

SOLAR KIT MODEL: SISMA-2000



2000 Solar PV Kit
288 kWh per month production
9600 Wh per day production

<i>Quantity</i>	<i>Description</i>
8	Solar panels 250W Polycrystalline
1	Solar Inverter 2100TL
1	Support structure for solar panels
1	15m DC cables 1x5.6mm R1000 2 core PV panel to charge controller with thimble at ends
1	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
- Restaurants
- Gymnasium
- Electric vehicle charging stations
- Gardens
- Markets
- Administration buildings
- Hospitals
- Resorts
- Service centres
- Multi story buildings
- Shopping malls
- Hotels
- Scout camps
- Petrol Stations
- Parking Areas
- Old houses
- Public service offices

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.

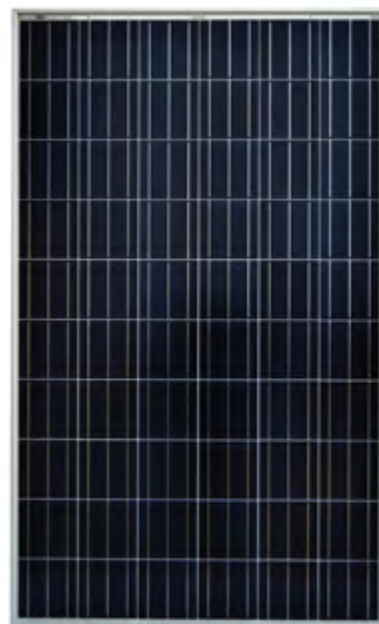
The performance warranty is for 25 years, after 12 years, modules still produce a minimum 90% of their nominal performance. After 25 years module still produce a minimum 80% of their nominal performance.

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	Polycrystalline 156x156mm
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, 3 diodes
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

SUNNY BOY 2100TL ST

OVERVIEW

Combining a wide input voltage and input current range, the transformerless Sunny Boy can be connected to nearly all standard crystalline PV modules. As a proven entry-level model, its efficiency is first-class. Its low weight and robust enclosure make installation easy, both indoors and outdoors. With its three power classes, it is the ideal inverter for smaller PV systems.

Efficient

Efficiency of up to 96 %

Transformerless

Complete monitoring solution thanks to integrated Speedwire/
Webconnect interface*

Safe

Integrated ESS DC load-break switch (optional)

Reliable

Proven technology

Maintenance free, thanks to convection cooling

Simple

SUNCLIX DC plug-in system

Easy commissioning of the integrated Speedwire/Webconnect interface*



TECHNICAL DESCRIPTION

Input (DC)

Max. DC power (@ $\cos \varphi = 1$)

2200 W

Max. input voltage

600 V

MPP voltage range / rated input voltage

200 V ... 480 V / 400 V

Min. input voltage / initial input voltage

125 V / 150 V

Max. input current input A / input B

12 A

Max. input current per string input A / input B

12 A

Number of independent MPP inputs / strings per MPP input

1 / 2

Output (AC)

Rated power (@ 230 V, 50 Hz)

1950 W

Max. apparent AC power

2100 VA

Nominal AC voltage / range

220 V, 230 V, 180-260 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

11 A

Power factor at rated power

1

Displacement power factor, adjustable

0.8 overexcited ... 0.8 underexcited

Efficiency
Max. efficiency / European weighted efficiency 96 % / 95.2 %

Protective devices

DC disconnect device ○
Ground fault monitoring / grid monitoring ● / ●
DC 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) 440 / 339 / 214 mm (17.3 / 13.3 / 8.4 inches)
Weight 16 kg (35.3 lb)
Operating temperature range -25°C ... +60°C (-13°F ... +140°F)
Noise emission (typical) 33 dB(A)
Self-consumption (night) 0.1 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 ○ / ○ / ●

Warranty: 5 / 10 / 15 / 20 / 25 years ● / ○ / ○ / ○ / ○ /

Certificates and approvals (additional on request) AS 4777, C10/11, CE, CEI 0-21, EN 504382, G83/1-1, IEC 62109-1/-2, NRS 097-2-1, PPC, PPDS, RD1699, RD 661/2007, UTE C15-712-1, VDE-AR-N 4105, VDE0126-1-1

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



Design

Technical feature

Weight

Loads

Test certificate

Cable:

- Model:
- Rated Voltage:
- Rating Current:
- Cable Size:
- Proof Voltage:
- Protection Class:
- Temperature Range:
- Flame class:

