SUNPRO POWER

Q2 2026 BloombergNEF TIER 1 PV Modules

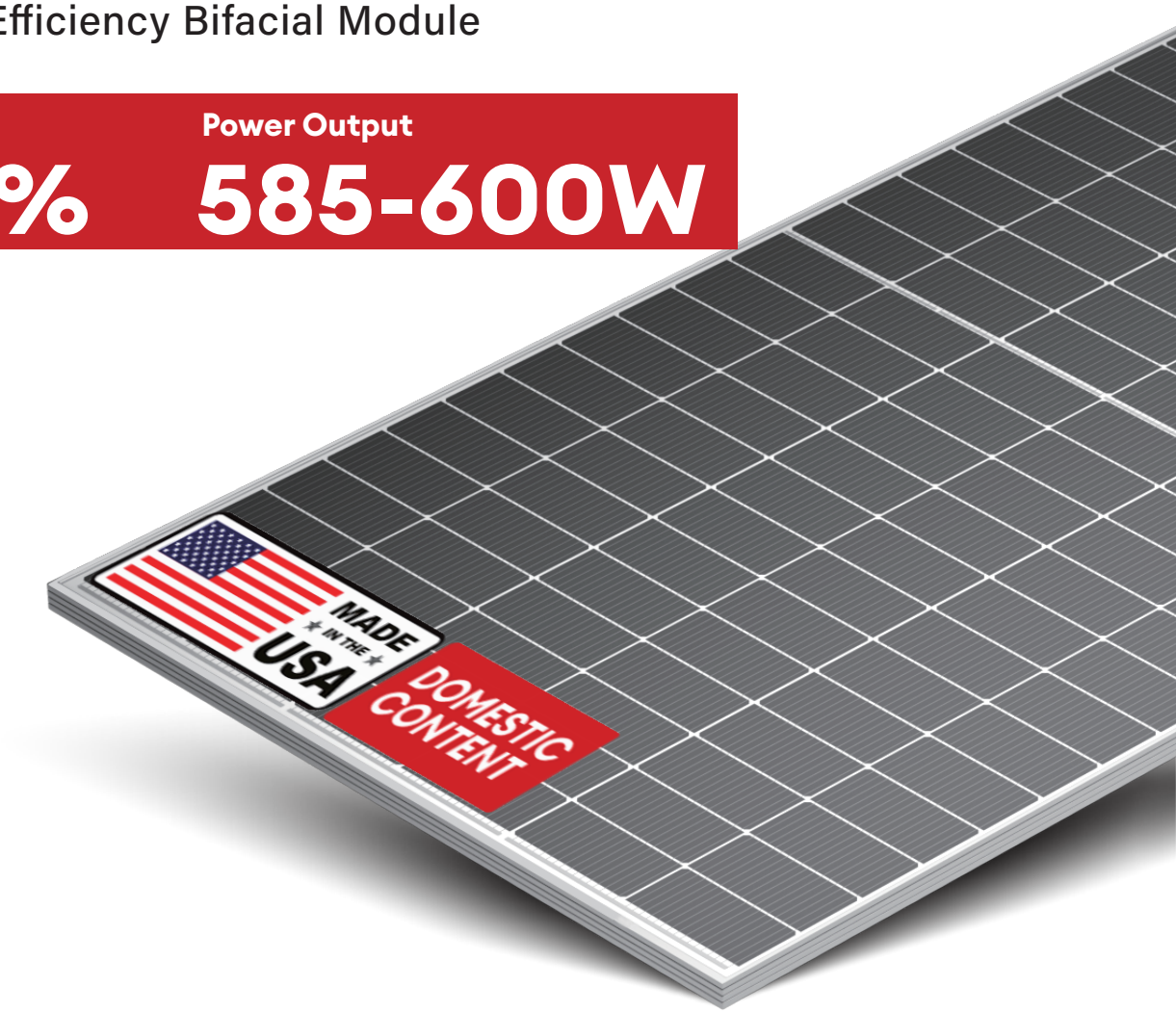
FEOC FREE

# Sunpro Max Series

**N-type** High Efficiency Bifacial Module

**Module efficiency**
**23.22%**

**Power Output**
**585-600W**



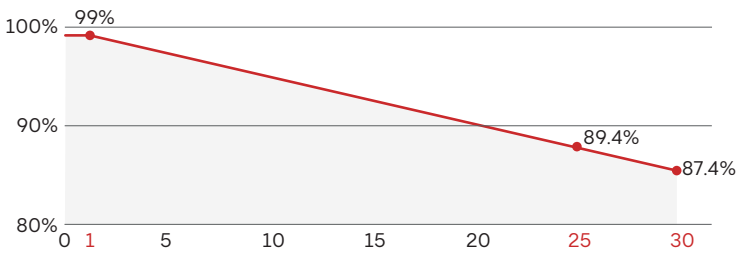

**Lower levelized cost of energy**

**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 (585/600W)-N144M10**

| Model of modules | SPDG585-N144M10 | | SPDG590-N144M10 | | SPDG595-N144M10 | | SPDG600-N144M10 | |
|---|---|---|---|---|---|---|---|---|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Power ( Pmax/W ) | 585 | 437.30 | 590 | 441.00 | 595 | 444.60 | 600 | 448.4 |
| Maximum power voltage ( Vmp ) | 42.72 | 39.90 | 42.87 | 40.00 | 43.03 | 40.20 | 43.18 | 40.3 |
| Maximum power current ( Imp ) | 13.7 | 10.96 | 13.77 | 11.02 | 13.83 | 11.07 | 13.90 | 11.13 |
| Open circuit voltage ( Voc ) | 51.58 | 48.30 | 51.7 | 48.40 | 51.84 | 48.50 | 51.97 | 48.7 |
| Short circuit current ( Isc ) | 14.41 | 11.61 | 14.48 | 11.67 | 14.55 | 11.72 | 14.62 | 11.78 |
| Module efficiency | 22.64% | | 22.83% | | 23.02% | | 23.22% | |

