SOLAR KIT MODEL: SISMA-T11000



11000 Solar PV Hybrid Kit1584 kWh per month production52800 Wh per day production

Quantity Description

- 45 Solar panels 250W Polycrystalline
- 1 Solar Inverter Tripower 12000TL
- 1 Support structure for solar panels
- 3 15m DC cables 1x5.6mm R1000 2 core PV panel to charge controller with thimble at ends
- 3 5m AC cable 1x5,6mm R1000 2 core inverter to main breaker with thimble at ends
- 1 1 installation tool kit

SYSTEM WARRANTY*:

Solar modules production: 25 years Module support structure: 25 years

Inverters: 5 years standard, (extendable to 25 years)

Quality of Components:

Manufactured in EU.

All components in the kit are high quality with CE standard

Description

SITECNO solar kits for hybrid system with diesel generator, batteries and grid are complete solutions which also provide energy in all unforeseen situations that may lead either by time, by circumstances of outage and any situation. It is a complete solution for saving your energy costs and fuel.

Kits advantages

- Easy to organize the order through a unique code and provider
- Compatibility between all components secured
- Measurement of energy flows installation
- CE Highest quality components
- Support pre (Combiner Box) enclosures configured to facilitate mounting installation.
- Possibility of dimensioning variants references listed kits for other power settings (on request)

Function of the system

- 1. The place uses the solar energy produced by photovoltaic modules during the hours of sun, plus the excess energy store in the batteries.
- 2. The diesel generator is the last option when the load does not get solar energy, and there is load shedding in the grid. In these situations the location consumes energy from diesel generator.

Modular system

These systems are module type and can be installed as per your space and requirement. You can ask for additional services as state-of-the-art designing, drawings, engineering and installation of your projects.

Solar kits with modular system can be extended to MW projects

Solar Kit Applications:

Schools
 Hospitals
 Hotels

Restaurants
 Gymnasium
 Resorts
 Scout camps
 Petrol Stations

Electric vehicle charging stations
 Parking Areas

Gardens
 Multi story buildings
 Old houses

Markets
 Shopping malls
 Public service offices

Administration buildings

Additional Accessories

You can ask for additional accessories for extension at your installation or shifting of your system to another place.

Installation Training Services

Training of installation is offered for technical persons on time to time basis. Schedule of the training session announce on web site.

Operation and maintenance services

Operation and maintenance services offered for the valued customers for efficient operation of the system. Customers may ask for the O&M service contract with the company.

Monitoring services

In order to monitor solar power systems, data can be transmitted to remote locations. For communication between the solar inverter and monitoring devices, SITECNO provides two basic choices: Wireless or Blue-tooth and wired variants.



Polycrystalline Solar Module 250W

SITECNO Solar Photovoltaic Panels stand for quality, durability and most importantly, high performance. Our experience, capacity of research, continuing development and improvement have turned us into a company recognized in the sector by the high value offered to our clients.

Due to their engineered hollow section frame and its 4mm special textured glass with AR coating, SITECNO modules meet the maximum demands with regard to stability and corrosion resistance.

Thanks to their high performance SITECNO modules are prepared for changes in legislation. These panels will produce 5% more than any other of the same features.

The performance warranty is for 25 years, after 12 years, modules still produce a minimum 90% of their nominal performance. After 25 years module still produce a minimum 80% of their nominal performance.

Electrical Characteristics:

MODEL	SI-P60-250
Nominal Power (Pmax)	250W
Open Circuit Voltage (VOC)	37,5V
Short Circuit Current (ISC)	8,76A
Voltage at Nominal Power (Vmp)	30,3V
Current at Nominal Power (Imp)	8,24A
Module Efficiency (%)	15,20

Mechanical Characteristics:

Cell type	Polycrystalline156x156mm	
Number of cells	60 (6x10)	
Module dimension	1660 x 990 x 50mm	
Weight	20kg	
Front cover	TSG low-iron tempered glass	
Frame	Aluminium alloy	
Junction box	IP65, 3diodes	

Cable length 1200mm (+), 800mm(-) Connector PV-JM601

Temperature Coefficients:

Nominal Operating Cell Temperature (NOCT)	25°C ±2°C	
Temperature Coefficients of Pmax	-0.43% / °K	
Temperature Coefficients of Voc	-0.31% / °K	
Temperature Coefficients of Isc	0.04% / °K	
Operating Temperature	-40 °C to +85 °C	
Maximum System Voltage	1000V DC	
Reverse current load	15A	
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TRIPOWER 12000TL

Economical

- Maximum efficiency of 98.2 %
- SMA OptiTrac Global Peak

MPP tracking for best MPP tracking efficiency

• Bluetooth® communication

Reliable

Triple protection with Optiprotect:
 Electronic string fuse
 Self-learning string failure detection
 DC surge arrester (Type II) can be integrated

Flexible

- DC input voltage up to 1,000 V
- Integrated grid management functions
- Custom plant design with Optiflex

Simple

- Three-phase feed-in
- Cable connection without tools
- SUNCLIX DC plug-in system
- Easily accessible connection area



The three-phase inverter for easy plant design Full of pioneering technology: highly flexible plant design with the three-phase Sunny Tripower inverter. Thanks to Optiflex technology, two MPP inputs and a broad input voltage range, it is suited to almost any module configuration. It meets any requirement such as reactive power supply, grid support thus reliably participating in grid management. The safety concept Optiprotect with its self-learning string-failure detection, electronic string fuse and integrable DC surge arrester type II, ensures maximum availability.

