

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 vide 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



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



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. One sun 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.



Solar PCU



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.



Solar PCU-MPPT



| | | | TECHNICAL SPECIFICA | TION | |
|--------------------------------|-----------------|---------------|---------------------|-----------------------|----------------|
| Parameters | | | Ratir | ng | |
| System Model Na | me | | OSPP110012MS | OSPP2500MS | |
| Capacity | | | 1000VA | | |
| Operating DC Vo | tage | | 12V | | |
| SwUPSching Elen | nent | | Mosfe | | |
| Charger Topology | / | | Boost Mo | | |
| Parameter (0 | Grid) | | Default ' | Value | Variable Range |
| Nominal Grid Vol | tage | | 230\ | / | |
| Nominal Frequen | су | | 50Hz | | |
| Frequency Range | | | 45-55 Hz : | ± 1 Hz | |
| Battery Charging | Method 4 Stage | | Bulk/Absorption/F | Float/Equalize | |
| Grid - Battery | TUB (Default) | Boost | 14.4V ± 0.2V (Ea | | 13.8V-15V |
| Charging | . DD (DC:Gdit) | Float | 13.8V ± 0.2V (Ea | | 13V-14.2V |
| Grid - Battery | SMF | Boost | 14.2V ± 0.2V (Ea | | 13.5V-14.2V |
| Charging | | Float | 13.8V ± 0.2V (Ea | | 13.5V-14.2V |
| Grid - Battery | Enable | Default | 12A ± 1A | 15A ± 1A | 5A-18A |
| Charging | D: 11 | Maximum | 15A ± 1A | 18A ± 1A | |
| Current | Disable | Normal/Boost | Charging Cur | 111/ 12 51/ | |
| Grid Low Cut | onnect @ Batter | de Enable | 11.7V ± 0.2V (Ea | | 11V-12.5V |
| Voltage | | de Disable | 170V ± 100V ± | | |
| Grid Low Cut | | de Enable | 180V ± | | |
| Recovery | | de Disable | 110V ± | | |
| Grid High Cut | | de Enable | 265V ± | | |
| Voltage | | de Disable | 290V ± | | |
| Grid High Cut | | de Enable | 255V ± | | |
| Recovery | | de Disable | 280V ± | | |
| Changeover | | | | | |
| (Batt. To Mains) | UPS Mode E | nable/Disable | <5ms | 5 | |
| Changeover (Mains To Batt.) | ~ I | | <12m | S | |
| DG Mode | Enable | /Disable | Disab | le | |
| Parameter (E | Battery Mod | e) | | | |
| Output Phase | | | 1 Phas | se | |
| Output Waveform | | | Sinewa | | |
| Nominal Output \ | | | 220V ± | 5% 2000 watt | |
| Maximum Bulb Lo | | | 800 watt | | |
| Discharging Curre | | | 55A ± 2A | | |
| Nominal Frequen | • | | 50Hz ± | 50-60 Hz | |
| Battery Low Buzz | er | | 10.8V ± .02V (E | Battery Low Cut +0.3V | |
| Battery Low Cut | | | 10.5V ± .02V (E | 77 | 10V - 11.5V |
| Battery High Cut | | | 16.5V ± .02V (E | 16.5V - 17.5V | |



Solar PCU-MPPT



| | | TECHNICA | L SPECIFICA | TION | | | | | |
|---|---|---|--|---------------------------------------|--|--|--|--|--|
| Parameters | | | Ratin | g | | | | | |
| Typical Efficiency | ≥ 7 | 77% | | ≥ 829 | % | | | | |
| Voltage Harmonic | | | < 3% (Linea | r Load) | | | | | |
| | UPS Mode >110% 3-Times Auto Reset wUPSh 30Sec. Delay and 4th Time Shut Down Disable | | | | | | | | |
| Over Load CapacUPSy | UPS Mode | | | | | | | | |
| | | | >150% Output (| Goes Down | | | | | |
| Protection | 1 | | • | | cuit, PV Reverse, PV High, PV requency Out of Range | | | | |
| | S.No. | Switch | Functi | ion(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 enables UPS/Inve Selection. When it is Long I the UPS Paramet | erter Mode oressed 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 | | | | |
| Switches and LED Indication | 4 | When it is Short pressed 4 HYBRID/PCU Enables the Hybrid or PC Selection. | | | PCU Mode - Led ON HYBRID Mode - Led OFF | | | | |
| | 5 | ONLY LED | Solar status Gree | en/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 | Voltage, Grid Fr Solar, Charging | equency, Output Mode, Protection | Voltage, Output I | Frequency,Load i e, Solar Kwh(Savi | t, Solar Load Current, Grid n % on Battery, Load in % on ng),Solar availability Status, I, 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 Condensin | | | 95% | | | | | | |
| Noise @ 1 Meter | | | 50dB | | | | | | |
| Standard Comliance | | | IP20 | | | | | | |
| *Specification are subject to change wUPShout pri | or notice due to o | constant improve | | | | | | | |





