



GENERATION 3



ENERGY BUTLER

THE INTELLIGENT
MULTIFUNCTIONAL
STORAGE SYSTEM
11,5 - 30,7 kWh

THE STORAGE SOLUTION WITH ADDED VALUE

STACKABLE AND EXPANDABLE WITH INTEGRATED INVERTER FROM 11,5 kWh TO 30,7 kWh



INVERTERS IN THE SIZES
6, 8, 10 12, 15 AND 20 kW



IT HAS NEVER BEEN EASIER TO INSTALL A BATTERY STORAGE SYSTEM

The modular concept of the Energy-Butler is not only suitable for single-family homes, but can also be expanded for businesses or for multi-story residential buildings up to 307 kWh. The integrated inverter saves time during installation and space in the equipment room.

THE BENEFITS OF THE ENERGY BUTLER

- Modular and expandable system from 11,5 kWh up to 30,7 kWh
- Thanks to powerful inverters up to 20 kW, even larger larger consumers can be operated
- Guaranteed 10,000 charging cycles within 10 years
- Plug & Play: Inverter already integrated
- Maximum solar self-consumption
- High charging and discharging power
- grid-independent emergency power backup can be implemented
- Up to 10-fold cascable to a total of 307 kWh*.
- Safe cell technology (LFP lithium iron phosphate)



Also available with single-phase hybrid inverter in sizes 3, 4.2 and 6 kW. Perfect for offgrid systems like alpine cabins, forest huts etc. as well as for power grids in countries such as Italy, Portugal, Belgium, Denmark or African nations.

FLEXIBLE CHOICES ACCORDING TO YOUR NEEDS

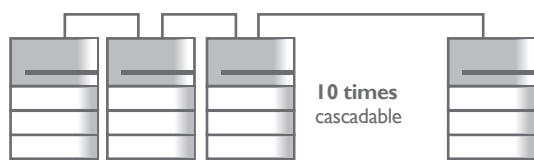
Hybrid Inverter	6kW-3P-3G25	8kW-3P-3G25	10kW-3P-3G40	12kW-3P-3G40	15kW-3P-3G40	20kW-3P-3G40
Max. usable DC input power	9 kWp	12 kWp	15 kWp	18 kWp	22,5 kWp	30 kWp
Max.AC output power	6,6 kW	8,8 kW	11,0 kW	13,2 kW	16,5 kW	22 kW
Max. DC input voltage	850 V					
MPPT voltage range	120 - 850 V	200 - 850 V				
Min. DC start voltage	135 V					
Max. DC start voltage	850 V					
MPPTracker / string connections per MPPT	2/1		2/2			
Nominal current per MPPT	15 A		30 A			
Max. DC charge and discharge current	25 A		40 A			
Max. DC charge and discharge power	6,0 kW	8,0 kW	10,0 kW	12,0 kW	15,0 kW	20,0 kW
Emergency power switchover time	< 10 mS					
Dimensions without battery (WxDxH)	698 x 356 x 613 mm					
Weight	55 kg		59 kg		62 kg	

Battery Module	3	4	5	6	7	8
Storage capacity*	11,5 kWh	15,3 kWh	19,2 kWh	23 kWh	26,8 kWh	30,7 kWh
Max. usable storage capacity	10,4 kWh	13,8 kWh	17,3 kWh	20,7 kWh	24,1 kWh	27,6 kWh
Nominal voltage	230 V	307 V	384 V	460 V	537 V	614 V
Dimensions in mm incl. inverter (WxDxH)	698 x 356 x 1255	698 x 356 x 1393	698 x 356 x 1531	698 x 356 x 1669	698 x 356 x 1807	698 x 356 x 1945
Weight	146 kg	188 kg	210 kg	252 kg	294 kg	336 kg

* at 90% DOD (=Depth of Discharge)

STORAGE SOLUTIONS FOR EVERY REQUIREMENT

Modular storage units and modules for easy transport and flexible concepts up to 403 kWh. With the two storage systems Energy-Butler and Energy-Block, M-TEC offers extendable solutions for single-family homes as well as commercial use. Modern systems such as the Energy-Butler or the Energy-Block can also be expanded on a modular basis at a later date.



* depending on the application with additional „cascade box“.

MODULAR DESIGN FOR EASY TRANSPORT





SUSTAINABLE MANAGEMENT OF ENERGY FOR A CONNECTED WORLD



In addition to electricity for households and businesses, we will need more and more electricity for our mobility in the future. But renewable energy sources can also be used for heating or cooling rooms, and to provide hot water. Modern storage solutions make consumption more independent from production time.

E-SMART makes all these energy flows visible, from the power grid to photovoltaics, battery storage, electromobility, heat pumps and electric heaters. Via a simple and clear visualization, energy consumption and also energy production become controllable. In addition to the distribution of energy, the savings are also displayed on a daily, monthly and annual basis.

In addition to innovative solutions, M-TEC also offers a wide range of training courses and workshops for partners.

FOR SAFETY AND INDEPENDENCE

ACHIEVE A DEGREE OF SELF-SUFFICIENCY OF 70% AND MORE AND BE PREPARED FOR AN EMERGENCY



SELF-SUFFICIENT BACK-UP IMPLEMENTABLE



BLACKOUT WHAT IF THE LIGHT GOES OUT

A complete failure of the power grid is one of the great horror scenarios of our time. If you want to consume energy from the storage system in the event of a complete outage, the system must have implemented a backup power solution. In order to be able to produce electricity, the inverter of the photovoltaic system itself must be supplied with electricity. This usually comes from the public power grid.

A modern backup power solution allows the inverter to automatically restart with power from its own storage in the event of a blackout. The M-TEC storage solutions are prepared for the integration of backup power solutions.

But even without a blackout, you can benefit from many advantages with an intelligent storage solution.



THE E-SMART GENERATION



More and more people are recognizing the opportunities of a fully integrated energy system. This smart combination opens up significant savings potential

- Own power supply
- Sustainable production of heat and cooling
- Cost reduction through electromobility

With M-TEC Energy Systems you use a complete system for the production and management of energy.

Distribution Partner

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