Connector:

Flexible conductor,
Maximum service temperature:
Estimated lifetime
UV Resistant UV Resistant
Grease & mineral oils resistance:
Grease & mineral oils resistance:

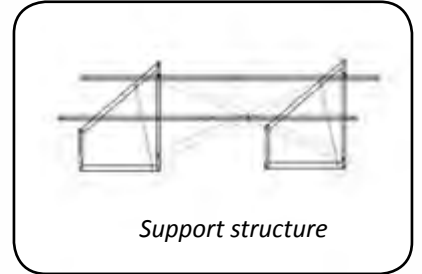
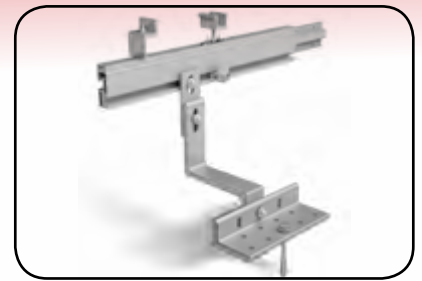
Modular type

Aluminium
25 years warranty
Tamper proof nut bolt
100% recyclable material
A2 Stainless steel bolts
2,49kg/m
wind, snow
CE Certifies

SI-MC4-F
TUV 1500V DC / UL 600V DC
20-30A
2.5-4.0-6.0, 10-12-14AWG
TUV 1500V AC, 1 min
Class II
-40 to 85°C
UL94-V0

class 5
120°C
30 years.

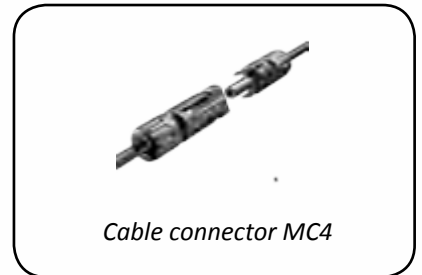
excellent
excellent



Support structure



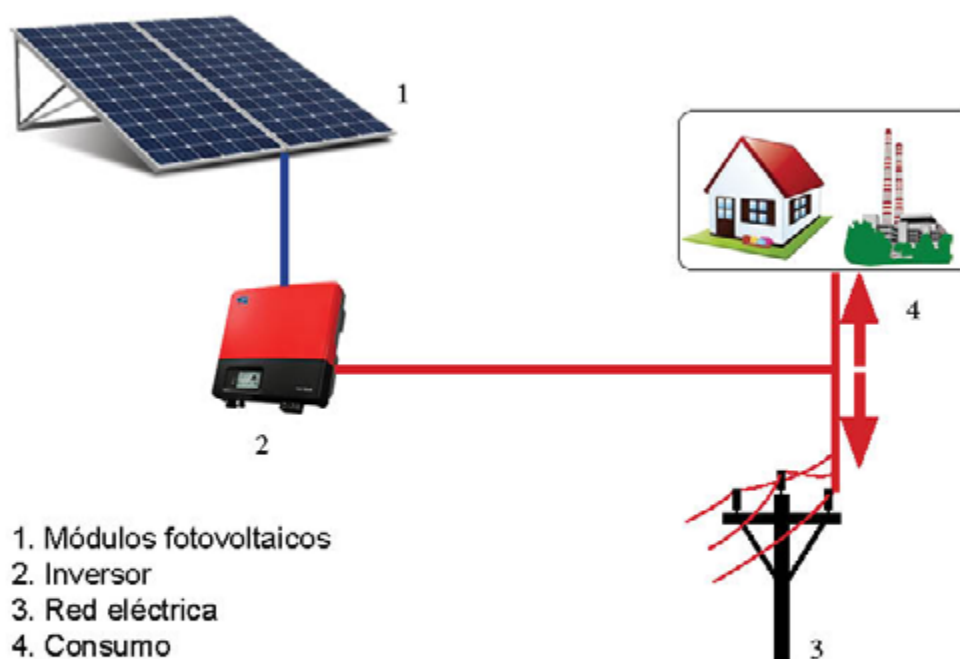
Cable with connector



Cable connector MC4

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)





Distributor authorize:

SITECNO S.A.
C/ Can balmes 1, Zona industrial,
Santa. M^a. de Palautordera,
08460 Barcelona, Spain.
Tel: +34 938482544
Fax: +34 938480439
info@sitecnosolar.eu
www@sitecnosolar.eu