| | | | TECHNICAL SPECIFICATION | | | | | | | | | |
|--------------------------------|----------------------------------|----------------------------|---------------------------------|-----------------------|------------|---|------------|---|------------------|--|------------|--|
| Parameters | | | Rating | | | | | | | | | |
| System Model Na | me | | OSPP110012PS | | | | | | | | | |
| Capacity | | | 850VA | | | | | | | | | |
| Operating DC Vol | tage | | 12V | | | | | | | | | |
| Switching Elemen | t | | Mosfet | | | | | | | | | |
| Charger Topology | | | Boost Mosfet | | | | | | | | | |
| Parameter (G | irid) | | Default Value | Variable Range | | | | | | | | |
| Nominal Grid Volt | age | | 230V | | | | | | | | | |
| Nominal Frequenc | су | | 50Hz | | | | | | | | | |
| Frequency Range | | | 45-55 Hz ± 1 Hz | | | | | | | | | |
| Battery Charging | Method 4 Stage | | Bulk/Absorption/Float/Equalize | | | | | | | | | |
| Grid - Battery | TUB (Default) | Boost | 14.4V ± 0.2V (Each Battery) | | | | | | | | | |
| Charging | TOD (Deladit) | Float | $13.8V \pm 0.2V$ (Each Battery) | | | | | | | | | |
| Grid - Battery | SMF | Boost | 14.2V ± 0.2V (Each Battery) | | | | | | | | | |
| Charging | 51411 | Float | 13.8V ± 0.2V (Each Battery) | | | | | | | | | |
| Grid - Battery | Enable | Default | 12A ± 1A | | | | | | | | | |
| Charging | | Maximum | 12A ± 1A | _ | | | | | | | | |
| Current | Disable | Normal/Boost | Charging Current 0.0A | | | | | | | | | |
| | nnect @ Battery | | 11.7V ± 0.2V (Each Battery) | | | | | | | | | |
| Grid Low Cut | | | 170V ± 10V | - | | | | | | | | |
| Voltage | UPS Mode Disable UPS Mode Enable | | 100V ± 10V | - | | | | | | | | |
| Grid Low Cut Recovery | | | 180V ± 10V 110V ± 10V | - | | | | | | | | |
| Grid High Cut | UPS Mode Disable UPS Mode Enable | | 265V ± 10V | - | | | | | | | | |
| Voltage | | | | | | | * | | UPS Mode Disable | | 290V ± 10V | |
| Grid High Cut | | UPS Mode Enable 255V ± 10V | | | | | | | | | | |
| Recovery | · | | • | | | | 280V ± 10V | - | | | | |
| Changeover | , | | , | | 2007 2 107 | - | | | | | | |
| (Batt. To Mains) | UPS Mode Er | nable/Disable | <6ms/<6ms | | | | | | | | | |
| Changeover (Mains To Batt.) | UPS Mode Er | nable/Disable | <6ms/<30ms | | | | | | | | | |
| DG Mode | Enable/ | 'Disable | Disable | | | | | | | | | |
| Parameter (B | attery Mode | e) | | | | | | | | | | |
| Output Phase | | | 1 Phase | | | | | | | | | |
| Output Waveform | | | Sinewave | | | | | | | | | |
| | Nominal Output Voltage | | 220V ± 5% | | | | | | | | | |
| Maximum Bulb Lo | | | 560 watt | | | | | | | | | |
| Discharging Curre | | | 55A ± 2A | | | | | | | | | |
| Nominal Frequenc | | | 50Hz ± 1% | | | | | | | | | |
| Battery Low Buzze | er | | 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 | | | | | | | | |





