SOLAR ENERGY KIT MODEL: SEM-C1HAT100K

Introduction:

SITECNO solar energy kit is hybrid PV system with batteries or off grid applications, which provide energy in all unforeseen circumstances. A complete solution which generates electrical energy from sun light for self-consumption and feed surplus energy in to the batteries and also in to the grid as per legislation of the country. Solar PV panels generates DC electric power when exposed in sun light. High efficiency MPPT Hybrid PV inverter converts DC electric power in to AC electric power for consumption in load. Grid power supply is connected in parallel circuit with PV inverter AC output. Solar generated electric power has first priority for consumption in load and surplus power store in battery bank. If load is higher than solar generation power than additional power can be retrieved from the grid supply if required. If the grid is off or unstable than additional power will be retrieved from the battery bank. Different battery bank packages are available. Solar energy system can be hybrid with diesel generator for the operation as PV-diesel hybrid system. Solar energy system is useful for saving in electricity bill, saving in diesel fuel consumption and source of income by selling surplus energy to the grid.

PV System output:

- 100000 Wp Solar hybrid Kit PV Power
- 480 kWh Energy generation per day (average)
- 14400 kWh Energy generation per month (average)
- 130560 VAH 1 Hour full load backup battery bank

Equipment and components list:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>250 Wp Solar photovoltaic Si-polycrystalline panels</td>
</tr>
<tr>
<td>5</td>
<td>20 kW Solar Inverter SUN3PLAY 20TL</td>
</tr>
<tr>
<td>1</td>
<td>100 kW Battery inverters with built-in battery charge controller</td>
</tr>
<tr>
<td>128</td>
<td>170 Ah Battery bank power.com GEL-ESS 6V @C10 or equivalent</td>
</tr>
<tr>
<td>400</td>
<td>unit Aluminium support structure for solar panels</td>
</tr>
<tr>
<td>830</td>
<td>m DC cables 6mm R1000 PV panel to inverter</td>
</tr>
<tr>
<td>4</td>
<td>m DC cables R1000 battery to hybrid inverter</td>
</tr>
<tr>
<td>128</td>
<td>m DC cables battery interconnection</td>
</tr>
<tr>
<td>128</td>
<td>unit DC cables battery interconnection thimble</td>
</tr>
<tr>
<td>5</td>
<td>m AC cable 2 core inverter to main breaker</td>
</tr>
<tr>
<td>46</td>
<td>pair Solar connector MC4</td>
</tr>
<tr>
<td>1</td>
<td>set Aluminium support structure installation tools</td>
</tr>
<tr>
<td>1</td>
<td>set Instructions manual for installation</td>
</tr>
<tr>
<td>1</td>
<td>set Electrical design layout</td>
</tr>
</tbody>
</table>

SYSTEM WARRANTY*:

- Solar modules production: 25 years
- Aluminium support structure: 10 years
- Inverter: 5 years standard, (extendible to 25 years)
- Battery Inverter: 3 years standard, (extendible to 25 years)
- Battery: GEL: 2 years (life 10 years) / AGM (GEL -ESS): 1 year (life 15 years)

Quality of Components:

Manufactured in EU.
All components in the kit are high quality with CE standard.
**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.
- Aluminium support structure with pre-design to facilitate plug & play mounting installation.

**Function of the system**

1. The load consume the solar energy produced by photovoltaic modules during the day hours time, plus the excess energy can be stored in to batteries and also feed in to the grid as per legislation of the country.

2. The diesel generator connection is an other option when the load does not get enough solar energy, battery bank is at low level and there is instability in the grid supply network. In these situations the customer consumes energy from diesel generator.

3. Battery bank can be increased according to the requirement of autonomy time.

**Modular system**

These systems are modular 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 size projects

**Solar Kit Applications**

- Schools
- Restaurants
- Gymnasium
- Gardens
- Markets
- Electric vehicle charging stations
- Administration buildings
- Hospitals
- Resorts
- Service centres
- Multi story buildings
- Shopping malls
- Shopping malls
- Petrol Stations
- Old houses
- Public service offices
- Parking Areas

**Additional Accessories**

Ask for additional accessories for extension at your installation or shifting of your PV 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 O&M service contract with the company.

