



SHINE
BRIGHTER
Go Solar



ABOUT US

ONESUN is a part of Group of Companies, an ISO 9001:2015 certified company, which is one of the most promising and emerging enterprise indulge in innovative and cutting-edge technology to introduce various renewable energy products.

ONESUN Group has successfully created a wide array of ventures and businesses spread across multiple verticals such as Renewable Energy, Real Estate, Mining, Manufacturing, Distribution Network and many more. We provide end to end energy solutions for small scale (Household and Remote areas) as well as large scale (industry, power plant and institutional) applications. We provide wide range of products, including, Solar Modules, Solar Batteries (Lead Acid, Lithium, etc.), Solar Off Grid PCUs (PWM, MPPT), Solar Hybrid PCUs, Energy Storage Systems, Solar Home Lighting System, etc.

OUR VISION:

Our vision is to revolutionize the power electronics industry, empowering individuals and communities to embrace clean energy and reduce their environmental impact. We strive to be the leading choice for customers seeking innovative, reliable, and affordable power electronics solutions.

OUR MISSION:

Our mission is to deliver exceptional value through a comprehensive range of power electronics products. We prioritize top-notch quality, advanced technology, and affordability. By enabling customers to harness the power of renewable energy, we aim to contribute to a greener and more sustainable future.

WE COVER THE WHOLE SPECTRUM



Quality and Affordability :
Power electronics with utmost reliability.



Extensive product range :
Inverters, SMUs, Controllers, Batteries, and Panels



Customer satisfaction guaranteed :
Fulfilling all your power needs seamlessly





A FRESH SOLUTION

WHO WE ARE

We are the most promising and emerging brand in the field of power electronics. We are committed to provide high quality and affordable products. We offer an extensive range of products including Inverters, SMU (Solar Management Unit), Solar Charge Controllers, Batteries, Solar Panels; enabling us to accommodate all the needs of our customers up to their full satisfaction



Why Choose Us?

”

Elect us for unmatched expertise, reliable products, and exceptional customer service, empowering your journey towards sustainable energy

”



**Leading the Way
in Power Electronics**



**Customer Satisfaction
is Our Priority**



**Unmatched Quality and
Affordability**



**Reliable Performance
You Can Trust**



**Complete Solution
Provider**



**Innovation Driving
Sustainable Power**

Solar Battery



Description

The tall tubular solar battery is the highest performing solar battery in the market. The core features of the solar battery are high surface carbon, micropores woven gauntlet, special grade PE separator, and advanced paste formulation. The improved discharge performance is mainly due to the presence of high surface carbon. It leads to not only high capacity and excellent life cycle performance but also improves the active material utilization for better performance of the electrodes. Onesun uses premium technology and high-grade materials in lead acid tubular batteries to deliver maximum power for extended durations and have an appreciably longer life span. These batteries are specifically suitable for powering up inverters. Our main purpose in introducing such batteries is to provide an eco-friendly environment and save fuel. To providing long life to batteries, we basically made strong and thick plates to avoid corrosion. It has an exclusive deep cycle high-density plate technology that gives higher back-up than any other batteries of the same class range.

Tubular Solar Battery - USP's

- Advanced High Surface Carbon for enhanced Performance
- Lowest capacity decay over storage (Self Discharge)
- High purity spine and grid alloy for ultra-low maintenance
- Optimized negative paste receipt for fast charge acceptance
- Leak proof vent plug design

Explosion & Fire Risk

- Avoid short circuit and loose connections.
- Authorized personnel shall carry out replacement of batteries.
- Do not store battery in places of high temperature and humidity.



Key Features

- Operate on both Solar Power as well as Grid Power.
- It is integrated with an in-built fully regulated 50Amp/70Amp PWM Solar Charge Controller for maximum Solar Power utilization.
- Smart Solar Selection with three different saving modes.
- It is designed to give you maximum benefit from solar energy and minimize your electricity bill drastically.
- Highly efficient battery charging from solar energy as a result you will get non-stop power, save money, save electricity and protect the environment.
- Advanced ARM Cortex technology for absolute stability and 100% pure sine wave output.
- User-friendly LCD for the display of the mode of operation and all parameters.
- **Dual Mode of working:** UPS and Normal
- **UPS Mode:** Fast switching, Input operating range from 180V to 260V.
- **Normal Mode:** Wide Input operating range from 100V to 290V.
- **Dual Solar Mode:** Hybrid and PCU Mode
- **Hybrid Mode:** Intelligent battery charging through Solar Power and Grid Power.
- **PCU Mode:** Charge sharing and ability to run a load with solar and battery hence saving grid power and utilizing maximum solar power to minimize the electricity bill.

If solar is available and battery declared as full charged, then Mains will automatic cut till battery discharge upto pre-deined level in PCU mode.