| 1 POWER ON/OFF the UPS Output SYSTEM ON - Led OI SYSTEM OFF - Led OI SYSTEM OFF - Led OI UPS Mode OFF - Led OI UPS/Normal Mode Selection UPS Mode OFF - Led OI UPS/Normal Mode Selection UPS Mode OFF - Led OFF OFF OFF OFF OFF OFF OFF OFF OFF OF | | 12 | CITITICALS | I LCII ICA I ICII | | | | | | |
|--|---|------------------------|------------------|------------------------------------|--|--|--|--|--|--|
| Typical Efficiency Voltage Harmonic Vorr Load Capacity Over Load Capacity Disable UPS Mode Enable Vorr Load Capacity Protection Overload, Battery Low, Battery High, Over Temperature, Short CiPM/Reverse, PV High, Over Charging, Grid Frequency Out of F SNO. Switch Function(s) Switch Led Status Switch Led Sunty Led Vision Switch Led Sunty System On - Led On UpS/Normal Mode Selection, UpS Mode OFF - Led On Normal Charging/ High Charging - Led Continuous glow. Switches and LED Indication 4 Overload LED UPS Battery Charging - Battery Charging - Led On Normal C | | | | Dotino | | | | | | |
| Voltage Harmonic Significant Significa | | | | | | | | | | |
| UPS Mode Disable UPS Mode Enable UPS Mode Enable UPS Mode Enable UPS Mode Enable SI 10% 3-Times Auto Reset with 30Sec. Delay and 4th Time Shut Down after 30 Sec Delay. Protection | | | | | | | | | | |
| Over Load Capacity Disable UPS Mode Enable S10% Output Goes Down | | | T | , | | | | | | |
| OverLoad Capacity UPS Mode Enable >150% Output Goes Down Protection | | | >110% 3-Tim | es Auto Reset with 30Sec. Dela | ry and 4th Time Shut Do | | | | | |
| Enable | | | | | | | | | | |
| Protection Overload, Battery Low, Battery High, Over Temperature, Short CiRúReverse, PV High PV Low, Mains Fuse Trip, Grid Overload, Over Charging, Grid Frequency Out of Four Status S.No. Switch Function(s) Switch Led Status 1 POWER ON/OFF the UPS Output SYSTEM ON - Led Of UPS/Normal Mode Selection UPS Mode ON - Led Of OFF 2 Switch UPS/ Normal When it is pressed it enables UPS Mode ON - Led Of OFF 3 NC/HC Charging High Charging High Charging. 4 Overload LED UPS is overload. 4 Overload LED UPS is overload. 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. Parameter (Solar) When it is pressed it enables UPS Mode ON - Led Of NC Charging - Led Of NC Charging - Led Off NC Charging | | | >1 | | 30 Sec Delay. | | | | | |
| Overload, Battery Low, Battery High, Over Temperature, Short CirkUR Reverse, PV High PV Low, Mains Fuse Trip, Grid Overload, Over Charging, Grid Frequency Out of Foundation South Led Status 1 | <u>En</u> | nable | | | · | | | | | |
| Overload, Battery Low, Battery High, Over Temperature, Short CiPWiRgverse, PV High PV Low, Mains Fuse Trip, Grid Overload, Over Charging, Grid Frequency Out of Function(s) S.No. Switch Function(s) Switch Led Status 1 POWER ON/OFF the UPS Output SYSTEM ON - Led OI SYSTEM OFF - Led OI UPS/Mormal Mode Selection UPS Mode OFF - Led OFF 3 NC/HC When it is pressed it enables UPS Mode OFF - Led OFF When it is pressed it enables HC Charging - Led OI UPS/Normal Mode Selection UPS Mode OFF - Led OFF When it is pressed it enables HC Charging - Led OFF Overload LED Normal Charging/ High Charging - Led OIFF Overload LED UPS is overload. 4 Overload LED UPS is overload. 5 Charging LED Battery Charging. Battery Charging - Led OIN Battery Charging. Battery Charging - Led ON Battery Condition. Battery Low LED UPS Battery Condition. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. Mains Condition. Parameter (Solar) Witching Element Mosfet | | >150% Output Goes Down | | | | | | | | |
| PV Low, Mains Fuse Trip, Grid Overload, Over Charging, Grid Frequency Out of F S.No. Switch 1 POWER ON/OFF the UPS Output SYSTEM ON - Led OI SYSTEM OFF - Led OI SYSTEM OFF - Led OI | ion | | | | | | | | | |
| S.No. Switch Punction(s) Switch Led Status 1 POWER ON/OFF the UPS Output SYSTEM OF - Led OI SYSTEM OFF - Led OI O | Ov | Overload, Batte | ery Low, Battery | y High, Over Temperature, Shor | t Ci P Wu R everse, PV Hig | | | | | |
| 1 POWER ON/OFF the UPS Output SYSTEM ON - Led OI SYSTEM OFF - Led OI OFF - Led OI OFF - Led OI UPS/Normal Mode Selection UPS Mode OFF - Led OI UPS/Normal Mode Selection UPS Mode OFF - Led OI UPS/Normal Mode Selection UPS Mode OFF - Led OI | | PV Low, Ma | ins Fuse Trip, G | rid Overload, Over Charging, G | rid Frequency Out of Ra | | | | | |
| Switch UPS/ Normal 2 Switch UPS/ Normal When it is pressed it enables UPS Mode ON - Led Or OFF OFF OFF OFF OFF OFF OFF OFF OFF | L | S.No. | Switch | Function(s) | Switch Led Status | | | | | |
| Switch UPS/ Normal 2 Switch UPS/ Normal When it is pressed it enables UPS Mode OR - Led OFF UPS/Normal Mode Selection UPS Mode OFF - Led OFF When it is pressed it enables UPS Mode OFF - Led OFF UPS/Normal Mode Selection UPS Mode OFF - Led OFF When it is pressed it enables HC Charging - Led OFF OFF Overload LED OFF Charging. Overload LED UPS is overload. 4 Overload LED UPS is overload. UPS is overload. Deep. UPS Shortcircui Led Continuous glow. 5 Charging LED Battery Charging. Battery Charging - Led ON Battery Low Led ON with Beap. Battery Low Led ON with Beep. Battery Low Cut - Led ON wit | | _ | 551455 | | SYSTEM ON - Led ON | | | | | |