**Monitoring services**

In order to monitor solar power generation and consumption from PV system, 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.
ANNUAL ENERGY PRODUCTION by SOLAR ENERGY KIT MODEL: SEM-CIHAT100K
(Annual global direct irradiation 2.97 kWh/m² in Madrid. Ref: source NASA-SSE)

INSTALLATION APPLICATION

- Solar system with batteries and hybrid with external generator (on grid)
- Solar system hybrid with batteries (off grid)
- Solar system with batteries and hybrid with external generator (off grid)
1. Photovoltaic modules
2. Inverters
3. Batteries
4. Consumption
5. Diesel generator
6. Grid
7. Battery inverter
POLYCRYSTALLINE SOLAR PANEL 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-60P250
- Nominal Power (Pmax) 250W
- Open Circuit Voltage (V_{OC}) 37,5V
- Short Circuit Current (I_{SC}) 8,76A
- Voltage at Nominal Power (V_{mp}) 30,3V
- Current at Nominal Power (I_{mp}) 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 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
The SUN 3Play TL M inverters have been designed to maximize the power generation and also to facilitate user access to the PV plant. This solar inverter family is valid for low kilowatt residential applications, and also for decentralized commercial and industrial systems rated up to several hundred kilowatts. Thanks to this High efficiency system and to the use of innovative electronic conversion topologies, values of up to 98.5% can be achieved. Every inverter can be accessed from either a remote PC or on site from the inverter front touch key-pad through its LCD screen. The display also features a number of LEDs to indicate the inverter operating status.

**BENEFITS**
- The best possible price.
- High efficiency rates.
- Easy maintenance.
- Standard 5 year warranty, extendible for up to 25 years.

**MAIN FEATURES**
- Compatible with 30 mA RCDs.
- Double-MPPT system.
- Available from 10 up to 33 kW.
- 98% maximum efficiency.
- SiC Technology inside.
- Inverter updating by the user through a SD memory card.
- USB communications supplied as standard.
- Software SUN Manager for PV plant access and data registration.
- Software SUN Monitor for PV plant monitoring.
- LCD Display.
- Easy maintenance.
- Suitable for indoor and outdoor installations (IP65).
- Display-configurable potential free contact, to indicate insulation fault or grid connection.
- Compact design.
- Language, Country Code and rated voltage configurable by display.

The SUN 3Play inverters feature have been designed to obtain the 3P maximum power from the PV array and to facilitate user access to the PV installation. Thus, this single-phase inverter family features renewed benefits that place them at the forefront of today’s market.

**PROTECTIONS**
- Reverse polarity.
- Short circuits and overloads at the output.
- Anti-islanding with automatic disconnection.
- Insulation faults.

**OPTIONAL ACCESSORIES**
- DC switch.
- Digital inputs.
- Self-consumption kit.
- DC and AC varistors
- DC Fuses
- DC surge arrester
- Inverter communication kit via RS-485, Ethernet, Bluetooth, Wi-Fi or GSM / GPRS,
- SUN Weather-box for meteorological values measurement and registration.
PV INVERTER TECHNICAL SPECIFICATION

**Input (DC)**
- Recommended PV array power range(1) 20.6 - 26.8 kW
- Voltage range MPP 560 - 820 V
- Min. voltage for Pnom at rated Vac 560 V
- Maximum voltage(2) 1,000 V
- Maximum current(3) 37 A
- Inputs for the S and S+ versions 1
- Inputs for the P and P+ versions(4) 5
- MPPT 1