TECHNICAL SPECIFICATION

| Parameters | | | Rating | | |
|----------------------------------|-------------------------|--------------|--------------------------------|------------|-----------------------|
| System Model Name | | | OSPP110012MS | OSPP2500MS | |
| Capacity | | | 1000VA | 2200VA | |
| Operating DC Voltage | | | 12V | 24V | |
| SwUPSching Element | | | Mosfet | | |
| Charger Topology | | | Boost Mosfet | | |
| Parameter (Grid) | | | Default Value | | Variable Range |
| Nominal Grid Voltage | | | 230V | | |
| Nominal Frequency | | | 50Hz | | |
| Frequency Range | | | 45-55 Hz ± 1 Hz | | |
| Battery Charging Method 4 Stage | | | Bulk/Absorption/Float/Equalize | | |
| Grid - Battery Charging | TUB (Default) | Boost | 14.4V ± 0.2V (Each Battery) | | |
| | | Float | 13.8V ± 0.2V (Each Battery) | | 13V-14.2V |
| Grid - Battery Charging | SMF | Boost | 14.2V ± 0.2V (Each Battery) | | 13.5V-14.2V |
| | | Float | 13.8V ± 0.2V (Each Battery) | | 13.5V-14.2V |
| Grid - Battery Charging Current | Enable | Default | 12A ± 1A | 15A ± 1A | 5A-18A |
| | | Maximum | 15A ± 1A | 18A ± 1A | |
| | Disable | Normal/Boost | Charging Current 0.0A | | |
| Grid Reconnect @ Battery Voltage | | | 11.7V ± 0.2V (Each Battery) | | 11V-12.5V |
| Grid Low Cut Voltage | UPS Mode Enable | | 170V ± 10V | | |
| | UPS Mode Disable | | 100V ± 10V | | |
| Grid Low Cut Recovery | UPS Mode Enable | | 180V ± 10V | | |
| | UPS Mode Disable | | 110V ± 10V | | |
| Grid High Cut Voltage | UPS Mode Enable | | 265V ± 10V | | |
| | UPS Mode Disable | | 290V ± 10V | | |
| Grid High Cut Recovery | UPS Mode Enable | | 255V ± 10V | | |
| | UPS Mode Disable | | 280V ± 10V | | |
| Changeover (Batt. To Mains) | UPS Mode Enable/Disable | | <5ms | | |
| Changeover (Mains To Batt.) | UPS Mode Enable/Disable | | <12ms | | |
| DG Mode | Enable/Disable | | Disable | | |
| Parameter (Battery Mode) | | | | | |
| Output Phase | | | 1 Phase | | |
| Output Waveform | | | Sinewave | | |
| Nominal Output Voltage | | | 220V ± 5% | | |
| Maximum Bulb Load | | | 800 watt | 2000 watt | |
| Discharging Current | | | 55A ± 2A | 80A ± 2A | |
| Nominal Frequency | | | 50Hz ± 1% | | 50-60 Hz |
| Battery Low Buzzer | | | 10.8V ± .02V (Each Battery) | | Battery Low Cut +0.3V |
| Battery Low Cut | | | 10.5V ± .02V (Each Battery) | | 10V - 11.5V |
| Battery High Cut | | | 16.5V ± .02V (Each Battery) | | 16.5V - 17.5V |



TECHNICAL SPECIFICATION

| Parameters | Rating | | | |
|--|---|--|--|--|
| Typical Efficiency | ≥ 77% | | ≥ 82% | |
| Voltage Harmonic | < 3% (Linear Load) | | | |
| Over Load CapacUPSy | UPS Mode Disable | >110% 3-Times Auto Reset wUPSh 30Sec. Delay and 4th Time Shut Down | | |
| | UPS Mode Enable | >110% 1st Time Shut Down after 30 Sec Delay. | | |
| | >150% Output Goes Down | | | |
| Protection | Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, PV Low, Mains Fuse Trip, Grid Overload, Over Charging, Grid Frequency Out of Range | | | |
| Switches and LED Indication | S.No. | Switch | Function(s) | Switch Led Status |
| | 1 | POWER | ON/OFF the UPS Output | SYSTEM ON - Led ON SYSTEM OFF - Led OFF |
| | 2 | INV/UPS | When it is short pressed it enables UPS/Inverter Mode Selection. When it is Long pressed Enables the UPS Parameter Setting. | UPS Mode ON - Led ON UPS Mode OFF - Led OFF |
| | 3 | SMF/TUB | When it is short pressed it enables TUBULAR or SMF Battery Selection. | TUBULAR Battery - Led ON SMF Battery - Led OFF |
| | 4 | HYBRID/PCU | When it is Short pressed it Enables the Hybrid or PCU Mode Selection. | PCU Mode - Led ON HYBRID Mode - Led OFF |
| | 5 | ONLY LED | Solar status Green/Red | Green LED ON - Full Solar Used Green LED Blinking – Partial Solar Used Green LED OFF - No Solar Used Red LED ON – PV Reverse Protection Red LED OFF – No Protection Selected |
| Display | Battery Voltage, Solar Charging current, Grid Charging current, Solar Load Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency,Load in % on Battery, Load in % on Solar, Charging Mode, Protection, Charging Mode, Solar Kwh(Saving),Solar availability Status, Solar Working Mode(HYBRID/PCU LITE/ PCU ULTRA), UPS ON/OFF. | | | |
| Photovoltaic Input | | | | |
| Input Voltage Range (Min - Max) | 20 - 55 VDC | | 45 - 110 VDC | |
| Maximum PV Power Recommended | 1000W | | 2200W | |
| Parameter (Environment) | | | | |
| Operating Temprature | 0 - 50°C | | | |
| Cooling | Fan | | | |
| Max. Relative HumidUPSy @25°C (Non Condensing | 95% | | | |
| Noise @ 1 Meter | 50dB | | | |
| Standard Compliance | IP20 | | | |
| *Specification are subject to change wUPShout prior notice due to constant improvement in design & technology. | | | | |