| Switch UPS/ Normal 2 Switch UPS/ Normal When it is pressed it enables UPS Mode ON - Led OFF When it is pressed it enables UPS Mode OFF - Led OFF 3 NC/HC When it is pressed it enables UPS Mode OFF - Led OFF Normal Charging - Led OFF Overload LED INDICATE - Led Blinking without Beep. UPS Shortcircuit Led Continuous glow. 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 6 Battery Low LED When it is pressed it enables UPS Mode ON - Led OFF OFF OVERLOAD - Led OFF Overload LED BHC Charging - Led OFF Blink Battery Continuous glow. Battery Charging - Led ON with Beep. Battery Low Led ON with Beep. OFF OVERLOAD - Led ON with Beep. Battery Low Cut - Led ON without Beep. Grid in Range- Led OFF Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) When it is pressed it enables UPS Mode ON - Led OFF When it is pressed it enables UPS Mode ON - Led OFF When it is pressed it enables UPS Mode ON - Led OFF Normal Mode Selection UPS Mode ON - Led OFF With Beep. Battery Charging - Led OFF Buttery Low Cut - Led ON without Beep. Grid in Range- Led OFF Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) When it is pressed it enables UPS Mode OFF - Led OFF When it is pressed it enables UPS Mode OFF - Led OFF With Beep. Battery Charging - Led OFF Battery Low - Led ON with Beep. Grid in Range- Led OFF Fuse Trip and UPS off Led Continuous glow. | | 1 | POWER | ON/OFF the UPS Output | SYSTEM OFF - Led OF | | | | | |
| 2 Switch UPS/ Normal UPS/Normal Mode Selection UPS Mode OFF - Led OFF | | | | When it is present it analysis | | | | | | |
| Normal Normal Normal Normal Substitution Normal Charging - Led Ol NC Charging - Led Ol NC Charging - Led Ol NC Charging - Led Off Off Off Off Off Off Off Off Off Of | | 2 | Switch UPS/ | • | | | | | | |
| NC/HC Normal Charging - Led OI NC Charging - Led OFF 4 Overload LED UPS is overload. 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. 8 HC Charging - Led OI NC Charging - Led Blinking withou Beep. UPS Shortcircui Led Continuous glow. 9 Hattery Low Cut - Led ON With Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Blinking without Beep. 9 Grid in Range- Led OI Fuse Trip - Led Continuous glow. | | 2 | Normal | UPS/Normal Mode Selection. | | | | | | |
| NC Charging - Le OFF Overload LED UPS is overload. Overload LED Indication Overload LED Indication Overload LED Indication Charging LED Battery Charging. Battery Charging - Le Blinking withou Beep. UPS Shortcircui Led Continuous glow. Charging LED Battery Charging. Battery Solar Charge Led ON Battery Low Led ON With Beep. Battery Low Cut - Lec ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Grid in Range- Led O Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) Switching Element Mosfet | | | | | | | | | | |
| Charging. OPF Overload LED UPS is overload. 4 Overload LED UPS is overload. 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. Mains Condition. Parameter (Solar) Switching Element Overload LED UPS is overload. Battery Charging - Led Blinking withou Beep. UPS Shortcircui Led Continuous glow. Battery Charging - Led ON With Beep. Battery Low Cut - Led ON with Beep. Battery Low Cut - Led ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Blinking without Beep. Grid in Range- Led O Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) | | | | l · | 0 0 | | | | | |
| Charging. 4 Overload LED UPS is overload. 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. Charging. Overload - Led Blinking without Beep. Battery Charging - Led ON with Beep. Battery Low - Led ON with Beep. Battery Low Cut - Led ON without Beep. Grid in Range - Led OF Fuse Trip - Led Blinking without Beep. Bright Battery Low Cut - Led ON without Beep. Grid in Range - Led OF Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) Switching Element Mosfet | | 3 | NC/HC | I | | | | | | |
| with Beep. Overload LED UPS is overload. 4 Overload LED UPS is overload. 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. With Beep. Battery Low- Led ON with Beep. Battery Low Cut - Led ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Battery Low Cut - Led ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Battery Low Cut - Led ON with Beep. Ba | | | | Charging. | OFF | | | | | |
| With Beep. Overload LED UPS is overload. 4 Overload LED UPS is overload. 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. With Beep. Battery Low- Led ON with Beep. Battery Low Cut - Led ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Battery Low Cut - Led ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) Switching Element Mosfet | <u> </u> | | | | Overload- Led Blinkin | | | | | |
| Overload and shutdow - Led Blinking without Beep. UPS Shortcircuit Led Continuous glow. 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. Mains Condition. Parameter (Solar) Witching Element Overload and shutdow - Led Blinking without Beep. Battery Charging - Led ON With Beep. Battery Low- Led ON With Beep. Battery Low Cut - Led ON With Beep. Brise Trip - Led Blinking without Beep. Brise Trip and UPS off Led Continuous glow. Parameter (Solar) Witching Element Mosfet | | | | | | | | | | |
| A Overload LED UPS is overload. 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. 6 Mains Condition. 6 Mains Condition. 7 Mains LED Mains Condition. 8 Detail of the depth of th | | | | | • | | | | | |
| Switches and LED Indication Charging LED Battery Charging. Charging LED Battery Charging. Battery Charging - Le Blink Battery >90% Charger Led ON Battery Low- Led ON with Beep. Battery Low Cut - Lec ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Grid in Range- Led O Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) Witching Element Mosfet | | | | | | | | | | |
| Switches and LED Indication 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. Mains Condition. Parameter (Solar) Switching Element Ed Continuous glow. Battery Charging - Led Blink Battery >90% Charger Led ON with Beep. Battery Low- Led ON with Beep. Grid in Range- Led OF Fuse Trip - Led Blinking without Beep. Fuse Trip and UPS off Led Continuous glow. Mosfet | | 4 | Overload LED | UPS is overload. | _ | | | | | |
