



Enviro Energy Solutions Ltd
Your Gateway to the Sun

EPSG Series

Portable Solar Generators

...BECAUSE WITH ENVIROENERGY SOLUTIONS THE SUN SHINES FOR EVERYONE...



Version 011019

A. EPSG1 SERIES PORTABLE SOLAR GENERATORS

1. GENERAL SPECIFICATIONS



EPSG1 Series
Portable Solar Generators

➤ **Excellent performance:**

- Double CPU intelligent control technology
- System control
- Lithium Battery

➤ **Stable:**

- Pure sine wave AC output allowing a wide range of applicable loads
- Intelligent exhaust fan control

➤ **Flexible:**

- Adjustable mains supply mode
- Adjustable energy-saving mode
- Adjustable battery mode

➤ **Convenient and practical:**

- All in One system
- Easy installation
- 5 VDC USB outlets
- 12VDC outlets
- 220 AC Outlets

➤ **Elegant:**

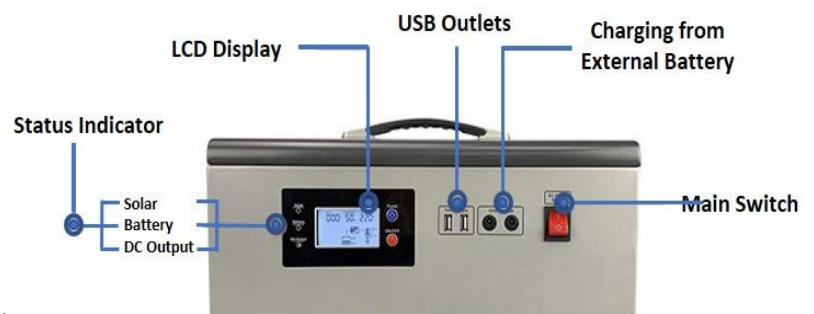
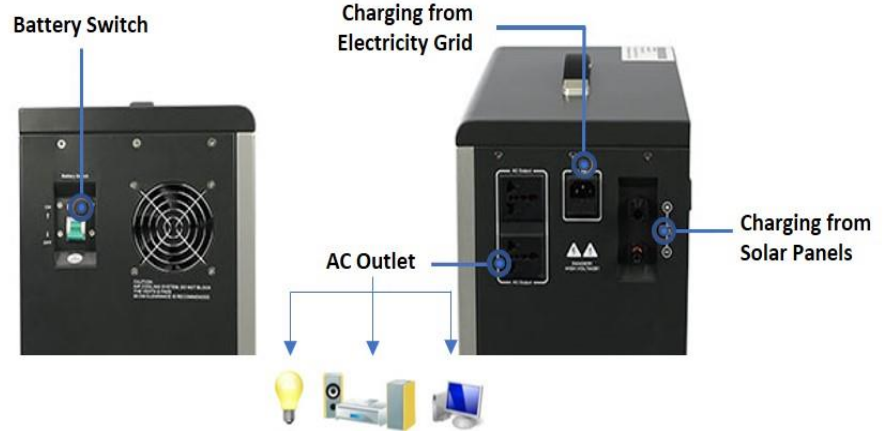
- Digital LCD screen for controlling and programing
- LEDs for visualization of operation status

➤ **Safe and reliable:**

- Overall automatic protection and alarms
- Overcharge protection and over discharge protection
- Over Temperature protection
- AC outlet overload protection
- Short circuit protection, Surge protection
- Lightening protection
- Reverse polarity protection

➤ **Versatile:**

- Portable with handles and wheels
- Wide range of applicable loads
- Multiple charging options: Solar, External battery and Electricity grid



