

Highly flexible modular system

960																				
720																				
480																				
360																				
240																				
180																				
160																				
120																				
100																				
80																				
60																				
50																				
40																				
30																				
20																				
10																				
kWh	2,3	3,3	4,6	6,0	6,9	9,9	13,8	18	36	54	72	90	108	126	144	162	180	198	216	
kW																				
Sunny Island	1x 3.0M	1x 4.4M	1x 6.0H	1x 8.0H	3x 3.0M	3x 4.4M	3x 6.0H	3x 8.0H	Over 18kW of output, only Sunny Island's 8.0 with 6.0kW are depicted in the table.											



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



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



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.



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

TESVOLT GmbH
Am Alten Bahnhof 10
06886 Lutherstadt Wittenberg
Germany

FON +49 (0) 3491 45 95 16 10
info@tesvolt.com
www.tesvolt.com



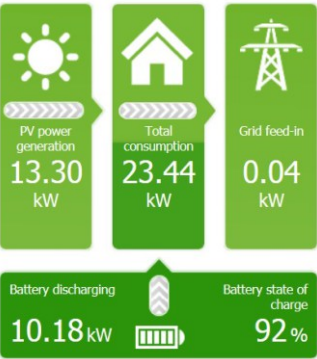
TESVOLT
STORAGETECHNOLOGY

The lithium storage system
for business and industry
Always a good match.



- For solar, wind, hydropower, biogas plants and CHP plants
- Active bidirectional battery management
- 10 year performance warranty
- Real battery back-up system (900 A)
- Peak load capping
- On- and off-grid
- Stand-alone grid function
- Zero feed-in

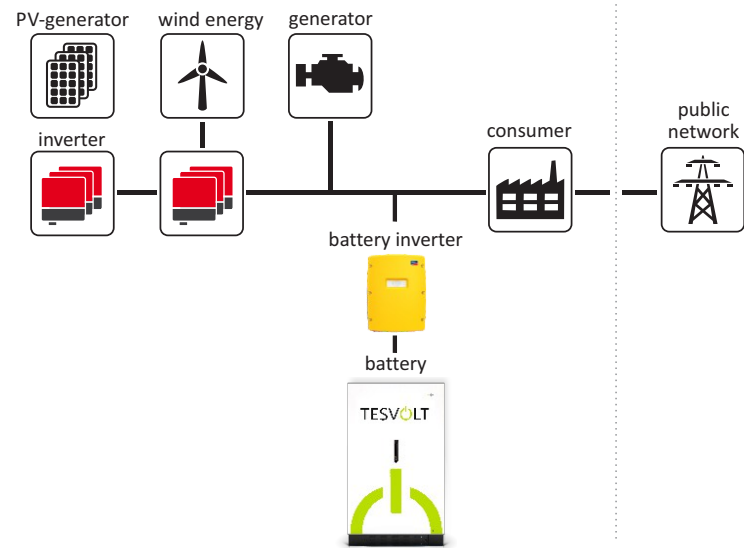




www.sunnyportal.com

En00257162 is a registered design of SMA Solar Technology AG.

OFF-GRID



ON-GRID

1-phase



3-phase



Multicluster



Battery System with SMA	Li 10		Li 20		Li 30	
Nominal capacity [kWh]	10		20		30	
Max. nominal charging power DC [kW]	4.6		4.6		4.6	
Max. nominal discharging power AC [kW]	max. 6.9		max. 13.8		max. 18	
Depth of discharge [DoD]	70%	90%	70%	90%	70%	90%
Usable capacity [kWh]	7	9	14	18	21	27
Number of cycles	8,000	5,000	8,000	5,000	8,000	5,000
Charging time at rated power [h]	1.6	2.0	3.1	4.0	4.7	6.0
Discharging time at rated power [h]	1.6	2.0	3.1	4.0	4.7	6.0
Self-discharge	< 3% per month		< 3% per month		< 3% per month	
Max. efficiency	90%		90%		90%	
Internal consumption (Battery & BMS) [W]	8		8		8	
Battery system						
Electric charge (C1) [Ah]	200		400		600	
Charge and discharge current [A] / max. 3 sec. [A]	150 / 300		300 / 900		375 / 900	
DC nominal power [V]	51.2		51.2		51.2	
System	1-phase / 3-phase		1-phase / 3-phase		1-phase / 3-phase	
Emergency power supply	optional		optional		optional	
General data (Battery cabinet)						
Dimensions (L x W x H) [mm]	500 x 600 x 1,000		780 x 950 x 1,900		780 x 950 x 1,900	
Total weight [kg]	230		520		640	

Security	Description	Installation conditions	Description
Certificates	TÜV / FNN / CE	Installation place	indoor
Connection authorization	VDE AR-N-4105	Protection class	IP 20 (indoor)
Lifetime (25°C) 90% DoD	5,000 cycles	Storage temperature	from -20°C to 60°C
Lifetime (25°C) 70% DoD	8,000 cycles	Working temperature	from 0°C to 40°C
Cell type	Lithium-iron-manganese-phosphate	Humidity	max. 70%

Li 40		Li 50		Li 60		Li 120	
40		50		60		120	
13.8		13.8		18		18	
max. 18		max. 18		max. 36		max. 72	
70%	90%	70%	90%	70%	90%	70%	90%
28	36	35	45	42	54	84	108
8,000	5,000	8,000	5,000	8,000	5,000	8,000	5,000
2.1	2.6	2.5	3.3	2.4	3.0	4.7	6.0
2.1	2.6	2.5	3.3	2.4	3.0	4.7	6.0
< 3% per month		< 3% per month		< 3% per month		< 3% per month	
90%		90%		90%		90%	
8		8		8		16	
800		1,000		1,200		2,400	
375 / 900		375 / 900		375 / 900		375 / 900	
51.2		51.2		51.2		51.2	
1-phase / 3-phase		1-phase / 3-phase		1-phase / 3-phase		1-phase / 3-phase	
optional		optional		optional		optional	
780 x 950 x 1,900		780 x 950 x 1,900		780 x 950 x 1,900		2 x (780 x 950 x 1,900)	
760		870		990		2 x 990	

Warranty (Battery)	Description
Warranty	2 years
Performance	10 years
Recycling	free returns