| 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. 8 Battery Low- Led ON with Beep. Grid in Range- Led OFuse Trip - Led Blinking without Beep. Fuse Trip - Led Blinking without Beep. Grid in Range- Led OFuse Trip and UPS off Led Continuous glow. Parameter (Solar) Witching Element Mosfet | es and LED Indication | | | | | | | | | |
| 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. Mains Condition. Blink Battery Low-Led ON with Beep. Battery Low Cut - Led ON without Beep. Grid in Range-Led O Fuse Trip - Led Blinking without Beep Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) witching Element Mosfet | and LED marcation | | | | Lea Continuous giow. | | | | | |
| 5 Charging LED Battery Charging. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. 8 Blink Battery >90% Charger Led ON with Beep. Battery Low Cut - Led ON with Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) witching Element Mosfet | | | | | | | | | | |
| Charging LED Battery Charging. Blink Battery >90% Charger Led ON Battery Low LED UPS Battery Condition. Battery Low- Led ON with Beep. Battery Low Cut - Led ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) witching Element Mosfet | | | | | Battery Charging - Leo | | | | | |
| 6 Battery Low LED UPS Battery Charging. 6 Battery Low LED UPS Battery Condition. 7 Mains LED Mains Condition. Mains Condition. Parameter (Solar) Switching Element Battery >90% Charger Led ON with Beep. Battery Low Cut - Led ON with Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Battery Low Cut - Led ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. Fuse Trip and UPS off Led Continuous glow. Mosfet | | | | | | | | | | |
| Battery Low LED UPS Battery Condition. 6 Battery Low Cut - Led ON with Beep. 6 Grid in Range- Led O Fuse Trip - Led 8 Blinking without Beep. Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) Switching Element Mosfet | | 5 | Charging LED | Battery Charging. | | | | | | |
| Battery Low LE D UPS Battery Condition. Battery Low Led ON with Beep. Battery Low Cut - Led ON with Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep. The Mains Condition. Parameter (Solar) Witching Element Battery Low- Led ON with Beep. Battery Low- Led ON wi | | | | | , | | | | | |
| 6 Battery Low LED UPS Battery Condition. With Beep. Battery Low Cut - Lec ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) with Beep. Battery Low Cut - Lec ON with Beep. Battery Low Cut - Lec ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep Fuse Trip and UPS off Led Continuous glow. | | | | | | | | | | |
| 7 Mains LED Mains Condition. Battery Low Cut - Led ON without Beep. Grid in Range- Led O Fuse Trip - Led Blinking without Beep Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) witching Element Mosfet | | | | | | | | | | |
| 7 Mains LED Mains Condition. Grid in Range- Led O Fuse Trip - Led Blinking without Beep Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) witching Element Mosfet | | 6 Ba | Battery Low LE | D UPS Battery Condition. | • | | | | | |
| 7 Mains LED Mains Condition. Grid in Range- Led O Fuse Trip - Led Blinking without Beep Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) witching Element Mosfet | | | | | • | | | | | |
| 7 Mains LED Mains Condition. Fuse Trip - Led Blinking without Beep Fuse Trip and UPS off Led Continuous glow. arameter (Solar) witching Element Mosfet | | | | | • | | | | | |
| 7 Mains LED Mains Condition. Blinking without Beep Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) witching Element Mosfet | | | | | | | | | | |
| Fuse Trip and UPS off Led Continuous glow. Parameter (Solar) Switching Element Mosfet | | _ | | | • | | | | | |
| Led Continuous glow. Parameter (Solar) witching Element Mosfet | | 7 | Mains LED | Mains Condition. | | | | | | |
| Parameter (Solar) Switching Element Mosfet | | | | | · | | | | | |
| witching Element Mosfet | | | | | Lea Continuous giow. | | | | | |
| witching Element Mosfet | neter (Solar) | | | | | | | | | |
| | | | | Mosfet | | | | | | |
| 175114 | | | | Hybrid | | | | | | |
| ype of Charger PWM | f Charger | | | PWM | | | | | | |
| SPV Charging TUB Boost 14.7V ± .02V (Each Battery) | harging Boost Boost | | 1 | 4.7V ± .02V (Each Battery) | | | | | | |
| Voltage Float 14.2V ± .02V (Each Battery) | tage Float | | 1 | 4.2V ± .02V (Each Battery) | | | | | | |
| SPV Charging SMF Boost 14.3V ± .02V (Each Battery) | harging SME Boost | | | | | | | | | |
| Voltage Float 13.9V ± .02V (Each Battery) | tage Float | | 1 | 3.9V ± .02V (Each Battery) | | | | | | |
| fficiency ≥ 97% | ıcy | | | | | | | | | |
| olar Current MIN. >1A (Below 1A, System will act like Solar Absent) | urrent MIN. | | >1A (Belov | v 1A, System will act like Solar i | Absent) | | | | | |
| olar Current MAX. 30A | | | | | <u> </u> | | | | | |
| put Voltage Range (Min - Max) Voc 17V - 25V | | | | | | | | | | |
| laximum PV Power Recommended 500W | um PV Power Recommended | | | 500W | | | | | | |
| arameter (Environment) | neter (Environment) | | | | | | | | | |
| operating Temperature 0 - 5°C | | | | | | | | | | |
| Cooling Fan | - ' | | | | | | | | | |
| Max. Relative Humidity @ 25 (Non Condensing 95% | | | | | | | | | | |
| Joise @ 1 Meter 50dB | | | | | | | | | | |
| Standard Compliance IP20 | rd Compliance | | | IP20 | | | | | | |
| Approx Weight (kg) 9.5 | | | | 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. | ication are subject to change without prior | or notice due | to constant imp | rovement in design & technolog | 3y. | | | | | |