2. TECHNICAL SPECIFICATIONS

| EP SG1 Series Technical Specifications | | |
|--|--|---------------|
| Model | EP SG1-500W | EP SG1-1000W |
| Battery Nominal Voltage | 12V | 24V |
| Inverter Specifications | | |
| NOMINAL POWER | 500W/800VA | 1000W/1500VA |
| Input Voltage Range | 160-275V | |
| Input Frequency | 45-65Hz | |
| Output Voltage | 220VAC | |
| Output Frequency | 50/60Hz | |
| Output Wave | Pure Sine Wave | |
| Battery Type | Lithium | |
| Battery Specifications | 50AH/12V | 2 x 100AH/12V |
| Communication | RS232 | |
| Solar Specifications | | |
| Solar Panel Nominal Power | 240W | 480W |
| Max. PV Voltage | ≤25VDC | ≤50VDC |
| Range of Charging Voltage | 10-25VDC | 20-50VDC |
| Rated Charge Current | 20A (MPPT) | |
| Overcharge Voltage Protection | 14.2VDC | 28.4VDC |
| Voltage for Overcharge Recovery | 14VDC | 28VDC |
| Voltage for Floating Charge | 13.7VDC | 27.4VDC |
| DC Output | | |
| High Voltage Protection Voltage | 16VDC | 32VDC |
| High Voltage Recovery Voltage | 15.2VDC | 30.2VDC |
| Low Voltage Protection Voltage | 11VDC | 22VDC |
| Low Voltage Recovery Voltage | 12.6VDC | 25.2VDC |
| 5VDC USB Output | 2 outlets of 2A Max | |
| 12VDC Output Ports | 2 outlets of 2A Max | |
| Unit Specifications | | |
| Heat Dissipation/Cooling | Temperature control with intelligent exhaust fan | |
| Display | Digital LCD | Digital LCD |
| Electricity Charging | Yes | Yes |
| Unit Dimensions WxDxH (mm) | 420x220x270 | 430x230x330 |
| Packaged Dimensions WxDxH (mm) | 507x295x355 | 512x310x405 |
| Weight (kg) | 16 | 23 |

B. EPSG2 SERIES PORTABLE SOLAR GENERATORS

1. GENERAL SPECIFICATIONS

➤ **Excellent performance:**

- Double CPU intelligent control technology
- System control
- AGM Battery

➤ **Stable:**

- Pure sine wave AC output allowing a wide range of applicable loads
- Intelligent exhaust fan control

➤ **Flexible:**

- Adjustable mains supply mode
- Adjustable energy-saving mode
- Adjustable battery mode

➤ **Convenient and practical:**

- All in One system
- Easy installation
- 5 VDC USB outlets
- 12VDC outlets
- 220 AC Outlets

➤ **Elegant:**

- Digital LCD screen for controlling and programing
- LEDs for visualization of operation status

➤ **Safe and reliable:**

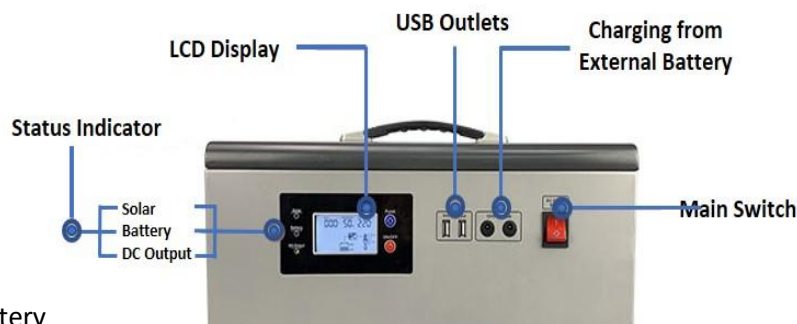
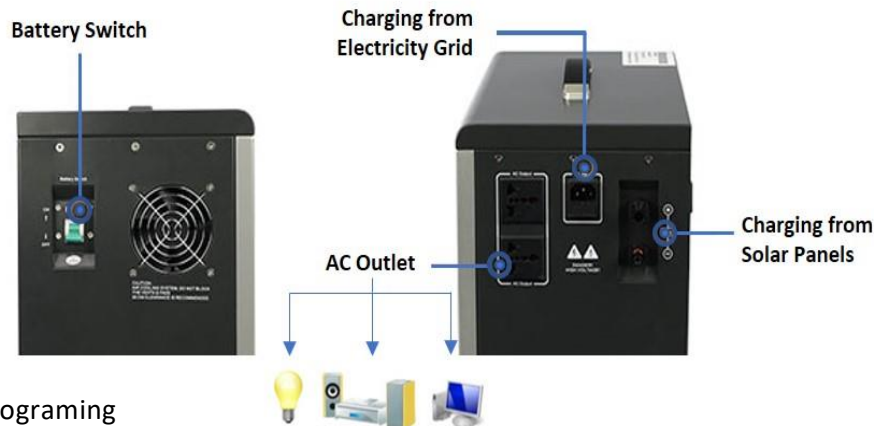
- Overall automatic protection and alarms
- Overcharge protection and over discharge protection
- Over Temperature protection
- AC outlet overload protection
- Short circuit protection, Surge protection
- Lightening protection
- Reverse polarity protection