STC ( Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m², Cells Temperature25℃ )

NMOT ( Irradiance 800W/m², Ambient Temperature 20℃, AM1.5, Wind Speed 1m/s )

## ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN

| | | | | |
|---|---|---|---|---|
| Front power Pmax/W | 672.75 | 678.50 | 684.25 | 690.00 |
| Maximum power voltage ( Vmp ) | 42.72 | 42.87 | 43.03 | 43.18 |
| Maximum power current ( Imp ) | 15.75 | 15.83 | 15.90 | 15.98 |
| Open circuit voltage ( Voc ) | 51.58 | 51.70 | 51.84 | 51.97 |
| Short circuit current ( Isc ) | 16.57 | 16.65 | 16.73 | 16.81 |

## STRUCTURAL CHARACTERISTICS

| | |
|---|---|
| Module size (L*W*H) | 2278x1134x30mm (89.69x44.65x1.18in) |
| Weight | 31kg(68.34lb) |
| Cell | 144 cells, N-type Mono-Crystalline, 182x91mm(7.17x3.58in) |
| 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 | 4mm2 |
| Wire length | Line length 1300mm(51.18in)/customized |
| Connector | Stäubli MC4 |
| Packing Specification | 37 pcs/Pallet; 740 pcs/40' HQ |

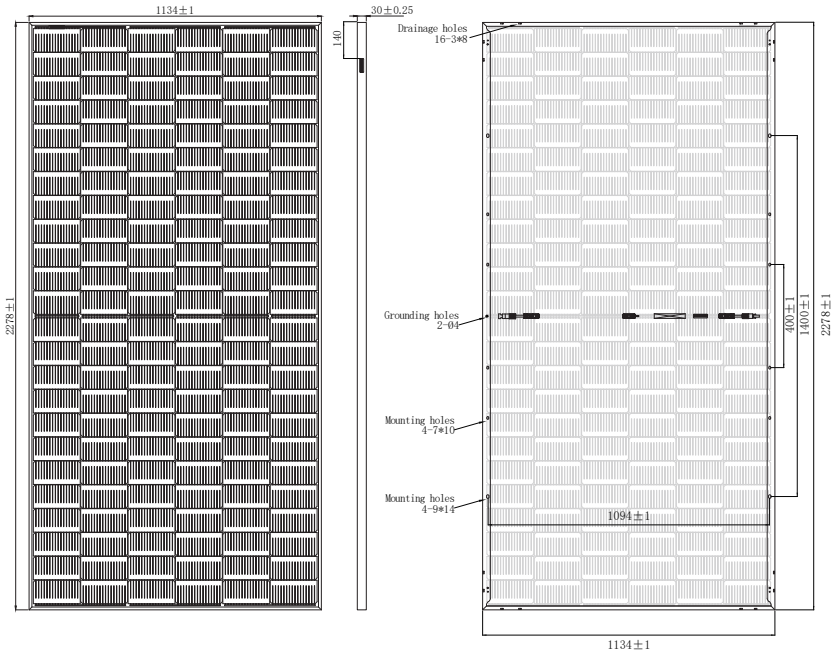
## OPERATING PARAMETERS

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

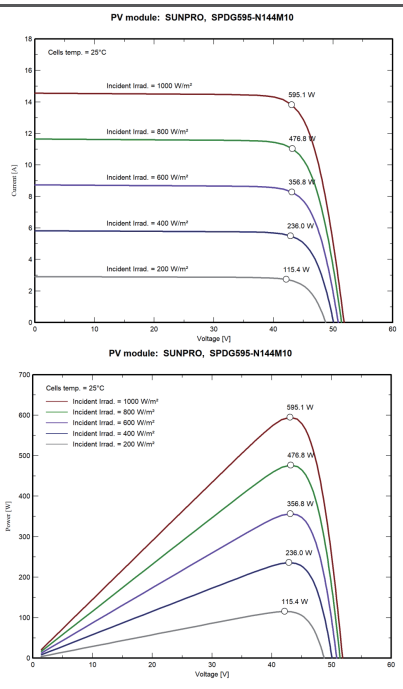
## TEMPERATURE CHARACTERISTICS

| | |
|---|---|
| Temp. Coefficient of Isc(TK Isc) | 0.046% / ℃ |
| Temp. Coefficient of Voc (TK Voc) | -0.25% / ℃ |
| Temp. Coefficient of Pmax (TK Pmax) | -0.30% / ℃ |
| Operating temperature range | 45±2℃ |

## MODULE DIMENSIONS(MM)




## I-V CHARACTERISTICS AT DIFFERENT IRRADIATION





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