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 $\begin{array}{lll} \text{Max. DC power } (@ \cos \phi = 3) & 12250 \text{ W} \\ \text{Max. input voltage} & 1000 \text{ V} \\ \text{MPP voltage range / rated input voltage} & 380 \text{ V} ... 800 \text{ V} / 600 \text{ V} \\ \text{Min. input voltage / initial input voltage} & 150 \text{ V} / 188 \text{ V} \\ \text{Max. input current input A / input B} & 22 \text{ A} / 11 \text{ A} \\ \text{Max. input current per string input A / input B} & 33 \text{ A} / 12.5 \text{ A} \\ \text{Number of independent MPP inputs / strings per MPP input} & 2 / \text{ A:4; B:1} \\ \end{array}$

Output (AC)

Rated power (@ 230 V, 50 Hz) 12000 W Max. apparent AC power 12000 VA Nominal AC voltage / range 3 / N / PE, 230 V / 380 V / 400 V AC power frequency / range 50 Hz, 60 Hz / -5 Hz ... +5 Hz Rated power frequency / rated grid voltage 50 Hz / 230 V Max. output current 16 A Power factor at rated power 1 0 overexcited ... 0 underexcited Displacement power factor, adjustable

Efficiency

Max. efficiency / European weighted efficiency 98.1 % / 97.7 %

Protective devices

DC disconnect device

Ground fault monitoring / grid monitoring

OC reverse polarity protection /

AC short-circuit current capability /

galvanically isolated • / • / –

All-pole-sensitive residual-current monitoring unit

Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1) I/III

General data

Dimensions (W / H / D) 665 / 690 / 265 mm (26.2 / 27.2 / 10.4 inches)

Weight 59 kg (130.07 lb)

Operating temperature range $-25^{\circ}\text{C} \dots +60^{\circ}\text{C} (-13^{\circ}\text{F} \dots +140^{\circ}\text{F})$

Noise emission (typical) 51 dB(A) Self-consumption (night) 1 W

Topology Transformerless
Cooling concept Convection

Degree of protection (according to IEC 60529) IP65 Climatic category (according to IEC 60721-3-4) 4K4H

Maximum permissible value for relative humidity (non-condensing) 100%

Features

DC connection / AC connection SUNCLIX / Spring clamp terminal

Display Graphic Interface: RS485, Bluetooth, Speedwire/Webconnect 0/ •/ •

Warranty: 5 / 10 / 15 / 20 / 25 years • / 0 / 0 / 0/

Certificates and approvals (additional on request) AS 4777, BDEW 2008, C10/11:2012, CE, CEI 0-16,

CEI 0-21, EN 504381, G59/3, IEC 61727 (MEA/PEA),

IEC 62109-1/2, NEN EN 50438, PPC, PPDS,

RD 1699, RD 661/2007, SI4777, UTE C15-712-1,

VDE 0126-1-1, VDE-AR-N 4105

● Standard features ○ Optional features — Not available, Data at nominal conditions



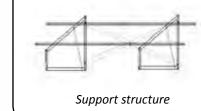
Design

Modular type Technical feature Aluminium

25 years warranty Tamper proof nut bolt

100% recyclable material A2 Stainless steel bolts

2,49kg/m wind, snow Weight Loads Test certificate **CE Certifies**



Cable:

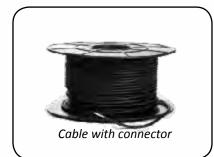
· Model: SI-MC4-F

· Rated Voltage: TUV 1500V DC / UL 600V DC

20-30A

Rating Current:Cable Size: 2.5-4.0-6.0, 10-12-14AWG · Proof Voltage: TUV 1500V AC, 1 min

· Protection Class: Class II ·· Temperature Range: -40 to 85°c · Flame class: UL94-V0

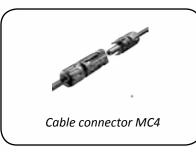


Connector:

Flexible conductor, class 5 Maximum service temperature: 120°C Estimated lifetime 30 years.

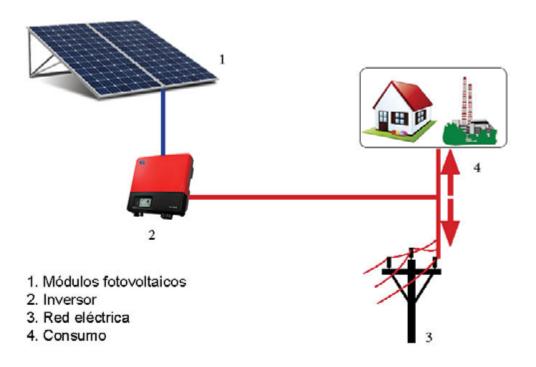
UV Resistant UV Resistant

Grease & mineral oils resistance: excellent Grease & mineral oils resistance: excellent



INSTALLATION APPLICATION

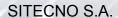
- Instant self-consumption system with feed in grid (on grid)
- Instant self-consumption system without feed in to the grid (on grid)
- Solar system hybrid with diesel generator (on grid)











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