**Output (AC)**
- Rated power 20 kW
- Max. temperature at rated power(5) 55 ºC
- Maximum current 29 A
- Rated voltage 400 V
- Voltage range 277 - 528 V
- Frequency 50 / 60 Hz
- Phi Cosine(6) 1
- Phi Cosine adjustable Yes. Smax=20 kVA
- THD <3%
- Efficiency Maximum efficiency 98.5%
- Euroefficiency 98.3%

**General Information**
- Refrigeration system Forced ventilation
- Air flow 200 m3/h
- Stand-by consumption(7) 10 W
- Consumption at night 1 W
- Ambient temperature -25 ºC to 65 ºC
- Relative humidity (non-condensing) 0 - 95%
- Protection class IP65
- Marking CE
- EMC and security standards
  - EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12, EN 62109-1, EN 62109-2, IEC62103, EN 50178, FCC Part 15, AS3100
- Grid connection standards

**Notes:**
1. Depending on the type of installation and geographical location
2. Must not be exceeded under any circumstances. Consider the voltage increase of the ‘Voc’ at low temperatures
3. The maximum current per PV connector is 11 A
4. Optionally, the DC inputs could be duplicated
5. For each ºC of increase, the output power will be reduced at the rate of 1.8%
6. For Pout>25% of the rated power
7. Consumption from PV field
8. Related only to inverters up to 16 A.
SUN STORAGE POWER 85 kW

SUN STORAGE Power battery inverter is a three-phase, two way unit that can either be used in off-grid systems or connected to the general supply network. This inverter offers a high power density in a single power block, providing a choice of configurable operating modes.

**Battery management**
The SUN STORAGE Power features high-tech battery management in order to maximise the useful life of the storage system. The battery temperature can be monitored at all times, guaranteeing a correct operation.

**Back-up genset**
Furthermore, the SUN STORAGE Power permits the connection of a back-up generator, should this be necessary. It is possible to startup the inverter by using the genset, in order to charge the batteries.

**Operating modes:**

**Stand-alone mode**
The SUN STORAGE Power generates a stand-alone AC grid and acts as a grid manager, guaranteeing the correct balance between generation, consumption and the storage system. To achieve this, the SUN STORAGE Power is able to control the energy flows between the grid and the batteries, based on the status at any given time. The SUN STORAGE Power inverter allows a solar energy source to be integrated into the grid, through the use of SUN inverters.

**Back-up mode**
This operating mode has been designed for grid-connected systems, where grid outages are long and frequent, meaning that a back-up power source is required. The SUN STORAGE Power inverter operates through a connection to the AC grid. In order to guarantee a power source, the inverter maintains the batteries charged. During a grid outage, the battery inverter generates the AC network and the energy stored in the batteries is used to power the loads. If any renewable energy sources are connected to the grid and the energy generated is greater than that demanded, then the surplus could be injected into the grid. Furthermore, this mode also makes it possible to implement peak shaving strategies, in order to shave consumption peaks and reduce the contracted power.

**Self-consumption mode**
This operating mode is conceived for grid-connected systems with renewable energy sources, in order to minimise grid consumption. If the energy generated is greater than demand, then any surplus energy could charge the batteries or, if they are fully charged, the energy could be injected into the grid. If the loads demand more energy than that produced by the renewable sources, then the batteries would cover this demand, increasing the self-consumption ratio. This mode also allows for the implementation of peak shaving strategies in order to shave consumption peaks and lower the electricity bill.

**PROTECTIONS:**
- Galvanic isolation between the DC, and AC sides.
- Short-circuits and overloads at the output.
- Insulation faults.
- DC switch.
- AC circuit breaker.
## BATTERY INVERTER TECHNICAL SPECIFICATION

### Batteries (DC)
- **Nominal power**: ≥ 103 kW
- **Voltage range**: 330 - 820 V
- **Minimum voltage** (1): 1,000 V
- **Maximum current**: 318 A
- **Inputs**: 4
- **Type of battery**: Lead, Ni-Cd, Li-ion

### Input (AC)
- **Rated voltage**: 400 V
- **Voltage range**: 320-480 V
- **Frequency**: 50 / 60 Hz
- **Frequency range**: 40 -70 Hz
- **Charging current range**: 0 - 160 A
- **Maximum power**: 250 kW

