



Highly flexible modular system

Available in five sizes from 120 kWh to 1 MWh, our storage containers can easily be combined up to several megawatt-hours of total capacity. They can be expanded even years later without any problems!



Customised charging speeds

You decide how fast your storage system charges! Select the quantity of charge controllers and their output according to the capacity of your storage system and desired charging speed.



Long service life

Our self-developed battery management system guarantees the optimal battery cell charging and discharging rate, and makes our storage system particularly durable. TESVOLT guarantees a 10 year performance warranty on all storage systems.



Transparent

Each individual cell stack in our storage systems is monitored and controlled online. This simplifies maintenance and ensures maximum transparency – also for you!



Twice as safe

Our lithium-iron-manganese-phosphate battery cells are among the safest on the market. The cells are prevented from overheating or overloading by a battery management system and temperature sensors.



Environmentally friendly

Our batteries do not contain environmentally-harmful heavy metals.



Recyclable

Batteries can be returned to TESVOLT for free.

3S SOLAR 

UG (haftungsbeschränkt)
Sustainable Energy Solutions

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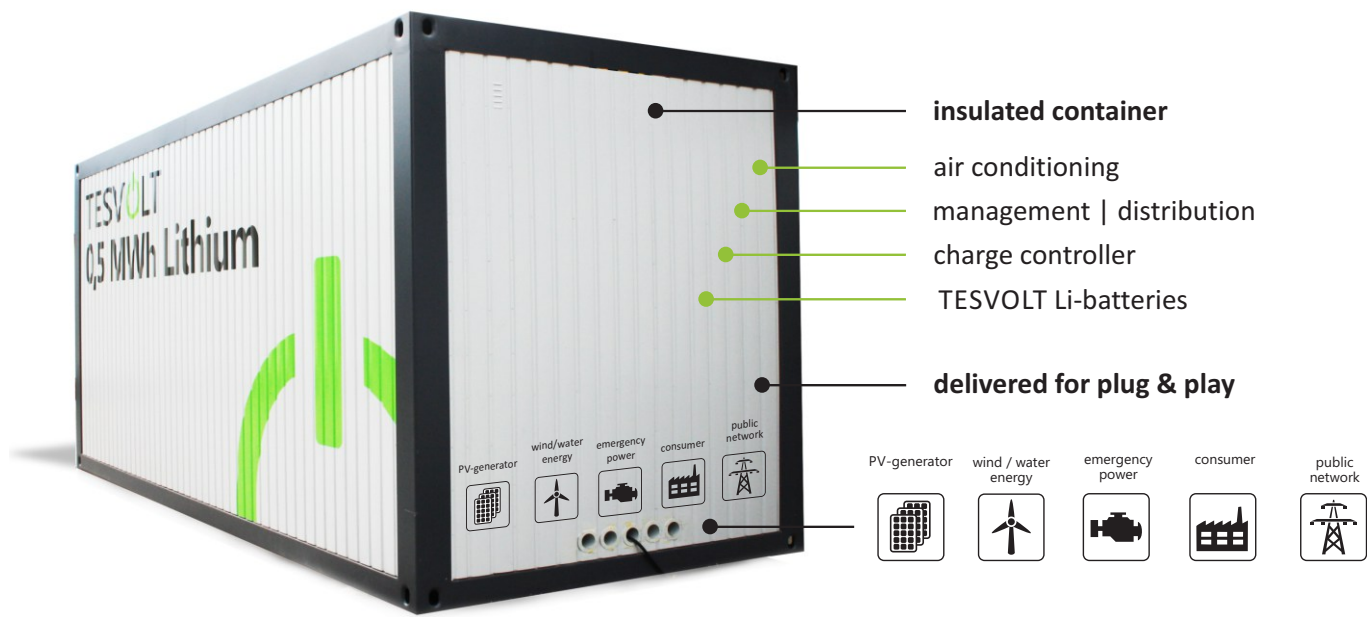
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The ready-to-connect
commercial storage system

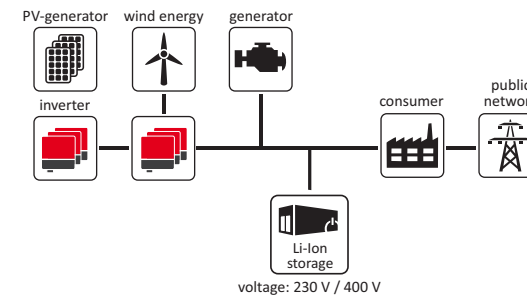
Always a good match.