TECHNICAL SPECIFICATION

| Parameters | | | Rating | |
|----------------------------------|-------------------------|--------------|--------------------------------|-----------------------|
| System Model Name | | | OSPP110012PS | |
| Capacity | | | 850VA | |
| Operating DC Voltage | | | 12V | |
| Switching Element | | | Mosfet | |
| Charger Topology | | | Boost Mosfet | |
| Parameter (Grid) | | | Default Value | Variable Range |
| Nominal Grid Voltage | | | 230V | |
| Nominal Frequency | | | 50Hz | |
| Frequency Range | | | 45-55 Hz ± 1 Hz | |
| Battery Charging Method 4 Stage | | | Bulk/Absorption/Float/Equalize | |
| Grid - Battery Charging | TUB (Default) | Boost | 14.4V ± 0.2V (Each Battery) | |
| | | Float | 13.8V ± 0.2V (Each Battery) | |
| Grid - Battery Charging | SMF | Boost | 14.2V ± 0.2V (Each Battery) | |
| | | Float | 13.8V ± 0.2V (Each Battery) | |
| Grid - Battery Charging Current | Enable | Default | 12A ± 1A | |
| | | Maximum | 12A ± 1A | |
| | Disable | Normal/Boost | Charging Current 0.0A | |
| Grid Reconnect @ Battery Voltage | | | 11.7V ± 0.2V (Each Battery) | |
| Grid Low Cut Voltage | UPS Mode Enable | | 170V ± 10V | |
| | UPS Mode Disable | | 100V ± 10V | |
| Grid Low Cut Recovery | UPS Mode Enable | | 180V ± 10V | |
| | UPS Mode Disable | | 110V ± 10V | |
| Grid High Cut Voltage | UPS Mode Enable | | 265V ± 10V | |
| | UPS Mode Disable | | 290V ± 10V | |
| Grid High Cut Recovery | UPS Mode Enable | | 255V ± 10V | |
| | UPS Mode Disable | | 280V ± 10V | |
| Changeover (Batt. To Mains) | UPS Mode Enable/Disable | | <6ms/<6ms | |
| Changeover (Mains To Batt.) | UPS Mode Enable/Disable | | <6ms/<30ms | |
| DG Mode | Enable/Disable | | Disable | |
| Parameter (Battery Mode) | | | | |
| Output Phase | | | 1 Phase | |
| Output Waveform | | | Sinewave | |
| Nominal Output Voltage | | | 220V ± 5% | |
| Maximum Bulb Load | | | 560 watt | |
| Discharging Current | | | 55A ± 2A | |
| Nominal Frequency | | | 50Hz ± 1% | |
| Battery Low Buzzer | | | 10.8V ± .02V (Each Battery) | Battery Low Cut +0.3V |
| Battery Low Cut | | | 10.5V ± .02V (Each Battery) | 10V - 11.5V |
| Battery High Cut | | | 16.5V ± .02V (Each Battery) | 16.5V - 17.5V |



TECHNICAL SPECIFICATION

| Parameters | | | Rating | | |
|---|------------------|-------|---|---|---|
| Typical Efficiency | | | ≥ 77% | | |
| Voltage Harmonic | | | < 3% (Linear Load) | | |
| Over Load Capacity | UPS Mode Disable | | >110% 3-Times Auto Reset with 30Sec. Delay and 4th Time Shut Down | | |
| | UPS Mode Enable | | >110% 1st Time Shut Down after 30 Sec Delay. | | |
| | | | >150% Output Goes Down | | |
| Protection | | | Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High Voltage, PV Low, Mains Fuse Trip, Grid Overload, Over Charging, Grid Frequency Out of Range | | |
| Switches and LED Indication | S.No. | | Switch | Function(s) | Switch Led Status |
| | 1 | | POWER | ON/OFF the UPS Output | SYSTEM ON - Led ON SYSTEM OFF - Led OFF |
| | 2 | | Switch UPS/ Normal | When it is pressed it enables UPS/Normal Mode Selection. | UPS Mode ON - Led ON UPS Mode OFF - Led OFF |
| | 3 | | NC/HC | When it is pressed it enables Normal Charging/ High Charging. | HC Charging - Led ON NC Charging - Led OFF |
| | 4 | | Overload LED | UPS is overload. | Overload- Led Blinking with Beep. Overload and shutdown - Led Blinking without Beep. UPS Shortcircuit Led Continuous glow. |
| | 5 | | Charging LED | Battery Charging. | Battery Charging - Led Blink Battery >90% Charged Led ON |
| | 6 | | Battery Low LED | UPS Battery Condition. | Battery Low- Led ON with Beep. Battery Low Cut - Led ON without Beep. |
| | 7 | | Mains LED | Mains Condition. | Grid in Range- Led On Fuse Trip - Led Blinking without Beep. Fuse Trip and UPS off - Led Continuous glow. |
| Parameter (Solar) | | | | | |
| Switching Element | | | Mosfet | | |
| Operating Mode HYBRID/PCU LITE/ PCU ULTRA | | | Hybrid | | |
| Type of Charger | | | PWM | | |
| SPV Charging Voltage | TUB | Boost | 14.7V ± .02V (Each Battery) | | |
| | | Float | 14.2V ± .02V (Each Battery) | | |
| SPV Charging Voltage | SMF | Boost | 14.3V ± .02V (Each Battery) | | |
| | | Float | 13.9V ± .02V (Each Battery) | | |
| Efficiency | | | ≥ 97% | | |
| Solar Current MIN. | | | >1A (Below 1A, System will act like Solar Absent) | | |
| Solar Current MAX. | | | 30A | | |
| Input Voltage Range (Min - Max) Voc | | | 17V - 25V | | |
| Maximum PV Power Recommended | | | 500W | | |
| Parameter (Environment) | | | | | |
| Operating Temperature | | | 0 - 50°C | | |
| Cooling | | | Fan | | |
| Max. Relative Humidity @ 25 (Non Condensing) | | | 95% | | |
| Noise @ 1 Meter | | | 50dB | | |
| Standard Compliance | | | IP20 | | |
| Approx Weight (kg) | | | 9.5 | | |
| Dimension L x W x H (mm) | | | 340X305X190 | | |
| *Specification are subject to change without prior notice due to constant improvement in design & technology. | | | | | |