➤ **Versatile:**

- Portable with handles and wheels
- Wide range of applicable loads
- Multiple charging options: Solar, External battery and Electricity grid



EPSG2 Series
Portable Solar Generators



2. TECHNICAL SPECIFICATIONS

| EPSG2 Series Technical Specifications | | | |
|---------------------------------------|--|--------------|---------------|
| Model | EPSG2-500W | EPSG2-1000W | EPSG2-2000W |
| Battery Nominal Voltage | 12V | 12V | 24V |
| Inverter Specifications | | | |
| NOMINAL POWER | 500W/500VA | 1000W/1000VA | 1200W/2000VA |
| Input Voltage Range | 140-275V | | |
| Input Frequency | 45-65Hz | | |
| Output Voltage | 220VAC | | |
| Output Frequency | 50/60Hz | | |
| Output Wave | Sine Wave | | |
| Battery Type | AGM | | |
| Battery Specifications | 12V/65AH | 12V/100AH | 2 x 12V/120AH |
| Communication | RS232 | | |
| Solar Specifications | | | |
| Solar Panel Nominal Power | 360W | 360W | 720W |
| Max. PV Voltage | ≤25VDC | ≤25VDC | ≤50VDC |
| Range of Charging Voltage | 10-25VDC | 10-25VDC | 20-50VDC |
| Rated Charge Current | 30A | | |
| Overcharge Voltage Protection | 14.2VDC | 14.2VDC | 28.4VDC |
| Voltage for Overcharge Recovery | 14VDC | 14VDC | 28VDC |
| Voltage for Floating Charge | 13.7VDC | 13.7VDC | 27.4VDC |
| DC Output | | | |
| High Voltage Protection Voltage | 16VDC | 16VDC | 32VDC |
| High Voltage Recovery Voltage | 15.2VDC | 15.2VDC | 30.2VDC |
| Low Voltage Protection Voltage | 11VDC | 11VDC | 22VDC |
| Low Voltage Recovery Voltage | 12.6VDC | 12.6VDC | 25.2VDC |
| 5VDC USB Output | 2 outlets of 2A Max | | |
| 12VDC Output Ports | 2 outlets of 2A Max | | |
| Unit Specifications | | | |
| Heat Dissipation/Cooling | Temperature control with intelligent exhaust fan | | |
| Display | Digital LCD | | |
| Electricity Charging | Yes | | |
| Unit Dimensions WxDxH (mm) | 434x242x461 | 448x248x503 | 491x394x552 |
| Packaged Dimensions WxDxH (mm) | 500x350x540 | 517x346x583 | 555x490x730 |

