

The Battery Matrix provides you with an overview of the possible configurations of storage systems for photovoltaic systems. Based on our current portfolio of inverters and lithium-ion storage systems, you will find the right solution for every application.

In both overviews, our storage solutions are already divided into the two common voltage ranges.

Low voltage 48V (LV)

Low-voltage battery storage systems – a proven technology that is also used for so-called island systems.

As the name suggests, these systems have an output voltage of 48 volts, also known colloquially as low voltage. Very high capacities can thus be built up by parallel connection.

High voltage (HV)

High-voltage technology – a new method of module interconnection for battery storage systems that has now proven its worth.

With this technology, the individual battery modules are connected in series. This results in nominal voltage levels of well over 400V, which brings with it various advantages. Among other things, the entire storage system benefits from reduced conversion losses and higher efficiency. In combination with the current hybrid inverters, this results in an efficient and contemporary storage system.

Low voltage 48V (LV)

- ✓ compatible
 - no compatibility
 - ✓ planned
 - ✓ compatible with restrictions
 - ⚡ emergency/backup power function possible, according to the inverter manufacturer's specifications.
- ¹ The distinction between the emergency and backup power functions must be observed in accordance with the technical characteristics of the respective manufacturers.

Storage manufacturer	LG Energy Solution <small>ESS Battery Division</small>			BYD		GOODWE							
	Product name	RESU 6.5	RESU 10	RESU 12	Battery-Box LVS	Battery-Box LVL	Lynx Home U						
Cell Chemistry	NMC	NMC	NMC	LFP	LFP	LFP							
Usable capacity [kWh]	5.9	8.8	11.7	4.0 - 24.0	15.4	5.4							
Parallel circuit	max. 2	max. 2	max. 2	max. 16	max. 64	max. 6							
Inverter manufacturer	Product name	Nominal AC power [kW]	Quantity phases	Type of inverter	Emergency/backup power capability (with accessories if necessary) ¹	System integration	Product picture						
	Sunny Island	4.4 6.0 8.0	1~/3~ (bei 3 x SI)	Battery	-	AC		✓	✓	✓	✓	✓	-
GOODWE	GW-xx S-BP	3.6 5.0	1~	Battery	⚡	AC		✓	✓	✓	✓	✓	✓
	GW-xx-ES	3.6 5.0	1~	Hybrid	⚡	DC		✓	✓	✓	✓	✓	✓

