

# Sunpro **Max** Series

**N-type** High Efficiency Bifacial Module

Module efficiency

**23.51%**

Power Output

**620-635W**

· Mesh transparent



Lower levelized cost of energy (LCOE)



Superior high-temperature stability

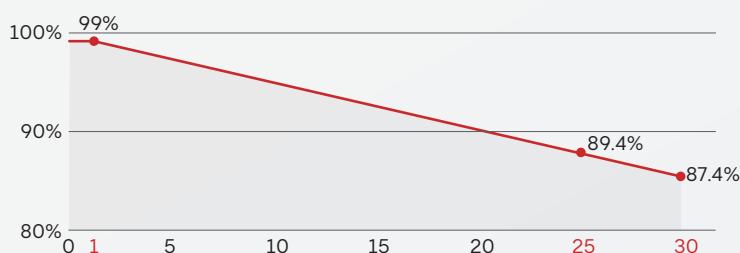


Enhanced low-irradiance performance



Excellent bifacial power gain performance

Linear power output warranty for 30 years



## WARRANTY

Extended warranty available upon request at additional cost

Quality Guarantee **15** years

Power Warranty **30** years

## CERTIFICATE



## ELECTRICAL CHARACTERISTICS

## SPDG (620/635W)-N132R12

| Model of modules              | SPDG620-N132R12 |        | SPDG625-N132R12 |       | SPDG630-N132R12 |        | SPDG635-N132R12 |        |
|-------------------------------|-----------------|--------|-----------------|-------|-----------------|--------|-----------------|--------|
|                               | STC             | NMOT   | STC             | NMOT  | STC             | NMOT   | STC             | NMOT   |
| Power ( Pmax/W )              | 620.00          | 469.30 | 625.00          | 473.5 | 630.00          | 477.60 | 635.00          | 481.70 |
| Maximum power voltage ( Vmp ) | 41.20           | 38.70  | 41.45           | 39.00 | 41.70           | 39.20  | 41.95           | 39.40  |
| Maximum power current ( Imp ) | 15.05           | 12.12  | 15.08           | 12.15 | 15.11           | 12.18  | 15.14           | 12.22  |
| Open circuit voltage ( Voc )  | 49.25           | 46.70  | 49.49           | 47.00 | 49.73           | 47.20  | 49.97           | 47.50  |
| Short circuit current ( Isc ) | 15.92           | 12.82  | 15.96           | 12.85 | 15.99           | 12.88  | 16.03           | 12.91  |
| Module efficiency             | 22.95%          |        | 23.14%          |       | 23.32%          |        | 23.51%          |        |

**STC** ( Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m<sup>2</sup>, Cells Temperature25°C )

**NMOT** ( Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s )

## ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN

|                               |        |        |        |        |
|-------------------------------|--------|--------|--------|--------|
| Front power Pmax/W            | 713.00 | 718.75 | 724.50 | 730.25 |
| Maximum power voltage ( Vmp ) | 41.20  | 41.45  | 41.7   | 41.95  |
| Maximum power current ( Imp ) | 17.31  | 17.34  | 17.37  | 17.41  |
| Open circuit voltage ( Voc )  | 49.25  | 49.49  | 49.73  | 49.97  |
| Short circuit current ( Isc ) | 18.31  | 18.35  | 18.39  | 18.43  |

## STRUCTURAL CHARACTERISTICS

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Module size (L*W*H)   | 2382x1134x30mm(93.78x44.65x1.18in)                           |
| Weight                | 32.4kg(71.43lb)                                              |
| Cell                  | 132 cells, N-type Mono-Crystalline, 182.2x105mm(7.17x4.13in) |
| Front glass           | 2.0mm, Anti-Reflection Coating                               |
| Back glass            | 2.0mm, Heat Strengthened Glass                               |
| Frame                 | Anodized aluminum alloy                                      |
| Junction box          | IP68, 3 bypass diodes                                        |
| Output wire           | 4mm <sup>2</sup>                                             |
| Wire length           | Customized                                                   |
| Connector             | Stäubli MC4                                                  |
| Packing Specification | 37 pcs/Pallet; 740 pcs/40' HQ                                |