C. EPSG3 SERIES PORTABLE SOLAR GENERATORS

1. GENERAL SPECIFICATIONS

➤ **Excellent performance:**

- Double CPU intelligent control technology
- System control
- AGM Battery

➤ **Stable:**

- Pure sine wave AC output allowing a wide range of applicable loads
- Intelligent exhaust fan control

➤ **Flexible:**

- Adjustable mains supply mode
- Adjustable energy-saving mode
- Adjustable battery mode

➤ **Convenient and practical:**

- All in One system
- Easy installation
- 5 VDC USB outlets
- 12VDC outlets
- 220 AC Outlets

➤ **Elegant:**

- Digital LCD screen for controlling and programming
- LEDs for visualization of operation status

➤ **Safe and reliable:**

- Overall automatic protection and alarms
- Overcharge protection and over discharge protection
- Over Temperature protection
- AC outlet overload protection
- Short circuit protection, Surge protection
- Lightning protection
- Reverse polarity protection

➤ **Versatile:**

- Portable with handles and wheels
- Wide range of applicable loads
- Multiple charging options: Solar, External battery and Electricity grid



EPSG3 Series
Portable Solar Generators



2. TECHNICAL SPECIFICATIONS

| EPSG3 Technical Specifications | | | | |
|---------------------------------|--|-------------|--------------|--------------|
| Model | EPSG3-500W | | EPSG3-1000W | |
| Battery Nominal Voltage | 12V | | 24V | |
| Inverter Specifications | | | | |
| NOMINAL POWER | 500W/500VA | | 1000W/1000VA | |
| Input Voltage Range | 160-275V | | | |
| Input Frequency | 45-65Hz | | | |
| Output Voltage | 220VAC | | | |
| Output Frequency | 50/60Hz | | | |
| Output Wave | Sine Wave | | | |
| Battery Type | AGM | | | |
| Battery Specifications | 55AH/12V | 100AH/12V | 2 x 55AH/12V | 4 x 55AH/12V |
| Communication | RS232 | | | |
| Solar Specifications | | | | |
| Solar Panel Nominal Power | 150W/18V | 150W/18V | 300W/36V | 300W/36V |
| Max. PV Voltage | ≤25VDC | | ≤50VDC | |
| Range of Charging Voltage | 10-25VDC | | 20-50VDC | |
| Rated Charge Current | 20A | | | |
| Overcharge Voltage Protection | 14.2VDC | | 28.4VDC | |
| Voltage for Overcharge Recovery | 14VDC | | 28VDC | |
| Voltage for Floating Charge | 13.7VDC | | 27.4VDC | |
| DC Output | | | | |
| High Voltage Protection Voltage | 16VDC | | 32VDC | |
| High Voltage Recovery Voltage | 15.2VDC | | 30.2VDC | |
| Low Voltage Protection Voltage | 11VDC | | 22VDC | |
| Low Voltage Recovery Voltage | 12.6VDC | | 25.2VDC | |
| 5VDC USB Output | 2 outlets of 2A Max | | | |
| 12VDC Output Ports | 2 outlets of 2A Max | | | |
| Unit Specifications | | | | |
| Heat Dissipation/Cooling | Temperature control with intelligent exhaust fan | | | |
| Display | Digital LCD | Digital LCD | Digital LCD | LED |
| Electricity Charging | Yes | Yes | Yes | No |
| Unit Dimensions WxDxH (mm) | 343×225×443 | 423×260×453 | 423×260×453 | 513×310×493 |
| Packaged Dimensions WxDxH (mm) | 420×290×490 | 520×370×520 | 520×370×520 | 610×420×550 |

D. EPSG4 SERIES PORTABLE SOLAR GENERATORS

1. GENERAL SPECIFICATIONS

➤ **Excellent performance:**

- Double CPU intelligent control technology
- System control
- AGM Battery

➤ **Stable:**

- Pure sine wave AC output allowing a wide range of applicable loads
- Intelligent exhaust fan control

