

SOLAR'S MOST TRUSTED



# REC N-PEAK BLACK SERIES

PREMIUM FULL BLACK MONO  
N-TYPE SOLAR PANELS WITH  
SUPERIOR PERFORMANCE



MONO N-TYPE: THE  
MOST EFFICIENT C-SI  
TECHNOLOGY



NO LIGHT INDUCED  
DEGRADATION



SUPER-STRONG  
FRAME UP TO 7000 PA  
SNOW LOAD



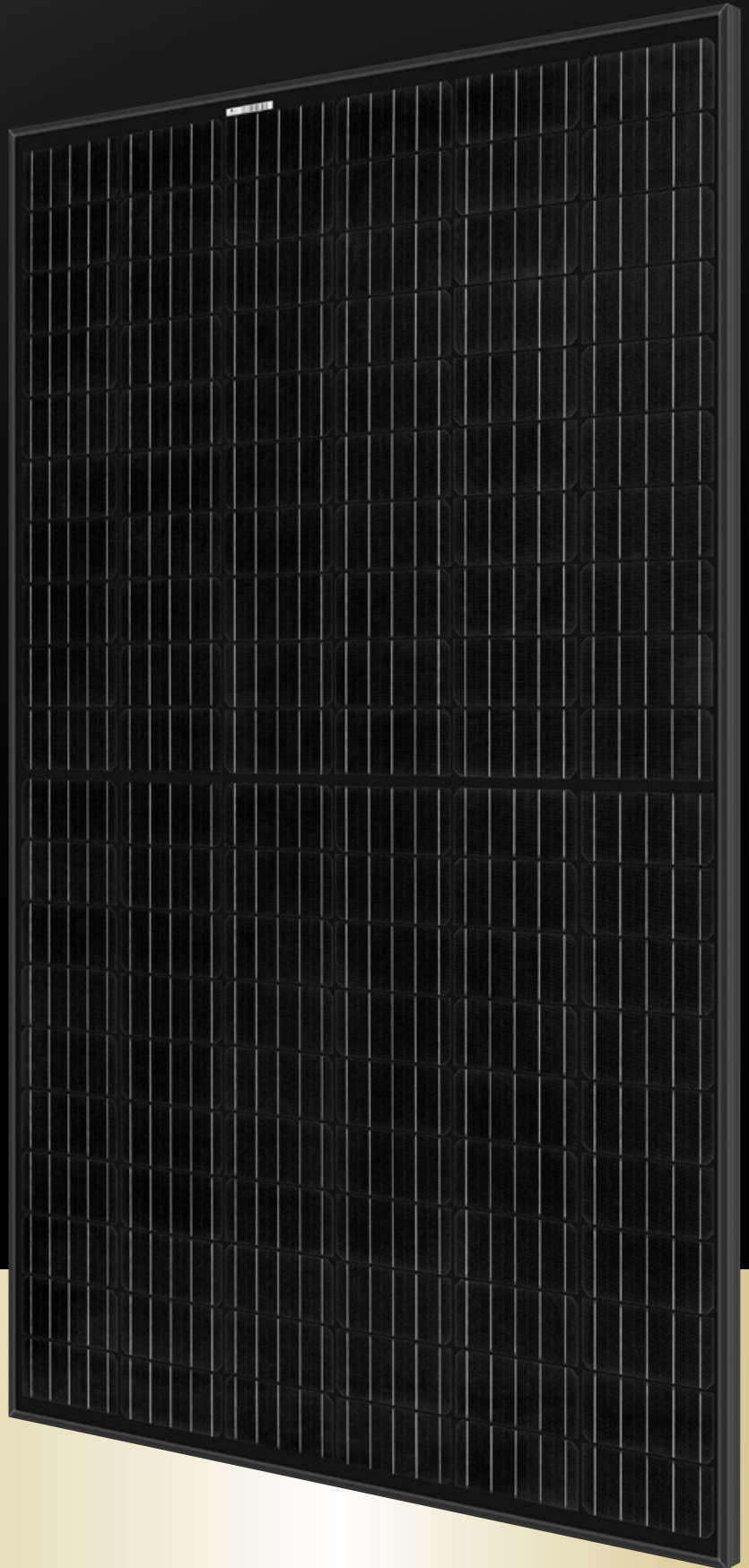
FLEXIBLE  
INSTALLATION  
OPTIONS



IMPROVED  
PERFORMANCE IN  
SHADED CONDITIONS



BIFACIAL CELLS CAN  
PRODUCE ENERGY FROM  
BOTH SIDES

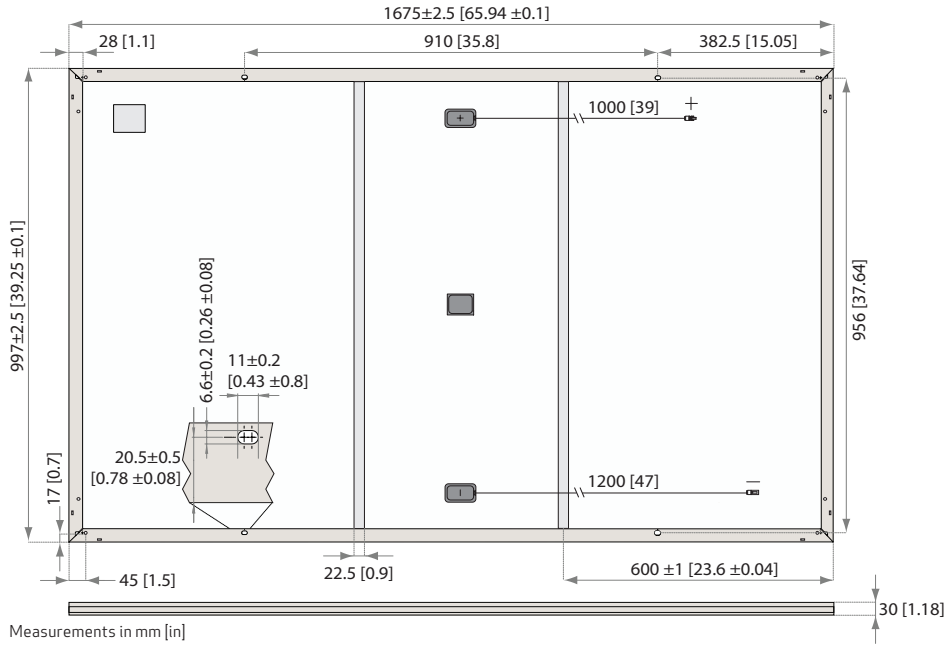


325  
WP  
POWER



ELIGIBLE

# REC N-PEAK BLACK SERIES



## ELECTRICAL DATA @ STC

### Product code\*: RECxxxNP Black

|                                       | 305   | 310   | 315   | 320   | 325   |
|---------------------------------------|-------|-------|-------|-------|-------|
| Nominal Power - $P_{MAX}$ (Wp)        | 305   | 310   | 315   | 320   | 325   |
| Watt Class Sorting - (W)              | 0/+5  | 0/+5  | 0/+5  | 0/+5  | 0/+5  |
| Nominal Power Voltage - $V_{MPP}$ (V) | 33.3  | 33.6  | 33.9  | 34.2  | 34.4  |
| Nominal Power Current - $I_{MPP}$ (A) | 9.17  | 9.24  | 9.31  | 9.37  | 9.46  |
| Open Circuit Voltage - $V_{OC}$ (V)   | 39.3  | 39.7  | 40.0  | 40.3  | 40.7  |
