

## ESS Z

The customized solution  
for your needs



E-MOBILITY



DRIVE  
SYSTEMS



ENERGY STORAGE  
SYSTEMS



POWER- AND  
GARDENTOOLS



INDUSTRIAL



MEDICAL

# Energy Storage Systems

## ESS Z

>> We deliver customized solutions for your needs - Flexibly adaptable due to the modular and compact design. <<

ESS Z is a new modular lithium-ion based energy storage system, which stores the surplus of the collected solar energy for later use. Energy can either be directed into the storage system or be fed into the public grid via an inverter. Energy is available as required: in the evening, at night, or on a cloudy day.

With the ESS Z System, consumers of solar power become more independent from electricity prices and use their home-made eco-electricity when they need it.

- Scalable up to 12 modules
- Maximum energy density
- Maximum discharge power up to 18 kW\*

### DEVELOPED ACCORDING TO THE STANDARDS AND USER GUIDELINES FOR STATIONARY ENERGY STORAGE SYSTEMS:

- VDE-AR-E 2510-50
- VDE-AR-E 2510-2
- DIN EN 62619 (Draft)
- FNN note (04/2016 version)

### TECHNICAL DETAILS

TECHNICAL DETAILS	ESS Z
Energy (nom. / usable)	8.69 kWh / 7.1 kWh
Nominal Voltage	54.75 V
Operating Voltage Range	45 – 63 V
Capacity (nom. / usable)	156.6 Ah / 129.6 Ah
Max. Constant Charge Current**	81 A
Max. Constant Discharge Current**	195 A
Max. Discharge Current	300 A (3 Sec.)
Max. Discharge Power*	18 kW
Weight	98 kg
Dimensions (W * H * D)	638 x 421 x 487 mm
Communication	CAN - SMA Ready
Battery Management System	Monitoring of cell voltage, cell temperature, current, derating and passive balancing
Energy Density (Weight)	90 Wh / kg
IP Protection Class	IP 21

\*depends on the respective inverter


\*\*depending also on SoC and temperature limitations

### ADVANTAGES OF BMZ-ENERGY STORAGE

- Store during the day; use day and night
- Independent from daylight and public grid
- Robust, safe and space saving
- Economic, cost-cutting and ecofriendly
- Modular installation:  
The storage capacity can be adapted to your needs



### A safe investment in your future

 Reduction of your energy costs

 Environmental friendly Technologie

 Lifetime up to 20 years

 Made in Germany

# Any questions?

Contact us, we will be pleased to advise you.



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