TECHNICAL SPECIFICATION

| Parameters | | | Rating | | |
|----------------------------------|-------------------------|--------------|--------------------------------|--------------|-----------------------|
| System Model Name | | | OSPP170012PS | OSPP220024PS | |
| Capacity | | | 1500VA | 2000VA | |
| Operating DC Voltage | | | 12V | 24V | |
| Switching Element | | | Mosfet | | |
| Charger Topology | | | Boost Mosfet | | |
| Parameter (Grid) | | | Default Value | | Variable Range |
| Nominal Grid Voltage | | | 230V | | |
| Nominal Frequency | | | 50Hz | | |
| Frequency Range | | | 45-55 Hz ± 1 Hz | | |
| Battery Charging Method 4 Stage | | | Bulk/Absorption/Float/Equalize | | |
| Grid - Battery Charging | TUB (Default) | Boost | 14.4V ± 0.2V (Each Battery) | | 13.8V-15V |
| | | Float | 13.8V ± 0.2V (Each Battery) | | 13V-14.2V |
| Grid - Battery Charging | SMF | Boost | 14.2V ± 0.2V (Each Battery) | | 13.5V-14.2V |
| | | Float | 13.8V ± 0.2V (Each Battery) | | 13.5V-14.2V |
| Grid - Battery Charging Current | Enable | Default | 15A ± 1A | | 5A-18A |
| | | Maximum | 18A ± 1A | | |
| | Disable | Normal/Boost | Charging Current 0.0A | | |
| Grid Reconnect @ Battery Voltage | | | 11.7V ± 0.2V (Each Battery) | | 11V-12.5V |
| Grid Low Cut Voltage | UPS Mode Enable | | 170V ± 10V | | |
| | UPS Mode Disable | | 100V ± 10V | | |
| Grid Low Cut Recovery | UPS Mode Enable | | 180V ± 10V | | |
| | UPS Mode Disable | | 110V ± 10V | | |
| Grid High Cut Voltage | UPS Mode Enable | | 265V ± 10V | | |
| | UPS Mode Disable | | 290V ± 10V | | |
| Grid High Cut Recovery | UPS Mode Enable | | 255V ± 10V | | |
| | UPS Mode Disable | | 280V ± 10V | | |
| Changeover (Batt. To Mains) | UPS Mode Enable/Disable | | <6ms/<6ms | | |
| Changeover (Mains To Batt.) | UPS Mode Enable/Disable | | <6ms/<30ms | | |
| DG Mode | Enable/Disable | | Disable | | |
| Parameter (Battery Mode) | | | | | |
| Output Phase | | | 1 Phase | | |
| Output Waveform | | | Sinewave | | |
| Nominal Output Voltage | | | 220V ± 5% | | |
| Maximum Bulb Load | | | 1100 watt | 1500 watt | |
| Discharging Current | | | 85A ± 2A | 50A ± 2A | |
| Nominal Frequency | | | 50Hz ± 1% | | 50-60 Hz |
| Battery Low Buzzer | | | 10.8V ± .02V (Each Battery) | | Battery Low Cut +0.3V |
| Battery Low Cut | | | 10.5V ± .02V (Each Battery) | | 10V - 11.5V |
| Battery High Cut | | | 16.5V ± .02V (Each Battery) | | 16.5V - 17.5V |