### Output (AC)
- **Rated power** (2): 100 kW
- **Maximum current**: 160 A
- **Rated voltage**: 400 V
- **Frequency**: 50 / 60 Hz

### Efficiency
- **Maximum efficiency**: 96.8%

### General Information
- **Galvanic isolation**: Yes
- **Air flow**: 2600 m³/h
- **Stand-by consumption**: 30 W
- **Ambient temperature**: -20 ºC to +65 ºC
- **Relative humidity (non-condensing)**: 0 - 95%
- **Maximum altitude** (3): 3000
- **Protection class**: IP20
- **Weight**: 1,162 kg

### Compliance with standards:
- EN 61000-6-1, EN 61000-6-2, EN 61000-6-4, EN 61000-3-12, EN 61000-3-11, EN 62109-1, EN 62109-2, IEC 62103, EN 50178, FCC Part 15, EN 50438, IEC 62116, IEC 61727, VDE 0126-1-1

### Notes:
1. Above 820 V, the maximum current decreases gradually
2. AC Power for 40 ºC ambient temperature
3. Over 1,000 m temperature for rated power is reduced at the rate of 4.5 ºC for each 1,000 m.

### ACCESSORIES SUPPLIED AS STANDARD:
- RS-485 communication.
- CAN communication for smart batteries.
- Configurable potential free inputs.
- Configurable potential-free outputs, some for the connection and disconnection of a back-up gense
- DC pre-charge system.
- Type 2, AC surge arresters.
SOLAR BATTERY POWER.COM AGM (GEL-ESS TECHNOLOGY)

HOPPECKE power.com SB batteries are based on using flat plate technology and fixing the electrolyte inside glass mats (AGM) which even take the separating function. The high energy density of HOPPECKE power.com SB batteries causes small footprint and a very good use of space. The central degassing integrated in the battery lid can, by using optional tubes, be used to carry out all occurring gases. The flat lid with integrated handle and the easy to clean surface guaranty an easy and comfortable handling by assembly as well as in operation. Optional this battery even can be delivered for horizontal assembly. This characteristic of HOPPECKE power.com SB batteries makes HOPPECKE power.com SB batteries usable in a wide applications spectrum. Mostly HOPPECKE power.com SB batteries are used in emergency current-, IT/ Telecom- and safety light applications.

HOPPECKE power.com SB batteries offer a design life from more then 12 years and are classified as “Long Life” following EUROBAT.

Your benefits with HOPPECKE power.com SB
- Maintenance-free regarding water refilling - Due to innovative GEL-ESS technology
- Good high-current capability
- Low investment costs due to innovative electrode structure
- Optimal space utilization - due to horizontal arrangement
- Optimum operational safety
- Integrated backfire protection and central degassing system
- Higher short-circuit safety even during the installation - Based on HOPPECKE system connectors
- Easy assembly and installation - battery lid with integral handle

**Type of Battery:**

| Standards: | IEC 60896, IEC 61427, DIN 40744 |
| Capacity: | 50-600 AH |
| Normal Voltage range: | 12V/6V/2V |
| Container Material: | PP, talcum |
| Grid alloy (+ive, -ive) | Pb + <1% Ca |
| Plates (+ive, -ive) | Tubular, Grid |
| Electrolyte: | H_2SO_4, AGM |
| Application: | Solar |
| Connector design: | bolted connector |
| Design life up to | 15 years |
| Cycles up to @ 30% DoD: | 1,000 |
| Operating temperature: | -20°C to +40°C |