➤ **Flexible:**

- Adjustable mains supply mode
- Adjustable energy-saving mode
- Adjustable battery mode

➤ **Convenient and practical:**

- All in One system
- Easy installation
- 5 VDC USB outlets
- 12VDC outlets
- 220 AC Outlets

➤ **Elegant:**

- Digital LCD screen for controlling and programing
- LEDs for visualization of operation status

➤ **Safe and reliable:**

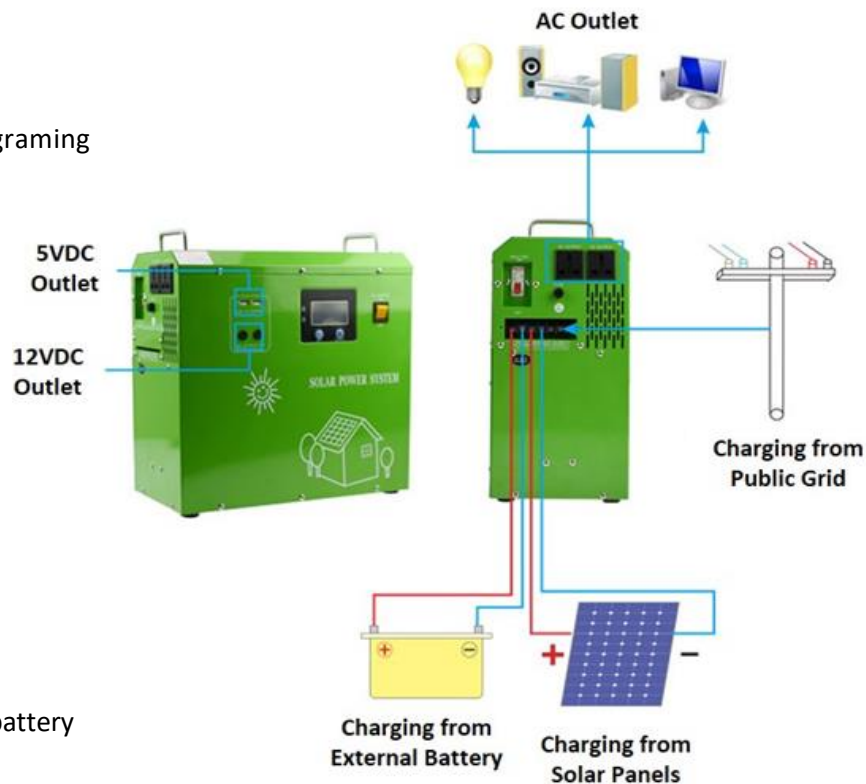
- Overall automatic protection and alarms
- Overcharge protection and over discharge protection
- Over Temperature protection
- AC outlet overload protection
- Short circuit protection, Surge protection
- Lightening protection
- Reverse polarity protection

➤ **Versatile:**

- Portable with handles and wheels
- Wide range of applicable loads
- Multiple charging options: Solar, External battery and Electricity grid