TECHNICAL SPECIFICATION

| Parameters | | | Rating | |
|---|------------------------|---|---|--|
| Typical Efficiency | | | ≥ 77% | ≥ 80% |
| Voltage Harmonic | | | < 3% (Linear Load) | |
| Over Load Capacity | UPS Mode Disable | >110% 3-Times Auto Reset with 30Sec. Delay and 4th Time Shut Down | | |
| | UPS Mode Enable | >110% 1st Time Shut Down after 30 Sec Delay. | | |
| | >150% Output Goes Down | | | |
| Protection | | | Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, PV Low, Mains Fuse Trip, Grid Overload, Over Charging, Grid Frequency Out of Range | |
| Switches and LED Indication | S.No. | Switch | Function(s) | Switch Led Status |
| | 1 | POWER | ON/OFF the UPS Output | SYSTEM ON - Led ON SYSTEM OFF - Led OFF |
| | 2 | INV/UPS | When it is short pressed it enables UPS/Inverter Mode Selection. When it is Long pressed Enables | UPS Mode ON - Led ON UPS Mode OFF - Led OFF |
| | 3 | SMF/TUB | When it is short pressed it enables TUBULAR or SMF Battery Selection. | TUBULAR Battery - Led ON SMF Battery - Led OFF |
| | 4 | HYBRID/PCU | When it is Short pressed it Enables the Hybrid or PCU Mode | PCU Mode - Led ON HYBRID Mode - Led OFF |
| | 5 | ONLY LED | Solar status Green/Red | Green LED ON - Full Solar Used Green LED Blinking – Partial Solar Used Green LED OFF - No Solar Used Red LED ON – PV Reverse Protection Red LED OFF – No Protection Selected |
| Display | | | Battery Voltage, Solar Charging current, Grid Charging current, Solar Load Current, Grid Voltage, | |
| Parameter (Solar) | | | | |
| Switching Element | | | Mosfet | |
| Operating Mode | | | HYBRID/PCU LITE/ PCU ULTRA Hybrid | |
| Type of Charger | | | PWM | |
| SPV Charging Voltage | TUB | Boost | 15V ± .02V (Each Battery) 14.2V ± .02V (Each Battery) 14.3V ± .02V (Each Battery) 13.9V ± .02V (Each Battery) | |
| | | Float | 14.2V - 15.5V 13.8V - 14.5V | |
| SPV Charging Voltage | SMF | Boost | 14.3V - 14.5V | |
| | | Float | 13.5V - 14.5V 13.5V - 14V | |
| Efficiency | | | ≥ 97% | |
| Solar Current MIN. | | | >1A (Below 1A, System will act like Solar Absent) | |
| Solar Current MAX. | | | 50A | |
| Input Voltage Range (Min - Max) Voc | | | 17V - 25V | 31V - 45V |
| Maximum PV Power Recommended | | | 900W | 1800W |
| Parameter (Environment) | | | | |
| Operating Temperature | | | 0 - 50°C | |
| Cooling | | | Fan | |
| Max. Relative Humidity @25°C (Non Condensing) | | | 95% | |
| Noise @ 1 Meter | | | 50dB | |
| Standard Compliance | | | IP20 | |
| Weight (kg) | | | 11.6 | 15.6 |
| Dimension L x W x H (mm) | | | 3390X335X225 | 395X385X270 |

*Specification are subject to change without prior notice due to constant improvement in design & technology.



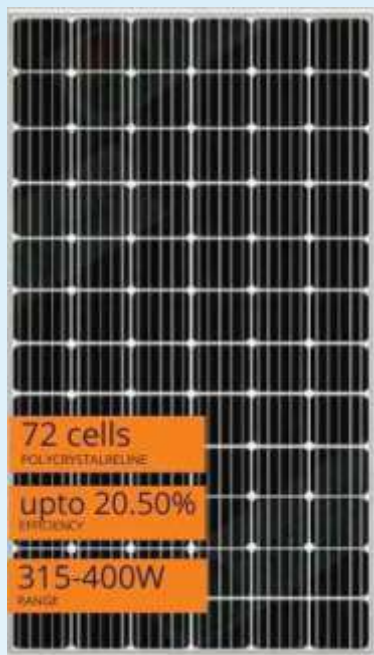
Description

Solar PV modules are known for its high durability and reliability, our range is widely demanded in the market is extensively used for various power applications. A PV module consists of many PV cells wired in parallel to increase current and in series to produce a higher voltage. The module is encapsulated with tempered glass on the front surface, and with a protective and waterproof material on the back surface. The edges are sealed for weatherproofing, and there is often an aluminum frame holding everything together in a mountable unit. In the back of the module there is a junction box, or wire leads, providing electrical connections.

Description

- Excellent module efficiency – 16.25%
- Positive power tolerance – up to 4.99 watt
- PID Resistant
- High Durability
- Anti Reflective coated Glass
- 25 years Performance Warranty
- 10 years Product Warranty.