**Voltage | Capacity | Weight | Size (L X W X H) |**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>12 V</td>
<td>70 AH</td>
<td>40 Kg</td>
<td>272 X 206 X 283</td>
</tr>
<tr>
<td>12 V</td>
<td>120 AH</td>
<td>52.5 Kg</td>
<td>272 X 206 X 283</td>
</tr>
<tr>
<td>12 V</td>
<td>180 AH</td>
<td>75.5 Kg</td>
<td>380 X 206 X 383</td>
</tr>
<tr>
<td>6 V</td>
<td>250 AH</td>
<td>51 Kg</td>
<td>272 X 205 X 383</td>
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<tr>
<td>6 V</td>
<td>300 AH</td>
<td>66 Kg</td>
<td>380 X 206 X 383</td>
</tr>
<tr>
<td>6 V</td>
<td>370 AH</td>
<td>73 Kg</td>
<td>380 X 205 X 383</td>
</tr>
</tbody>
</table>
**SOLAR BATTERY BLOC OPzV SOLAR POWER GEL**

The OPzV bloc solar.power batteries are sealed stationary batteries with fixed electrolyte in gel. The construction as sealed batteries makes OPzV bloc solar.power batteries maintenance free relating to re-filling of water.

Using tubular plates in combination with gauntlets at their positive tubular plates, OPzV bloc solar.power batteries offer an extreme high cycling expectancy. So they are optimal for application in sectors with high charge and discharge operation load like solar and off-grid applications. The electrolyte of OPzV bloc solar.power batteries is fixed in gel what causes even the option of a horizontal assembly (optional).

The shock resistant and strengthened Polypropylene housing offers an easy to clean surface and is resistant against all established cleaners. The flat lid with its integrated handle guaranties a very good handling and an easy assembly.

HOPPECKE batteries of the OPzV bloc solar.power type series have a cycling expectancy from up to 4500 discharges with 30% discharge level.

**Your benefits with OPzV bloc solar.power batteries**

- **Maximum cycle stability and durability** in particular during PSoC operations
- **Minimum maintenance costs with maximum safety** maintenance-free due to sealed Gel-technology
- **Highest reliability** for remote off-grid applications
- **High resistance against mechanical stress** reinforced impact-proof polypropylene housing
- **Highest project flexibility** provided by excellent stocking capability
- **Optimal environmental compatibility** - Closed loop for recovery of materials in an accredited recycling system

**Type of Battery:**

| Standards: | IEC 60896, IEC 61427, DIN 40744 |
| Capacity Range: | 70-370 AH |
| Normal Voltage range: | 12V/6V |
| Container Material: | PP, talcum |
| Grid alloy (+ive, -ive): | Pb + <1% Ca |
| Plates (+ive, -ive): | Tubular, Grid |
| Electrolyte: | H₂SO₄, GEL |
| Application: | Solar |
| Connector design: | bolted connector |
| Design life up to | 10 years |
| Cycles up to @ 30% DoD: | 1.300 |
| Operating temperature: | -20°C to +40°C |

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Capacity</th>
<th>Weight</th>
<th>Size (L X W X H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 V</td>
<td>50 AH</td>
<td>26 Kg</td>
<td>229 X 177 X 230</td>
</tr>
<tr>
<td>12 V</td>
<td>60 AH</td>
<td>26.5 Kg</td>
<td>229 X 177 X 230</td>
</tr>
<tr>
<td>12 V</td>
<td>80 AH</td>
<td>37.5 Kg</td>
<td>344 X 177 X 230</td>
</tr>
<tr>
<td>12 V</td>
<td>100 AH</td>
<td>38 Kg</td>
<td>344 X 177 X 230</td>
</tr>
<tr>
<td>12 V</td>
<td>110 AH</td>
<td>52 Kg</td>
<td>498 X 177 X 230</td>
</tr>
<tr>
<td>12 V</td>
<td>130 AH</td>
<td>52.5 Kg</td>
<td>498 X 177 X 230</td>
</tr>
<tr>
<td>12 V</td>
<td>140 AH</td>
<td>54.5 Kg</td>
<td>242 X 170 X 275</td>
</tr>
</tbody>
</table>
## KIT COMPONENTS

