24.0 kWh 5.4 kWh	up to 16 up to 6	2.6 - 5.0 kW
SMA	SMA	Sunny Island	3.3 - 6.0 kVA	exactly 3	✓	✓	Battery	-	✓	-	✓	✓	LG Energy Solution Energy-Gate	Energy Solution 48 V	Nickel-Mangan-Cobalt	5.9 - 12.4 kWh	up to 2 (only with 1 inverter)	3.3 - 5.0 kW
													BYD	Battery-Box Premium LVS Battery-Box Premium LVL	Lithium-Eisen-Phosphat	4.0 - 24.0 kWh 15.4 kWh	up to 16 up to 64	3.3 - 6.0 kW 3.3 - 6.0 kW
solarEdge	solarEdge	Home Hub three-phase inverter RWB48	5.0 - 10.0 kVA	up to 3	-	✓	Hybrid	-	✓	-	✓	✓	solarEdge	Home Battery	Lithium-Eisen-Phosphat	4.6 - 23.0 kWh	-	5.0 kW
		StorEdge three-phase inverter RWS	5.0 - 10.0 kVA	up to 3	-	✓	Hybrid	-	-	-	-	✓	LG Energy Solution Energy-Gate und BYD	RESU Battery-Box Premium LVS	Nickel-Mangan-Cobalt Lithium-Eisen-Phosphat	5.9 - 11.7 kWh 4.0 - 24.0 kWh	up to 2 -	5.0 kW
														solarEdge	Home Battery	Lithium-Eisen-Phosphat	4.6 - 23 kWh	-
TESLA ENERGY	TESLA ENERGY	Powerwall	4.6 kVA	up to 10	✓	-	Battery	-	-	✓	-	-	TESLA ENERGY	Powerwall	Lithium-Ionen	13.5 kWh	-	4.6 kW
VARTA	VARTA	pulse neo 6	2.3 kVA	up to 6	✓	-	Battery	-	-	-	-	-			Nickel-Mangan-Cobalt	5.9 kWh	-	2.3 kW
		element backup 6-18/S5	1.8 - 4.0 kVA	up to 5	-	✓	Battery	✓	-	-	-	✓	VARTA	Battery	Nickel-Mangan-Cobalt	5.9 - 17.6 kWh	-	1.8 - 4.0 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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