

SELF-CONSUMPTION WITH STORAGE KIT

# TM-Systems

Don't depend on anyone. Produce your own energy.

Produce your own electrical energy with our complete stand-alone installation kits and feel the power of energy independence! Tamesol, with more than 12 years of experience in the solar energy industry, has created the perfect combination of components to make highly efficient and profitable solar kits.



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Set up of **3.2, 6.9 & 9.5 KWp**



Injection to grid possible

1  
2-3

3 Operating modes



High invest return

# SELF CONSUMPTION

WITH STORAGE KIT

# TM-Systems



## KIT 3.18kWp / TM-SKST3.25

Item model	Description	Quantity
<b>Solar module</b> TM-P660265	<b>Pmax:</b> 265 Wp <b>Voc:</b> 37.46 V <b>Isc:</b> 9.37 A <b>Efficiency:</b> 16.28% <b>Size:</b> 1640x992x40mm	13
<b>Inverter</b> Hybrid 3.0 KW	<b>Continuous Power:</b> 3 kW <b>Output Voltage:</b> 230 V / 50 Hz	1
<b>Structure</b> Anodized Aluminium	120 km/h wind loading rating Think ness over 3mm Degree (10-15, 15-30, 30-60)	1
<b>Cable / Connector</b>	6mm DC Cable / MC4	40 / 4
<b>Accumulator</b> 18 kWh maintenance free	Specification EUROBAT long life <b>Size:</b> 790x433x585m aprox.	1

N° kits per HC Container 40': 42 | Container 20': 20

## KIT 6.89 kWp / TM-SKST6.9

Item model	Description	Quantity
<b>Solar module</b> TM-P660265	<b>Pmax:</b> 265 Wp <b>Voc:</b> 37.46 V <b>Isc:</b> 9.37 A <b>Efficiency:</b> 16.28% <b>Size:</b> 1640x992x40mm	26
<b>Inverter</b> Hybrid 6.0 KW	<b>Continuous Power:</b> 6 kW <b>Output Voltage:</b> 230 V / 50 Hz	1
<b>Structure</b> Anodized Aluminium	120 km/h wind loading rating Think ness over 3mm Degree (10-15, 15-30, 30-60)	1
<b>Cable / Connector</b>	6mm DC Cable / MC4	80 / 8
<b>Accumulator</b> 36 kWh maintenance free	Specification EUROBAT long life <b>Size:</b> 790x433x585m aprox.	1

N° kits per HC Container 40': 21 | Container 20': 10

## KIT 9.54kWp / TM-SKST9.5

Item model	Description	Quantity
<b>Solar module</b> TM-P660265	<b>Pmax:</b> 265 Wp <b>Voc:</b> 37.46 V <b>Isc:</b> 9.37 A <b>Efficiency:</b> 16.28% <b>Size:</b> 1640x992x40mm	36
<b>Inverter</b> Hybrid 6.0 KW	<b>Continuous Power:</b> 6 kW <b>Output Voltage:</b> 230 V / 50 Hz	1
<b>Structure</b> Anodized Aluminium	120 km/h wind loading rating Think ness over 3mm Degree (10-15, 15-30, 30-60)	1
<b>Cable / Connector</b>	6mm DC Cable / MC4	120 / 12
<b>Accumulator</b> 54 kWh maintenance free	Specification EUROBAT long life <b>Size:</b> 790x433x585m aprox.	1

N° kits per HC Container 40': 14 | Container 20': 6

## FEATURES

- ✓ Remote monitoring via web server. Control from any device.
- ✓ International certificates to ensure the best quality and performance.
- ✓ Manufacturing process certified under the ISO 9001 standards.
- ✓ High module conversion efficiency up to 15.37%, through superior manufacturing technology.

## WARRANTY

European Warranty. See warranty conditions for further details.

1. Lineal performance warranty 30 years.
2. Anodized aluminium structure guaranteed for useful life of installation.

## SELF-CONSUMPTION RATIO ENCRASE

Aprox. evaluation of the % of self-consumption in a conventional housing.

WITHOUT STORAGE	<b>Grid:</b> 40%	<b>Generated:</b> 60%
WITH STORAGE	<b>Grid:</b> 5%	<b>Generated:</b> 95%

## OPERATING MODES

### Self-consumption with zero injection

This operation mode is directed to on-grid installations with renewable sources, with the purpose of minimizing the consumption from the grid. If the energy generation is larger than the demand, the excess can be used to charge the batteries and satisfy the demand when the renewable source is not available, increasing the self-consumption ratio. This operation mode in addition is able to implement the peak-shaving strategy reducing the peaks of demand and save in the electricity bill.

### Off-grid mode

The Tamesol kit generates an isolated AC network and acts as system manager, ensuring a balance between the generation, consumption and storage system. To achieve this, controls the flow of batteries based on the situation at all times. The auxiliary power generation (generator or public network) is connected only when the state of charge of the batteries is below a certain level programmable.

### Back-up mode

In this mode the batteries remain charged so that in the event of a network failure the energy stored in the batteries can be used to supply the loads. If renewable energy sources are generating and the energy produced is greater than the demand, the excess can be injected to the grid. Moreover, in this mode also can be implemented peak-shaving strategies in order to decrease or eliminate consumption peaks and reduce the contracted power.

**Tamesol**  
ENERGÍA PARA VIVIR

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