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.

YOUR CERTIFIED TESVOLT PARTNER

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TESVOLT
STORAGETECHNOLOGY

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

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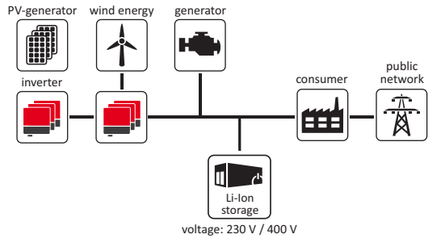
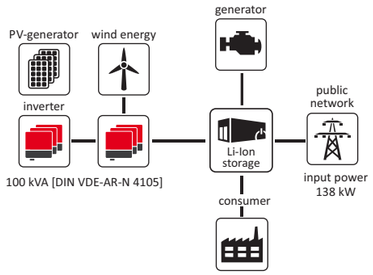
STORAGETECHNOLOGY

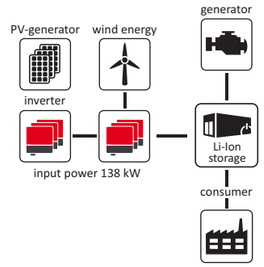
ON-GRID expert



ON-GRID easy

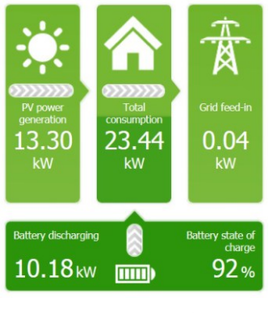


OFF-GRID



Battery System	TLC 120		TLC 250		TLC 370		TLC 500		TLC 1000	
Nominal capacity [kWh]	120		240		360		480		960	
Max. nominal charging power DC [kW]	36		36		54		72		144	
Max. nominal discharging power AC [kW]	36		36		54		72		144	
Depth of discharge [DoD]	70%	90%	70%	90%	70%	90%	70%	90%	70%	90%
Usable capacity [kWh]	84	108	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	8,000	5,000
Charging time at rated power [h]	2.4	3.0	4.7	6.0	4.7	6.0	4.7	6.0	4.7	6.0
Discharging time at rated power [h]	2.4	3.0	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		<3% per month	
Max. efficiency	90%		90%		90%		90%		90%	
Isolated operation and emergency mode										
Max. nominal discharge power AC [kW]	36		36		54		72		144	
Max. nominal discharge power AC [kW] 30 min	48		48		72		96		192	
Max. nominal discharge power AC [kW] 5 min	54		54		81		109		218	
Max. nominal discharge power AC [kW] 30 sec (on requ.)	66		66		99		132		264	
Battery system										
Electric charge (C1) [Ah]	2,400		4,800		7,200		9,600		19,200	
DC nominal power [V]	51.2		51.2		51.2		51.2		51.2	
System	3-phase		3-phase		3-phase		3-phase		3-phase	
Emergency power supply	integrated		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		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		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		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.							
General data										
Dimensions L x W x H [mm]	3,000 x 2,450 x 2,900		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]	4,800		8,500		10,500		13,000		2 x 13,000	
Installation place	outdoor		outdoor		outdoor		outdoor		outdoor	
Warranty			Power warranty of the battery: 10 years / product warranty of the battery: 2 years / Electronic: 5 years							
Certificates and approvals (batteries)			CE, MSDS, UN38.3							
Battery inverter			VDE-AR-N 4105, CE, FNN							
Disposal (batteries)			free							

SMA
Partner



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