

# Energy Storage System Comparison 2023


## Low-Voltage (48 V) (LV)

Low-Voltage (48 V) (LV)	Manufacturer	Model	AC nominal 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 power per inverter
					1	3							Battery	Capacity (net) per battery				
GOODWE	EM Series	3.0 – 4.6 kVA	-	✓	-	Hybrid	-	-	✓	✓	-	 LG Energy Solutions 48 V	Nickel-Manganese-Cobalt	5.9 – 12.4 kWh	up to 2	2.3 kW		
	ES G2	3.0 – 6.0 kVA	up to 3	✓	-	Hybrid	-	-	✓	✓	✓	 BYD Battery-Box Premium LVS	Lithium-iron-phosphate	4.0 – 24.0 kWh	up to 16	3.2 – 6.3 kW		
Jinko Solar	Jinko Hybrid NV	8.0 – 12 kVA	-	-	✓	Hybrid	-	-	✓	✓	-	 GoodWe Lynx Home U	Lithium-iron-phosphate	4.8 kWh	up to 6		5.4 kW	
	Jinko All-in-one	5 kVA	-	✓	-	Hybrid	-	-	✓	✓	-	 Jinko Low-Voltage Battery	Lithium-iron-phosphate	4.6 – 18.4 kWh	-	3.5 – 4 kW		
SMA	Sunny Island	3.3 – 6.0 kVA	exactly 1 or 3	✓	✓	Battery	-	✓	-	✓	✓	 LG Energy Solutions 48 V	Nickel-Manganese-Cobalt	5.9 – 12.4 kWh	up to 2	11.0 kW		
	Home Hub three phase inverter-RWB48	5.0 – 10.0 kVA	up to 3	-	✓	Hybrid	-	✓	-	✓	✓	 BYD Battery-Box Premium LVS + LVL	Lithium-iron-phosphate	4.0 – 24.0 kWh	up to 64	11.5 kW		
solar edge	StorEdge three phase inverter-RWS	5.0 – 10.0 kVA	up to 3	-	✓	Hybrid	-	-	-	-	✓	 SolarEdge Home Battery	Lithium-iron-phosphate	4.6 – 23 kWh	-	5.0 kW		
												 LG Energy Solutions 48 V	Nickel-Manganese-Cobalt	5.9 – 12.4 kWh	up to 2	5.0 kW		
												 BYD Battery-Box Premium LVS	Lithium-iron-phosphate	4.0 – 24.0 kWh	-			
												 SolarEdge Home Battery	Lithium-iron-phosphate	4.6 – 23 kWh	-			

\* Emergency power: The system has a separate power supply socket for every single appliance in case of power failure.  
 \*\* Backup power: In case of a power outage, the system automatically switches to backup power operation and supplies both 1-phase and 3-phase loads.  
 \*\*\* Backup power light: In the event of a power outage, the system automatically switches over and supplies only selected circuits with 1- 3-phase power.  
 \*\*\*\* Solar recharging: The system can be solar recharged in emergency power / backup power mode.

The recommendations and dimensions do not replace the system configuration.

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