EPSG4 Series
Portable Solar Generators



2. TECHNICAL SPECIFICATIONS

| EPSG4 Technical Specifications | | | | | |
|-----------------------------------|--|-------------|-------------|--------------|--------------|
| Model | EPSG4-300W | EPSG4-500W | EPSG4-700W | EPSG4-1000W | EPSG4-1200W |
| Battery Nominal Voltage | 12VDC | | | | |
| Inverter Specifications | | | | | |
| NOMINAL POWER | 300W/500VA | 500W/700VA | 700W/1000VA | 1000W/1200VA | 1200W/1500VA |
| Input Voltage Range | 140V-275VAC (220VAC) | | | | |
| Input Frequency | 45-65Hz | | | | |
| Output Voltage | 220VAC | | | | |
| Output Frequency | 50/60Hz | | | | |
| Output Wave | Pure Sine Wave | | | | |
| Battery Type | AGM | | | | |
| Battery Specifications | 65AH/12V | 65AH/12V | 100AH/12V | 100AH/12V | 100AH/12V |
| Solar Specifications | | | | | |
| Solar Panel Nominal Power | 120W | 240W | 240W | 360W | 360W |
| Max. PV Voltage | ≤25VDC | | | | |
| Rated Charge Current | 10A | 20A | 20A | 30A | 30A |
| Overcharge Voltage Protection | 15V-16VDC | | | | |
| Over discharge Voltage | 10VDC | | | | |
| DC Output | | | | | |
| 5VDC USB Outlets | 2 outlets of 2A Max | | | | |
| 12VDC Outlets | 2 outlets of 2A Max | | | | |
| Unit Specifications | | | | | |
| Heat Dissipation/Cooling | Temperature control with intelligent exhaust fan | | | | |
| Display | Digital LCD | | | | |
| Electricity Charging | Yes | Yes | Yes | Yes | Yes |
| Unit Dimensions WxDxH (mm) | 385x190x380 | 385x190x380 | 510x220x475 | 510x220x475 | 510x220x475 |
| Packaged Dimensions WxDxH (mm) | 450x270x460 | 450x270x460 | 580x290x560 | 580x290x560 | 580x290x560 |
| Gross Weight Without Battery (kg) | 11 | 12 | 19 | 21 | 22 |
| Total Gross Weight (kg) | 29 | 30 | 45 | 47 | 48 |

E. EPSG5 SERIES PORTABLE HYBRID SOLAR GENERATORS

By Day or night, in summer and winter, with or without power shortages, the New **EPSG5 Series Portable Hybrid Solar Generators** will always make sure you are energy sufficient and independent.

When used Off-grid with **EPSG5 Series** you ensure your own electricity production and 24h power availability through battery storage.

When used in combination with the grid **EPSG5 Series** is designed to make you the most energy independent possible and works automatically switching between Solar Power and Grid to minimize your electricity bill without your having anything to do. It is equipped with a digital screen which lists all the essential information about your installation.

EPSG5 Series Portable Hybrid Solar Generators will revolutionize your energy consumption so you IMMEDIATELY drop your bills and limit the impact of constant increase of the cost of electricity.

1. GENERAL SPECIFICATIONS

➤ **Excellent performance:**

- wide PV input range MPPT controller
- System control
- GEL Battery

➤ **Stable:**

- Pure sine wave AC output allowing a wide range of applicable loads
- Intelligent exhaust fan control

➤ **Flexible:**

- Adjustable mains supply mode
- Adjustable energy-saving mode
- Adjustable battery capacity using the standard battery packs and/or external batteries.
- Accepts input voltage based on different applications

➤ **Convenient and practical:**

- All in One system Combining functions of inverter, solar charger and battery to offer uninterrupted power in a portable size.
- Converts solar energy directly to 220 AC Outlets
- Easy Plug and Play installation without complicated cabling

➤ **Elegant:**

- Digital LCD screen for controlling and programming
- LEDs for visualization of operation status

➤ **Safe and reliable:**

- Overall automatic protection and alarms
- Overcharge protection and over discharge protection
- Over Temperature protection
- AC outlet overload protection
- Short circuit protection, Surge protection
- Lightning protection
- Reverse polarity protection