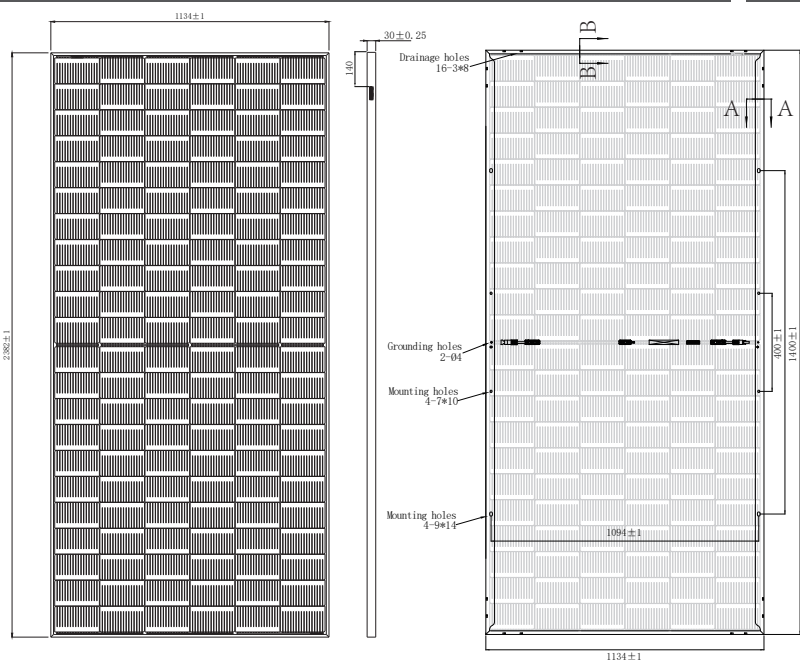
## OPERATING PARAMETERS

|                             |                 |
|-----------------------------|-----------------|
| Power tolerance             | 0~+5W           |
| Maximum system voltage      | 1500V           |
| Maximum rated fuse current  | 30A             |
| Operating temperature range | -40~+85°C       |
| Mechanical load capacity    | +5400Pa/-2400Pa |

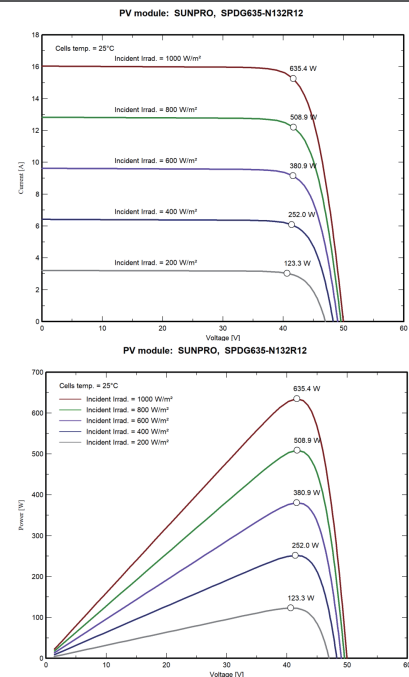
## TEMPERATURE CHARACTERISTICS

|                                     |             |
|-------------------------------------|-------------|
| Temp. Coefficient of Isc(TK Isc)    | 0.045% / °C |
| Temp. Coefficient of Voc (TK Voc)   | -0.25% / °C |
| Temp. Coefficient of Pmax (TK Pmax) | -0.30% / °C |
| Operating temperature range         | 45±2°C      |

## MODULE DIMENSIONS(MM)



## I-V CHARACTERISTICS AT DIFFERENT IRRADIATION



**SUNPRO POWER LLC**

ADD: 3050 BUSINESS PARK DRIVE STE E, NORCROSS, GA, 30071, USA

E-MAIL: [info@sunpropower.com](mailto:info@sunpropower.com) WEBSITE: [www.sunpropower.us](http://www.sunpropower.us)

\*All data are subject to slight deviations and are for reference only. Sunpro reserves the right of final interpretation.