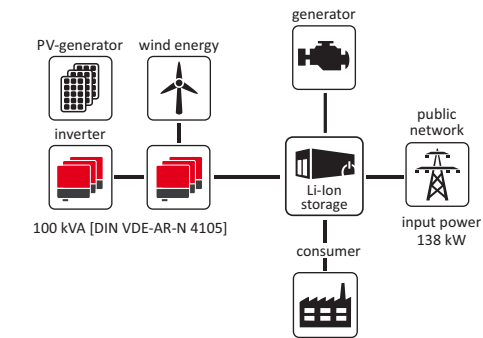
- ⌚ For solar, wind, hydropower, biogas plants and CHP plants
- ⌚ Active bidirectional battery management
- ⌚ Determinable charging speed
- ⌚ On- and off-grid
- ⌚ Emergency power capability
- ⌚ Stand-alone grid function
- ⌚ Transportable
- ⌚ Zero feed-in



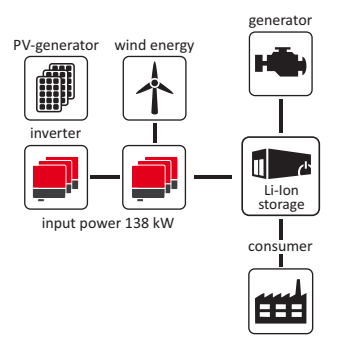
ON-GRID expert



ON-GRID easy



OFF-GRID

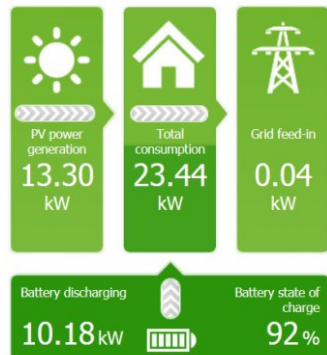


Battery System	TLC 120	
Nominal capacity [kWh]	120	
Max. nominal charging power DC [kW]	36	
Max. nominal discharging power AC [kW]	36	
Depth of discharge [DoD]	70%	90%
Usable capacity [kWh]	84	108
Number of cycles	8,000	5,000
Charging time at rated power [h]	2.4	3.0
Discharging time at rated power [h]	2.4	3.0
Self-discharge	<3% per month	
Max. efficiency	90%	
Isolated operation and emergency mode		
Max. nominal discharge power AC [kW]	36	
Max. nominal discharge power AC [kW] 30 min	48	
Max. nominal discharge power AC [kW] 5 min	54	
Max. nominal discharge power AC [kW] 30 sec <small>(on request)</small>	66	
Battery system		
Electric charge (C1) [Ah]	2,400	
DC nominal power [V]	51.2	
System	3-phase	
Emergency power supply	integrated	
Air conditioning		
Area of application temperature range [P _{el} in kW]	0.275-2.75	
Max. cooling capacity [P _{th} in kW]	2.0-7.0	
Max. heating capacity [P _{th} in kW]	1.8-7.0	
Climate regulation		
General data		
Dimensions L x W x H [mm]	3,000 x 2,450 x 2,900	
Total weight [kg]	4,800	
Installation place	outdoor	
Warranty		
Certificates and approvals (batteries)		
Battery inverter		
Disposal (batteries)		

	TLC 250		TLC 370		TLC 500		TLC 1000	
Nominal capacity [kWh]	240		360		480		960	
Max. nominal charging power DC [kW]	36		54		72		144	
Max. nominal discharging power AC [kW]	36		54		72		144	
Depth of discharge [DoD]	70%	90%	70%	90%	70%	90%	70%	90%
Usable capacity [kWh]	168	216	252	324	336	432	672	864
Number of cycles	8,000	5,000	8,000	5,000	8,000	5,000	8,000	5,000
Charging time at rated power [h]	4.7	6.0	4.7	6.0	4.7	6.0	4.7	6.0
Discharging time at rated power [h]	4.7	6.0	4.7	6.0	4.7	6.0	4.7	6.0
Self-discharge	<3% per month		<3% per month		<3% per month		<3% per month	
Max. efficiency	90%		90%		90%		90%	
Isolated operation and emergency mode								
Max. nominal discharge power AC [kW]	36		54		72		144	
Max. nominal discharge power AC [kW] 30 min	48		72		96		192	
Max. nominal discharge power AC [kW] 5 min	54		81		109		218	
Max. nominal discharge power AC [kW] 30 sec <small>(on request)</small>	66		99		132		264	
Battery system								
Electric charge (C1) [Ah]	4,800		7,200		9,600		19,200	
DC nominal power [V]	51.2		51.2		51.2		51.2	
System	3-phase		3-phase		3-phase		3-phase	
Emergency power supply	integrated		integrated		integrated		integrated	
Air conditioning								
Area of application temperature range [P _{el} in kW]	0.275-2.75		0.275-2.75		0.275-2.75		0.275-2.75	
Max. cooling capacity [P _{th} in kW]	2.0-7.0		2.0-7.0		2.0-7.0		2.0-7.0	
Max. heating capacity [P _{th} in kW]	1.8-7.0		1.8-7.0		1.8-7.0		1.8-7.0	
Climate regulation								
The inside temperature is regulated. For use at temperatures of no less than -20 degrees. Special configurations available for extreme temperatures.								
Dimensions L x W x H [mm]	6,000 x 2,450 x 2,900		6,000 x 2,450 x 2,900		6,000 x 2,450 x 2,900		2 x (6,000 x 2,450 x 2,900)	
Total weight [kg]	8,500		10,500		13,000		2 x 13,000	
Installation place	outdoor		outdoor		outdoor		outdoor	
Power warranty of the battery: 10 years / product warranty of the battery: 2 years / Electronic: 5 years								
CE, MSDS, UN38.3								
VDE-AR-N 4105, CE, FNN								
free								



Partner



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