➤ **Versatile:**

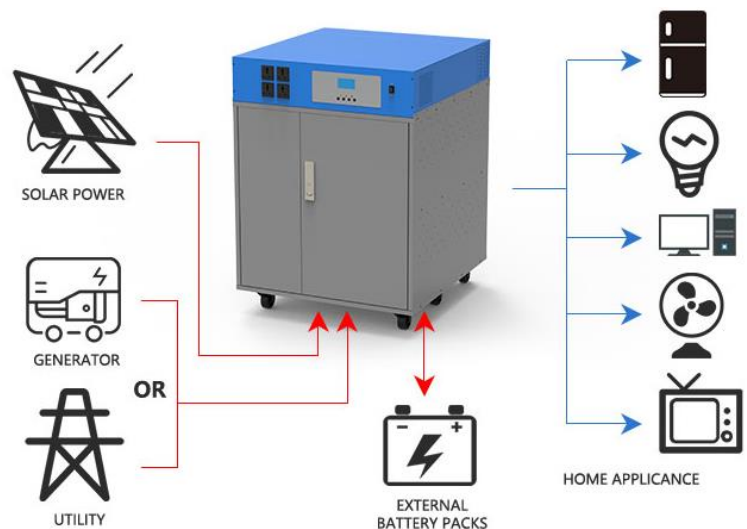
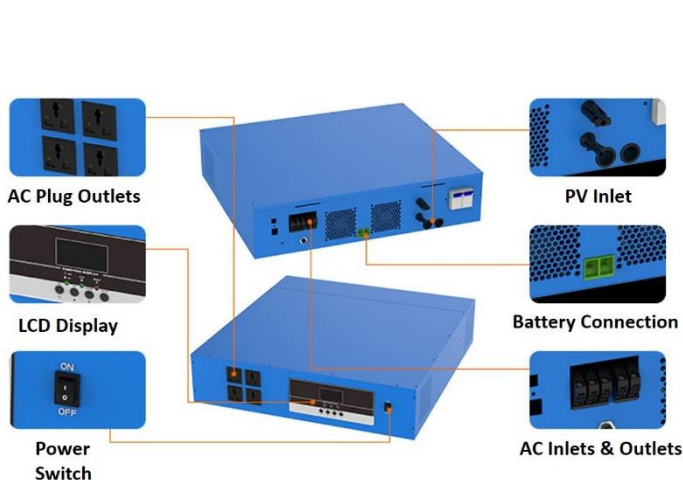
- Portable with wheels and can be Split in Two
- Wide range of applicable loads
- Multiple charging options: Solar, External battery and Electricity grid



2. TECHNICAL SPECIFICATIONS

EPSG5 Technical Specifications

| Model | EP5G5-3000W | EP5G5-5000W | |
|------------------------------------|--|-------------|-------|
| Battery Nominal Voltage | 24V | 48V | |
| Inverter Specifications | | | |
| NOMINAL POWER | 3200W | 5000W | |
| Nominal Input Voltage | 220-230VAC | | |
| Input Frequency | 50-60Hz (Auto-detection) | | |
| Output Voltage | 220-230VAC | | |
| Output Frequency | 50/60Hz | | |
| Output Wave | Sine Wave | | |
| Battery Type | GEL | | |
| Battery Specifications | 4 x 250Ah/24V | | |
| Communication | RS232 | | |
| Solar Specifications | | | |
| Solar Panel Max. Power | 4000W | 4000W | 5000W |
| PV Array MPPT Voltage Range | 120-450VDC | | |
| Max. PV Array Open Circuit Voltage | 500VDC | | |
| MPPT Max Charging Current | 80A | | |
| Unit Specifications | | | |
| Heat Dissipation/Cooling | Temperature control with intelligent exhaust fan | | |
| Display | Digital LCD | | |
| Electricity Charging | Yes | | |
| Main Unit Dimensions WxDxH (mm) | 580x610x780 | | |
| Packaged Dimensions WxDxH (mm) | 710x870x930 | | |





Enviro Energy Solutions Ltd

Your Gateway to the Sun

**We do not inherit the earth
from our fathers,
We borrow it
from our children..."**

...BECAUSE WITH ENVIROENERGY SOLUTIONS THE SUN SHINES FOR EVERYONE...



Head Office: Enviroenergy Solutions E.S. Ltd
10, Th. Dervi Str. - 1305 Nicosia - Cyprus



Factory: 1st Km. Inofyta – St. Thomas Rd
32011 Inofyta – Viotia - Greece