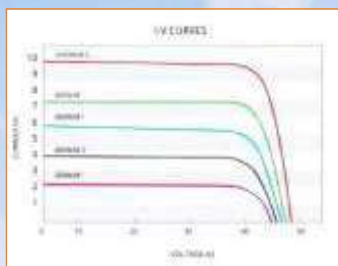
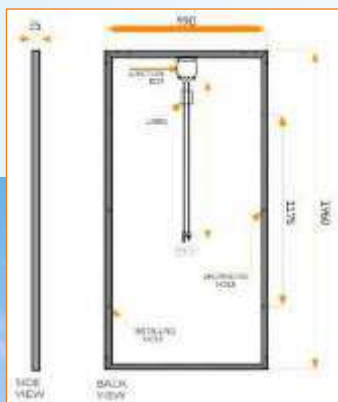


MECHANICAL DATA

| | |
|------------------|--|
| Cell Type | : 157mm x 157mm |
| Cell Arrangement | : 72Cells / 60 Cells in series |
| Dimensions | : 1960 x 990 x 40/35mm / 1645 x 990 x 35mm |
| Weight | : 22.00kg / 18.00 kg |
| Front Cover | : 3.2 mm tempered glass |
| Frame Material | : Anodized Aluminium Alloy |
| J-Box | : IP68, 3 diodes |
| Cable | : 4mm2 |

Module

370-400 W (72 Cells)
310-320 W (60 Cells)



ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m², Cells Temperature 25 C)

| Model Type | : SNS-310 | SNS-320 | SNS-370 | SNS-380 | SNS-390 | SNS-400 |
|---------------------------------|------------------------------|---------|---------|---------|---------|---------|
| Nominal Max. Power (Pmax) | : 310W | 320W | 370W | 380W | 390W | 400W |
| Optimum Operating voltage (Vmp) | : 33.05V | 33.80V | 40.90V | 41.50V | 41.95V | 42.01V |
| Optimum Operating Current (Imp) | : 9.30A | 9.46A | 9.10A | 9.20A | 9.61A | 9.72A |
| Open Circuit Voltage (Voc) | : 40.56V | 41.13V | 48.20V | 48.25V | 49.28V | 49.3W |
| Short Circuit Current (Isc) | : 9.85A | 9.96A | 9.70A | 9.83A | 10.16A | 10.30A |
| Module Efficiency (%) | : 19.00% | 19.59% | 19.02% | 19.50% | 20.10% | 20.50% |
| Power Tolerance | : 0 to +6W | | | | | |
| Maximum System Voltage | : DC 1000V / 1500V | | | | | |
| Operating Temperature | : -40 C - +85 C | | | | | |
| Maximum Series Fuse Rating | : 20A Number of Bypass Diode | | | | | |
| Number of Bypass Diode | : 3 | | | | | |



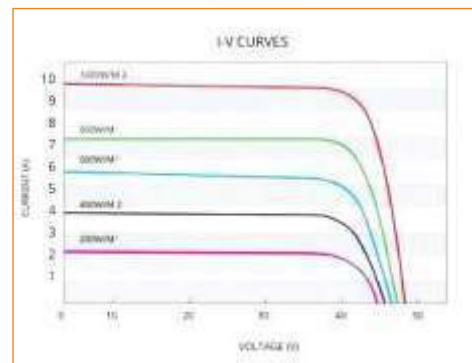
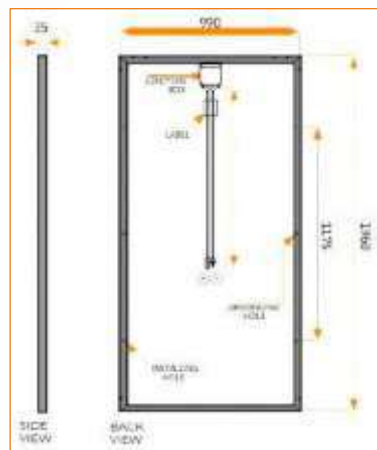


Module

315 W-350W (72 Cells)

MECHANICAL DATA

| | |
|------------------|----------------------------|
| Cell Type | : 157mm x 157mm |
| Cell Arrangement | : 72 Cells in series |
| Dimensions | : 1965 X 990 X 40/35 mm |
| Weight | : 22.00kg |
| Front Cover | : 3.2 mm tempered glass |
| Frame Material | : Anodized Aluminium Alloy |
| J-Box | : IP68, 3 diodes |
| Cable | : 4mm ² |



ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m², Cells Temperature 25 C)

| Model Type | : SNS-320 | SNS-320 | SNS-325 | SNS-330 | SNS-335 | SNS340 | SNS-350 |
|---------------------------------|-----------|---------------|---------|---------|---------|--------|---------|
| Nominal Max. Power (Pmax) | : 315W | 320W | 325W | 330W | 335W | 340W | 350W |
| Optimum Operating voltage (Vmp) | : 37.48V | 37.78V | 38.10V | 38.42V | 37.99V | 38.25V | 38.76V |
| Optimum Operating Current (Imp) | : 8.41A | 8.47A | 8.53A | 8.59A | 8.82A | 8.91A | 9.03A |
| Open Circuit Voltage (Voc) | : 45.07V | 45.29V | 45.50V | 45.79V | 45.80V | 45.13V | 45.73V |
| Short Circuit Current (Isc) | : 8.80A | 8.87A | 8.94A | 9.01A | 9.30A | 45.13V | 9.50A |
| Module Efficiency (%) | : 16.11 | 16.37 | 16.62 | 16.88 | 17.13 | 17.39 | 17.90 |
| Power Tolerance | : | 0 to +6W | | | | | |
| Maximum System Voltage | : | DC 1500V | | | | | |
| Operating Temperature | : | -40 C - +85 C | | | | | |
| Maximum Series Fuse Rating | : | 20A | | | | | |
| Number of Bypass Diode | : | 3 | | | | | |