| Short Circuit Current - $I_{SC}$ (A)  | 10.06 | 10.12 | 10.17 | 10.22 | 10.28 |
| Panel Efficiency (%)                  | 18.3  | 18.6  | 18.9  | 19.2  | 19.5  |

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m<sup>2</sup>, temperature 25°C), based on a production spread with a tolerance of  $P_{MAX}$ ,  $V_{OC}$  &  $I_{SC}$  ±3% within one watt class.\* Where xxx indicates the nominal power class ( $P_{MAX}$ ) at STC above. Bifaciality coefficient of up to  $P_{MAX}$  ~3%.

## ELECTRICAL DATA @ NOCT

### Product code\*: RECxxxNP Black

|                                       | 231  | 234  | 238  | 242  | 246  |
|---------------------------------------|------|------|------|------|------|
| Nominal Power - $P_{MAX}$ (Wp)        | 231  | 234  | 238  | 242  | 246  |
| Nominal Power Voltage - $V_{MPP}$ (V) | 31.1 | 31.4 | 31.7 | 32.0 | 32.2 |
| Nominal Power Current - $I_{MPP}$ (A) | 7.41 | 7.46 | 7.52 | 7.57 | 7.64 |
| Open Circuit Voltage - $V_{OC}$ (V)   | 36.7 | 37.1 | 37.4 | 37.7 | 38.0 |
| Short Circuit Current - $I_{SC}$ (A)  | 8.13 | 8.17 | 8.21 | 8.25 | 8.30 |

Nominal operating cell temperature (NOCT: air mass AM1.5, irradiance 800 W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s).

