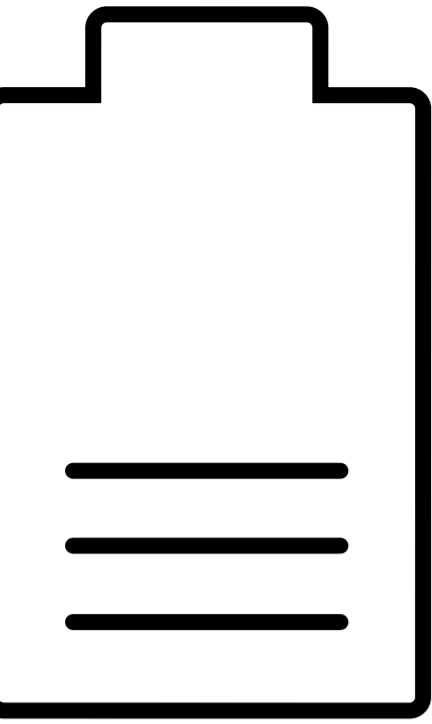


Energy storage systems comparison 2024


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							BYD	Battery-Box Premium LVS				
GOODWE	EM series	3.0 - 4.6 kVA	-	✓	-	Hybrid	-	-	✓	✓	-	BYD	Battery-Box Premium LVS	Lithium-iron-phosphate	4.0 - 24.0 kWh	up to 16	2.6 - 5.0 kW	
																		GOODWE
	ES series	3.68 - 5.0 kVA											BYD	Battery-Box Premium LVS		4.0 - 24.0 kWh	up to 16	
SMA	Sunny Island	3.3 - 6.0 kVA	exactly 3	✓	✓	Battery	-	✓	-	✓	✓	BYD	Battery-Box Premium LVS	Lithium-iron-phosphate	4.0 - 24.0 kWh	up to 16	3.3 - 6.0 kW	
													Battery-Box Premium LVL		15.4 kWh	up to 64		
solar edge	Home Hub three-phase inverter RWB48	5.0 - 10.0 kVA	up to 3	-	✓	Hybrid	-	-	-	-	✓	solar edge	SolarEdge Home Battery	Lithium-iron-phosphate	4.6 - 23.0 kWh	-	5.0 kW	
	StorEdge three-phase inverter RWS												Battery-Box Premium LVS		4.0 - 24.0 kWh			
TESLA ENERGY	Powerwall 3	4.6 kVA	up to 4	✓	-	Hybrid	-	-	✓	✓	-	TESLA ENERGY	Powerwall 3	Lithium-iron-phosphate	13.5 kWh	-	4.6 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.
 Find more detailed information about the possible inverter-storage combinations in our energy storage approval list.

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