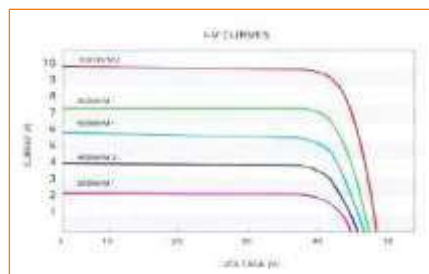


Module

250 W-270 W (60 Cells)

MECHANICAL DATA

| | |
|------------------|--|
| Cell Type | : 157mm x 157mm |
| Cell Arrangement | : 72Cells / 60 Cells in series |
| Dimensions | : 1960 x 990 x 40/35mm / 1645 x 990 x 35mm |
| Weight | : 22.00kg / 18.00 kg |
| Front Cover | : 3.2 mm tempered glass |
| Frame Material | : Anodized Aluminium Alloy |
| J-Box | : IP68, 3 diodes |
| Cable | : 4mm2 |



ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m2, Cells Temperature 25°C)

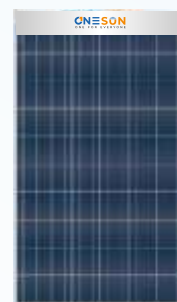
| Model Type | : SNS-250 | SNS-255 | SNS-260 | SNS-265 | SNS-270 |
|---------------------------------|-----------|---------|-------------|---------|---------|
| Nominal Max. Power (Pmax) | : 250W | 255W | 260W | 265W | 270W |
| Optimum Operating voltage (Vmp) | : 30.30V | 30.72V | 31.06V | 31.40V | 32.46V |
| Optimum Operating Current (Imp) | : 8.254A | 8.30A | 8.37A | 8.44A | 8.48A |
| Open Circuit Voltage (Voc) | : 37.08V | 37.26V | 37.50V | 37.68V | 38.16V |
| Short Circuit Current (Isc) | : 8.67A | 8.78A | 8.83A | 8.85A | 8.96A |
| Module Efficiency (%) | : 15.35 | 15.66 | 15.96 | 16.27 | 16.58 |
| Power Tolerance | : | | 0 to +6W | | |
| Maximum System Voltage | : | | DC 1000V | | |
| Operating Temperature | : | | -40C - +85C | | |
| Maximum Series Fuse Rating | : | | 20A | | |
| Number of Bypass Diode | : | | 3 | | |



MODULE
200W-220W



MODULE
160W



MODULE
100W-110W

| MECHANICAL DATA | MODULE : 200-220W | MODULE : 160W | MODULE : 100W-110W |
|------------------|-------------------------------|--------------------------|--------------------------|
| Cell Type | : 104mm x 156.75mm | 78.37mm x 156.75mm | 104/52mm x 156.75mm |
| Cell Arrangement | : 72 Cells in series | 72 Cells in series | 36/72 Cells in series |
| Dimensions | : 1335x990x35mm 1490x670x35mm | 1010x665x30mm | |
| Weight | : 13.50kg | 12kg | 7.8kg |
| Front Cover | : 3.2 mm tempered glass | 3.2 mm tempered glass | 3.2 mm tempered glass |
| Frame Material | : Anodized Aluminium Alloy | Anodized Aluminium Alloy | Anodized Aluminium Alloy |
| J-Box | : IP68, 3 diodes | IP67, 2 diodes | IP67, 2 diodes |
| Cable | : 4mm ² | 4mm ² | |

ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC: AM=1.5, 1000W/m², Cells Temperature 25°C)

| Model Type | : SNS-220 | SNS-200 | SNS-160 | SNS-110 | SNS-100 |
|--|-----------|---------|-------------|---------|---------|
| Nominal Max. Power (P _{max}) | : 220W | 200W | 160W | 110W | 100W |
| Optimum Operating voltage (V _{mp}) | : 19.35V | 19.04V | 19.35V | 19.00V | 18.95V |
| Optimum Operating Current (I _{mp}) | : 11.37A | 10.09A | 8.46A | 5.69A | 5.29A |
| Open Circuit Voltage (V _{oc}) | : 23.69V | 23.39V | 23.01V | 22.97V | 22.68V |
| Short Circuit Current (I _{sc}) | : 11.97A | 11.06A | 8.84A | 5.99A | 5.53A |
| Module Efficiency (%) | : 16.52 | 15.02 | 15.83 | 15.91 | 14.46 |
| Power Tolerance | : | | 0 to +6W | | |
| Maximum System Voltage | : | | DC 1000V | | |
| Operating Temperature | : | | -40C - +85C | | |
| Maximum Series Fuse Rating | : 20A | 20A | 10A | 10A | 10A |
| Number of Bypass Diode | : 3 | 3 | 2 | 2 | 2 |