\* Where xxx indicates the nominal power class ( $P_{MAX}$ ) at STC above.

## CERTIFICATIONS



UL 61730 (Fire Type 2), IEC 61215, IEC 61730, MCS 005, IEC 62804, IEC 61701, IEC 62716, IEC 62782, ISO 9001: 2015, ISO 14001: 2004, OHSAS 18001: 2007

## WARRANTY

|  | Standard | RECProTrust |           |
|--|----------|-------------|-----------|
| Installed by an REC Certified Solar Professional | No       | Yes         | Yes       |
| System Size                                      | Any      | ≤25 kW      | 25-500 kW |
| Product Warranty (yrs)                           | 20       | 25          | 25        |
| Power Warranty (yrs)                             | 25       | 25          | 25        |
| Labor Warranty (yrs)                             | 0        | 25          | 10        |
| Power in Year 1                                  | 98%      | 98%         | 98%       |
| Annual Degradation                               | 0.5%     | 0.5%        | 0.5%      |
| Power in Year 25                                 | 86%      | 86%         | 86%       |

See warranty documents for details. Some conditions apply.

## GENERAL DATA

|               |   |
|---------------|---|
| Cell type:    | 120 half-cut bifacial n-type mono c-Si cells<br>6 strings of 20 cells in series                             |
| Glass:        | 0.13" (3.2 mm) solar glass with anti-reflection surface treatment   |
| Backsheet:    | Highly resistant polymeric construction   |
| Frame:        | Anodized aluminum   |
| Junction box: | 3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790  |
| Cable:        | 12 AWG (4 mm <sup>2</sup> ) PV wire, 39+47" (1m+1.2m) in accordance with EN 50618                           |
| Connectors:   | Stäubli MC4 PV-KBT4/KST4, 12 AWG (4 mm <sup>2</sup> ) in accordance with IEC 62852 IP68 only when connected |
| Origin:       | Made in Singapore   |

## MECHANICAL DATA

|             |  |
|-------------|--|
| Dimensions: | 65.9 x 39.25 x 1.1" (1675 x 997 x 30 mm)     |
| Area:       | 17.98 ft <sup>2</sup> (1.67 m <sup>2</sup> ) |
| Weight:     | 39.7 lbs (18 kg)                             |

## MAXIMUM RATINGS

|                          |                                      |
|--------------------------|--------------------------------------|
| Operational temperature: | -40 ... +85°C                        |
| Maximum system voltage:  | 1000 V                               |
| Design load (+): snow    | 4666 Pa (97.5 lbs/ft <sup>2</sup> )* |
| Maximum test load (+):   | 7000 Pa (146 lbs/ft <sup>2</sup> )*  |
| Design load (-): wind    | 2666 Pa (55.7 lbs/ft <sup>2</sup> )* |
| Maximum test load (-):   | 4000 Pa (83.5 lbs/ft <sup>2</sup> )* |
| Max series fuse rating:  | 20 A                                 |
| Max reverse current:     | 20 A                                 |

\* Calculated using a safety factor of 1.5

\* See installation manual for mounting instructions

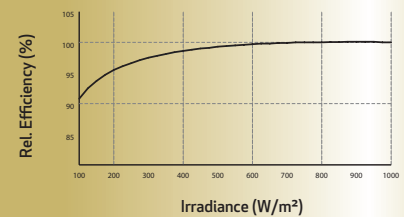
## TEMPERATURE RATINGS \*

|  |             |
|--|-------------|
| Nominal Operating Cell Temperature:    | 44°C (±2°C) |
| Temperature coefficient of $P_{MAX}$ : | -0.35 %/°C  |
| Temperature coefficient of $V_{OC}$ :  | -0.27 %/°C  |
| Temperature coefficient of $I_{SC}$ :  | 0.04 %/°C   |

\* The temperature coefficients stated are linear values

## LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC.



REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power in order to facilitate global energy transitions. Committed to quality and innovation, REC offers photovoltaic modules with leading high quality, backed by an exceptional low warranty claims rate of less than 100ppm. Founded in Norway in 1996, REC employs 2,000 people and has an annual solar panel capacity of 1.8 GW. With over 10 GW installed worldwide, REC is empowering more than 16 million people with clean solar energy. REC Group is a Bluestar Elkem company with headquarters in Norway, operational headquarters in Singapore, and regional bases in North America, Europe, and Asia-Pacific.