| TECHN | | DECLE | CATION | |
|-------|---------------|-----------------|--------|--|
| | | | | |
| | Total Control | 1 44 14 19 1 14 | CALIUN | |

| Parameters | | | Ratin | g | | | | | | |
|---------------------------------------|--|-----------------------------|--------------------|--------------------|----------------------|--|--|--|--|--|
| System Model Na | ime | | OSPP170012PS | OSPP220024PS | | | | | | |
| Capacity | | | 1500VA | 2000VA | | | | | | |
| Operating DC Vo | Itage | | 12V | | | | | | | |
| Switching Elemen | anner Warren | | Mosfe | | | | | | | |
| Charger Topology | | | Boost Mo | sfet | | | | | | |
| Parameter (0 | Grid) | | Default V | Default Value | | | | | | |
| Nominal Grid Vol | tage | | 230V | | | | | | | |
| Nominal Frequen | | | 50Hz | | | | | | | |
| requency Range | | | 45-55 Hz ± | 1 Hz | | | | | | |
| Battery Charging | Method 4 Stage | | Bulk/Absorption/Fl | oat/Equalize | | | | | | |
| Grid - Battery | | Boost | 14.4V ± 0.2V (Ea | ch Battery) | 13.8V-15V | | | | | |
| Charging | TUB (Default) | Float | 13.8V ± 0.2V (Ea | the street and the | 13V-14.2V | | | | | |
| Grid - Battery | CAAF | Boost | 14.2V ± 0.2V (Ea | | 13.5V-14.2V | | | | | |
| Charging | SMF | Float | 13.8V ± 0.2V (Ea | 7 NORTH 10 | 13.5V-14.2V | | | | | |
| Grid - Battery | F | Default | 15A ± 1 | 5A-18A | | | | | | |
| Charging | Enable | Maximum | 18A ± 1 | A | | | | | | |
| Current | Disable | Normal/Boost | Charging Curr | | | | | | | |
| Grid Reco | Grid Reconnect @ Battery Voltage Grid Low Cut UPS Mode Enable Voltage UPS Mode Disable | | 11.7V ± 0.2V (Ea | ch Battery) | 11V-12.5V | | | | | |
| Grid Low Cut | | | 170V ± 1 | 0V | | | | | | |
| Voltage | | | 100V ± 1 | 0V | | | | | | |
| Grid Low Cut | UPS Mod | le Enable | 180V ± 1 | | | | | | | |
| Recovery | UPS Mod | e Disable | 110V ± 1 | | | | | | | |
| Grid High Cut | UPS Mod | de Enable | 265V ± 1 | | | | | | | |
| Voltage | UPS Mod | e Disable | 290V ± 1 | 0V | | | | | | |
| Grid High Cut | UPS Mod | de Enable | 255V ± 1 | 0V | | | | | | |
| Recovery | UPS Mod | e Disable | 280V ± 1 | ov | | | | | | |
| Changeover (Batt. To Mains) | UPS Mode Enable/Disable <6ms/<6ms | | | | | | | | | |
| Changeover (Mains To Batt.) | 26 D 20 | | <6ms/<30 | | | | | | | |
| DG Mode | Enable/ | /Disable | Disable | e | | | | | | |
| Parameter (E | Battery Mod | e) | | | | | | | | |
| Output Phase | - | | 1 Phase | e: | | | | | | |
| Output Waveform | | | Sineway | ve | | | | | | |
| Nominal Output | Voltage | 1 | 220V ± 5 | 5% | | | | | | |
| Maximum Bulb Load Discharging Current | | | 1100 watt | | | | | | | |
| | | 9.5 | 85A ± 2A | | | | | | | |
| Nominal Frequen | су | | 50Hz ± 1 | 50-60 Hz | | | | | | |
| Battery Low Buzz | er | | 10.8V ± .02V (Ea | ch Battery) | Battery Low Cut +0.3 | | | | | |
| Battery Low Cut | | 10.5V ± .02V (Each Battery) | | | | | | | | |
| Battery High Cut | | | 16.5V ± .02V (Ea | 16.5V - 17.5V | | | | | | |