**MODULE
160W**



**MODULE
150W**



**MODULE
140W**



**MODULE
120W**

| MECHANICAL DATA | MODULE : 200-220W | MODULE : 160W | MODULE : 100W-110W | MODULE : 100W-110W |
|------------------|----------------------------|--------------------------|--------------------------|--------------------------|
| Cell Type | : 156 75mm x 156.75mm | 156.75mm x 156.75mm | 136mm x 156 75mm | 120mm x 156.75mm . |
| Cell Arrangement | : 36 Cells in series | 36 Cols in series | 36 Celts in series 1 | 36 Cells in series |
| Dimensions | : 1490x670x35mm | 1490x670x35mm | 305x 665 x 35 mm | 1165x 665 x 35 mm |
| Weight | : 12kg | 112kg | 10.5kg | 9.5kg |
| Front Cover | : 3.2 mm tempered glass | 3.2 mm tempered glass | 3.2 mm tempered grass | 3.2 mm tempered glass |
| Frame Material | : Anooized Aluminium Alloy | Anodized Aluminium Alloy | Anodized Aluminium Alloy | Anodized Aluminium Alloy |
| J-Box | : 1P67, 2 diodes | 1P67, 2 diodes | Ip67, 2 diodes | IP67, 2 diodes |

ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m2, Cells Temperature 25°C)

| Model Type | : | SNS-160 | SNS-150 | SNS-140 | SNS-120 |
|---------------------------------|---|-------------|---------|---------|---------|
| Nominal Max. Power (Pmax) | : | 160W | 150W | 140W | 120W |
| Optimum Operating voltage (Vmp) | : | 18.89V | 18.18V | 19.03V | 18.71V |
| Optimum Operating Current (Imp) | : | 8.47A | 8.25A | 7.36A | 6.42A |
| Open Circuit Voltage (Voc) | : | 22.64V | 22.25V | 22.721V | 22.54V |
| Short Circuit Current (Isc) | : | 8.87A | 8.67A | 7.72A | 6.7A |
| Module Efficiency (%) | : | 16.45 | 15.14 | 16.07 | 15.49 |
| Power Tolerance | : | 0 to +6W | | | |
| Maximum System Voltage | : | DC 1000V | | | |
| Operating Temperature | : | -40C - +85C | | | |
| Maximum Series Fuse Rating | : | 10A | 10A | 10A | 10A |
| Number of Bypass Diode | : | 2 | 2 | 2 | 2 |



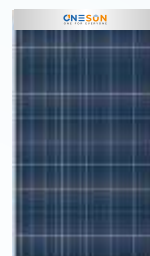
**MODULE
80W**



**MODULE
75W**



**MODULE
60W**



**MODULE
50W**



**MODULE
40W**

| MECHANICAL DATA | MODULE : 80W | MODULE : 75W | MODULE : 60W | MODULE : 50W | MODULE : 40W |
|------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Cell Type | : 156.75mm x 156.75mm | 156.75mm x 156.75mm | 136mm x 156.75mm | 120mm x 156.75mm . | 120mm x 156.75mm . |
| Cell Arrangement | : 36 Cells in series | 36 Cols in series | 36 Celts in series 1 | 36 Cells in series | 36 Cells in series |
| Dimensions | : 1490x670x35mm | 1490x670x35mm | 305x 665 x 35 mm | 1165x 665 x 35 mm | 1165x 665 x 35 mm |
| Weight | : 12kg | 112kg | 10.5kg | 9.5kg | 9.5kg |
| Front Cover | : 3.2 mm tempered glass | 3.2 mm tempered glass | 3.2 mm tempered glass | 3.2 mm tempered glass | 3.2 mm tempered glass |
| Frame Material | : Anooized Aluminium Alloy | Anodized Aluminium Alloy | Anodized Aluminium Alloy | Anodized Aluminium Alloy | Anodized Aluminium Alloy |
| J-Box | : 1P67, 2 diodes | 1P67, 2 diodes | 1p67, 2 diodes | IP67, 2 diodes | IP67, 2 diodes |

ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m2, Cells Temperature 25°C)

| Model Type | : | SNS-80 | SNS-75 | SNS-60 | SNS-50 | SNS-40 |
|---------------------------------|---|-------------|--------|--------|--------|--------|
| Nominal Max. Power (Pmax) | : | 80W | 75W | 60W | 50W | 40W |
| Optimum Operating voltage (Vmp) | : | 19.35V | 19.04V | 19.35V | 19.00V | 18.95V |
| Optimum Operating Current (Imp) | : | 11.37A | 10.09A | 8.46A | 5.69A | 5.29A |
| Open Circuit Voltage (Voc) | : | 23.69V | 23.39V | 23.01V | 22.97V | 22.68V |
| Short Circuit Current (Isc) | : | 11.97A | 11.06A | 8.84A | 5.99A | 5.53A |
| Module Efficiency (%) | : | 16.52 | 15.02 | 15.83 | 15.91 | 14.46 |
| Power Tolerance | : | 0 to +6W | | | | |
| Maximum System Voltage | : | DC 1000V | | | | |
| Operating Temperature | : | -40C - +85C | | | | |
| Maximum Series Fuse Rating | : | 20A | 20A | 10A | 10A | 10A |
| Number of Bypass Diode | : | 3 | 3 | 2 | 2 | 2 |



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