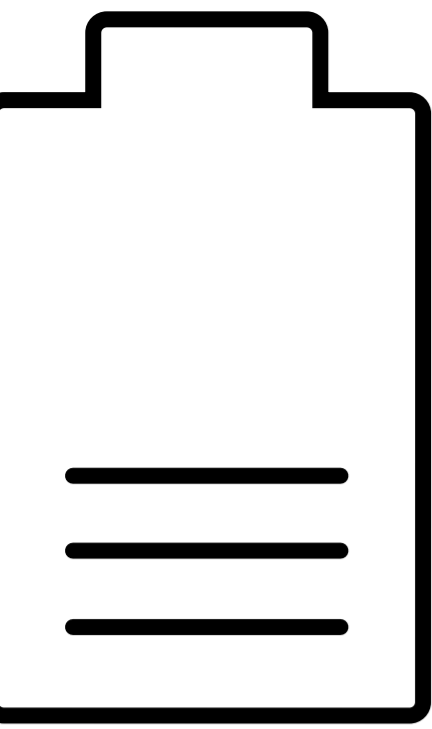


# Energy storage systems comparison 2023



## 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	EM series	3.0 – 4.6 kVA	-	✓	-	Hybrid	-	-	✓	✓	-	-	LG Energy Solution	LG Energy Solution 48 V	Nickel-manganese-cobalt	5.9 – 12.4 kWh	up to 2	2.3 kW
													and	BYD	BYD Battery-Box Premium LVS	Lithium-iron-phosphate	4.0 – 24.0 kWh	up to 16
GOODWE	ES G2	3.0 – 6.0 kVA	-	✓	-	Hybrid	-	-	✓	✓	✓	-	and	GOODWE	GoodWe Lynx Home U	Lithium-iron-phosphate	4.8 kWh	up to 6
													LG Energy Solution	LG Energy Solution 48 V	Nickel-manganese-cobalt	5.9 – 12.4 kWh	up to 2	11.0 kW
SMA	Sunny Island	3.3 – 6.0 kVA	exactly 1 or 3	✓	✓	Battery	-	✓	-	✓	✓	-	BYD	BYD Battery-Box Premium LVS + LVL	Lithium-iron-phosphate	4.0 – 24.0 kWh	up to 64	11.5 kW
													and	GOODWE	GoodWe Lynx Home U	Lithium-iron-phosphate	4.8 kWh	up to 6
solarEdge	Home Hub three-phase inverter RWB48	5.0 – 10.0 kVA	up to 3	-	✓	Hybrid	-	✓	-	✓	✓	-	solarEdge	SolarEdge Home battery	Lithium-iron-phosphate	4.6 – 23 kWh	-	5.0 kW
													LG Energy Solution	LG Energy Solution 48 V	Nickel-manganese-cobalt	5.9 – 12.4 kWh	up to 2	5.0 kW
													BYD	BYD Battery-Box Premium LVS	Lithium-iron-phosphate	4.0 – 24.0 kWh	-	
solarEdge	StorEdge three-phase inverter RWS	5.0 – 10.0 kVA	up to 3	-	✓	Hybrid	-	-	-	-	-	✓	and	GOODWE	GoodWe Lynx Home U	Lithium-iron-phosphate	4.8 kWh	up to 6
													LG Energy Solution	LG Energy Solution 48 V	Nickel-manganese-cobalt	5.9 – 12.4 kWh	up to 2	
solarEdge	StorEdge three-phase inverter RWS	5.0 – 10.0 kVA	up to 3	-	✓	Hybrid	-	-	-	-	-	✓	BYD	BYD Battery-Box Premium LVS	Lithium-iron-phosphate	4.0 – 24.0 kWh	-	5.0 kW
													solarEdge	SolarEdge Home battery	Lithium-iron-phosphate	4.6 – 23 kWh	-	

\* 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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