| | | | Т | ECHNICAL | SPECIFICATION | | | | | | | |
|-------------------------------------|--|----------------|---|------------------------|--|---|----------------|--|--|--|--|--|
| Parameters | | | Rating | | | | | | | | | |
| Typical Efficiency | 6 | | ≥ 77% ≥ 80% | | | | | | | | | |
| Voltage Harmonic | 0 | | < 3% (Linear Load) | | | | | | | | | |
| | | | UPS Mode >110% 3-Times Auto Reset with 30Sec. Delay and 4th Time Shut Down Disable | | | | | | | | | |
| Over Load Capaci | ity | | UPS Mode >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 | | | | | | | | | |
| | | | 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 | | | | | | |
| Switches and LED Indication | | | 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 Chargin | g current, Grid Charging current, S | olar Load Current, Grid Voltage, | | | | | | |
| arameter (Solar | r) | | N 10 10 | | | | | | | | | |
| witching Elemen | it | | | | Mosfet | | | | | | | |
| nerating Mode | HYBRID/PCU LIT | F/PCIIIITRA | | | Hybrid | | 1 | | | | | |
| Type of Charger | ramb/rcu Li | Ly I CO OLINA | | | PWM | | | | | | | |
| SPV Charging | | Boost | | | 15V ± .02V (Each Battery) | | 14.2V - 15.5V | | | | | |
| Voltage | TUB | Float | i i | | 14.2V ± .02V (Each Battery) | | 13.8V - 14.5V | | | | | |
| SPV Charging | 2400000 | Boost | | | 14.3V ± .02V (Each Battery) | | 13.5V - 14.5V | | | | | |
| Voltage | SMF | Float | | | 13.9V ± .02V (Each Battery) | | 13.5V - 14V | | | | | |
| Efficiency | | 108801155 | Ú | | ≥ 97% | | - Santa Tibili | | | | | |
| Solar Current MIN | E. | | | >1A (Be | low 1A, System will act like Solar | Absent) | 1 | | | | | |
| Solar Current MA | | | | | 50A | | 1 | | | | | |
| Input Voltage Range (Min - Max) Voc | | | 17V - 25V | T T | 31V - 45V | 1 | | | | | | |
| Maximum PV Power Recommended | | | 900W | | 1800W | 1 | | | | | | |
| | invironment) | | VI. | | Att. | | Í | | | | | |
| perating Tempe | Marian San San San San San San San San San S | | | | 0 - 50°C | | | | | | | |
| Cooling | | | | | Fan | | | | | | | |
| Max. Relative Hu | midity @25°C (No | on Condensing) | | | 95% | | 1 | | | | | |
| Noise @ 1 Meter | Action to the last of the last | | î | | 50dB | | 1 | | | | | |
| Standard Compli | - | | | | 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.