### Design
- Technical feature: Modular type
  - Aluminium
  - 10 years warranty
  - Tamper proof nut bolt
  - 100% recyclable material
  - A2 Stainless steel bolts
- Weight: 2.49kg/m
- Loads: wind, snow
- Test certificate: CE Certifies

### Cable:
- Model: SI-MC4-F
- Rated Voltage: TUV 1500V DC / UL 600V DC
- Rating Current: 20-30A
- 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 85ºC
- Flame class: UL94-V0

### Connector:
- Flexible conductor, class 5
- Maximum service temperature: 120ºC
- Estimated lifetime: 30 years.
- UV Resistant UV Resistant
- Grease & mineral oils resistance: excellent
- Grease & mineral oils resistance: excellent
100KW SOLAR ENERGY HYBRID KITS

Complete systems including all accessories with following options

<table>
<thead>
<tr>
<th>REF#</th>
<th>MODEL#</th>
<th>Option details: Forms</th>
</tr>
</thead>
<tbody>
<tr>
<td>19040</td>
<td>SEM-3E0HNT100K</td>
<td>-without battery and without aluminium support structure</td>
</tr>
<tr>
<td>19140</td>
<td>SEM-2E0HNT100K</td>
<td>-without batteries</td>
</tr>
<tr>
<td>19240</td>
<td>SEM-1E1HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 1 hour and without aluminium support structure</td>
</tr>
<tr>
<td>19340</td>
<td>SEM-1E2HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 2 hours and without aluminium support structure</td>
</tr>
<tr>
<td>19440</td>
<td>SEM-1E3HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 3 hours and without aluminium support structure</td>
</tr>
<tr>
<td>19540</td>
<td>SEM-1E4HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 4 hours and without aluminium support structure</td>
</tr>
<tr>
<td>19640</td>
<td>SEM-1E5HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 5 hours and without aluminium support structure</td>
</tr>
<tr>
<td>19740</td>
<td>SEM-1E1HGT100K</td>
<td>-GEL battery backup 1 hour and without aluminium support structure</td>
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<tr>
<td>19840</td>
<td>SEM-1E2HGT100K</td>
<td>-GEL battery backup 2 hours and without aluminium support structure</td>
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<tr>
<td>19940</td>
<td>SEM-1E3HGT100K</td>
<td>-GEL battery backup 3 hours and without aluminium support structure</td>
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<tr>
<td>20040</td>
<td>SEM-1E4HGT100K</td>
<td>-GEL battery backup 4 hours and without aluminium support structure</td>
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<td>SEM-1E5HGT100K</td>
<td>-GEL battery backup 5 hours and without aluminium support structure</td>
</tr>
<tr>
<td>20240</td>
<td>SEM-C1HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 1 hour</td>
</tr>
<tr>
<td>20340</td>
<td>SEM-C2HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 2 hours</td>
</tr>
<tr>
<td>20440</td>
<td>SEM-C3HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 3 hours</td>
</tr>
<tr>
<td>20540</td>
<td>SEM-C4HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 4 hours</td>
</tr>
<tr>
<td>20640</td>
<td>SEM-C5HAT100K</td>
<td>-AGM (GEL-ESS) battery backup 5 hours</td>
</tr>
<tr>
<td>20740</td>
<td>SEM-C1HGT100K</td>
<td>-GEL battery backup 1 hour</td>
</tr>
<tr>
<td>20840</td>
<td>SEM-C2HGT100K</td>
<td>-GEL battery backup 2 hours</td>
</tr>
<tr>
<td>20940</td>
<td>SEM-C3HGT100K</td>
<td>-GEL battery backup 3 hours</td>
</tr>
<tr>
<td>21040</td>
<td>SEM-C4HGT100K</td>
<td>-GEL battery backup 4 hours</td>
</tr>
<tr>
<td>21140</td>
<td>SEM-C5HGT100K</td>
<td>-GEL battery backup 5 hours</td>
</tr>
</tbody>
</table>

Solar Energy Kit Model Configuration:
Your contribution to reduce CO$_2$ for sustainable earth