Solar Panel



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.

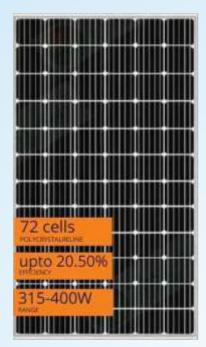
Description

- Excellent module efficiency 16.25%
- Positive power tolerance up to 4.99 watt
- PID Resistant
- High Durability



Monocrystalline





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

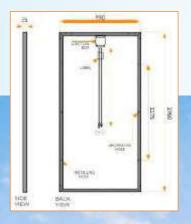
Front Cover : 3.2 mm tempered glass
Frame Material : Anodized Aluminium Alloy

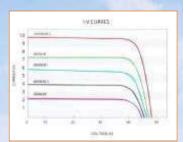
J-Box : IP68, 3 diodes

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 1 | 000V / 15 | 00V | | |
| Operating Temperature | : | | -4 | +0 C - +85 | С | | |
| Maximum Series Fuse Rating | : | 2 | OA Numb | er of Byp | ass Diod | е | |
| Number of Bypass Diode | : | | | 3 | | | |



Polycrystalline





Module

315 W-350W (72 Cells)

MECHANICAL DATA

Cell Type : 157mm x 157mm Cell Arrangement: 72 Cells in series

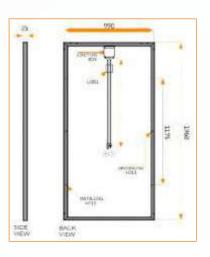
Dimensions : 1965 X 990 X 40/35 mm

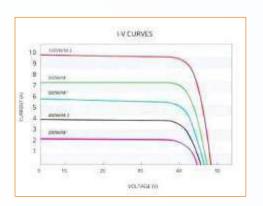
Weight : 22.00kg

Front Cover : 3.2 mm tempered glass
Frame Material : Anodized Aluminium Alloy

J-Box : IP68, 3 diodes

Cable : 4mm2





ELECTRICAL SPECIFICATION

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

| Model Type | : | SNS-320 | 1 | SNS-320 | | SNS-325 | | SNS-330 | SNS-335 | | SNS340 | I | SNS-350 |
|---------------------------------|---|---------|---|---------|---|---------|---|---------|---------|---|--------|---|---------|
| Nominal Max. Power (Pmax) | : | 315W | | 320W | 1 | 325W | 1 | 330W | 335W | | 340W | - | 350W |
| Optimum Operating voltage (Vmp) | : | 37.48V | Ī | 37.78V | - | 38.10V | 1 | 38.42V | 37.99V | | 38.25V | | 38.76V |
| Optimum Operating Current (Imp) | : | 8.41A | T | 8.47A | | 8.53A | T | 8.59A | 8.82A | l | 8.91A | 1 | 9.03A |
| Open Circuit Voltage (Voc) | : | 45.07V | T | 45.29V | | 45.50V | T | 45.79V | 45.80V | l | 45.13V | 1 | 45.73V |
| Short Circuit Current (Isc) | : | 8.80A | T | 8.87A | - | 8.94A | T | 9.01A | 9.30A | l | 45.13V | 1 | 9.50A |
| Module Efficiency (%) | : | 16.11 | | 16.37 | - | 16.62 | 1 | 16.88 | 17.13 | | 17.39 | 1 | 17.90 |
| D T-1 | | | | | | | | 0 +0\4/ | | | | | |

Power Tolerance : 0 to +6W

Maximum System Voltage : DC 1500V

Operating Temperature : -40 C - +85 C







Module

250 W-270 W (60 Cells)

MECHANICAL DATA

Cell Type : 157mm x 157mm

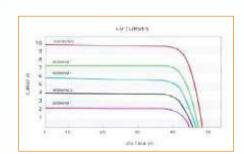
Cell Arrangement: 72Cells / 60 Cells in series

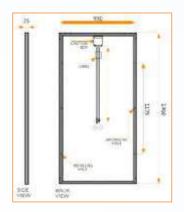
Dimensions : 1960 x 990 x 40/35mm / 1645 x 990 x 35mm

Weight : 22.00kg / 18.00 kgFront Cover : 3.2 mm tempered glassFrame 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 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 1490x670x351 mm | 1010x665x30mnn | |
| 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 | lp67, 2 diodes |
| Cable | : | 4mm2 | 4mm2 | |

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 (Pmax) | : | 220W | 200W | 160W | 110W | 100W |
| 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 |









MODULE 150W



MODULE 140W



MODULE 120W

| MECHANICAL DATA | MODULE : 200-220W | MODULE : 160W | MODULE : 100W-110W | MODULE : 100W-110W |
|---|---|--|---|---|
| Cell Arrangement Dimensions Weight Front Cover Frame Material | : 156 75mm x 156.75mm : 36 Cells in series : 1490x670x35mm : 12kg : 3.2 mm tempered glass : Anooized Aluminium Alloy : 1P67, 2 diodes | 156.75mm x 156.75mm 36 Cols in series 1490x670x35mm 1 12kg 3.2 mm tempered glass Anodized Aluminium Alloy 1P67, 2 diodes | 136mm x 156 75mm 36 Celts in series 1 305x 665 x 35 mm 10.5kg 3.2 mm tempered grass Anodized Aluminium Alloy 1p67, 2 diodes | 120mm x 156.75mm . 36 Cells in series 1165x 665 x 35 mm 9.5kg 3.2 mm tempered glass Anodized Aluminium Alloy 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 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 | 1 12kg | 10.5kg | 9.5kg | 9.5kg |
| Front Cover | | 3.2 mm tempered glass | 3.2 mm tempered glass | 3.2 mm tempered grass | 3.2 mm tempered glass | 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 | lp67, 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 10.09A 5.29A Optimum Operating Current (Imp) 11.37A 8.46A 5.69A 23.01V Open Circuit Voltage (Voc) : 23.69V 23.39V 22.97V 22.68V Short Circuit Current (Isc) 11.97A 11.06A 8.84A 5.99A 5.53A 15.02 15.83 15.91 14.46 Module Efficiency (%) 16.52 0 to +6W **Power Tolerance** Maximum System Voltage DC 1000V -40C - +85C **Operating Temperature** Maximum Series Fuse Rating 20A 20A 10A 10A 10A 3 2 2 Number of Bypass Diode 3 2



SB-10, Narayan Vihar, Gopalpura Bypass, Ajmer Road, Jaipur, Rajasthan - 302020



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