

SOLAR'S MOST TRUSTED



# REC N-PEAK SERIES

PREMIUM 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



GUARANTEED HIGH  
POWER OVER LIFETIME



NOW  
WITH NEW  
WARRANTY!

330 W<sub>P</sub>

POWER

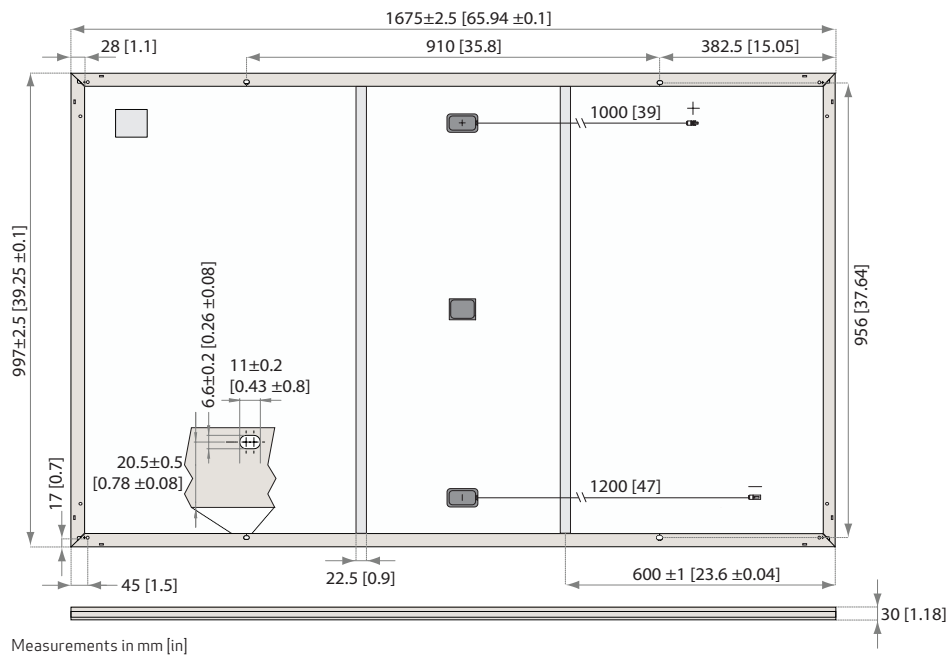
20

YEAR PRODUCT  
WARRANTY

25

YEAR POWER  
OUTPUT WARRANTY

# REC N-PEAK SERIES



## ELECTRICAL DATA @ STC

### Product code\*: RECxxxNP

Nominal Power - $P_{MPP}$ (Wp)	310	315	320	325	330
Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage - $V_{MPP}$ (V)	33.6	33.9	34.2	34.4	34.6
Nominal Power Current - $I_{MPP}$ (A)	9.24	9.31	9.37	9.46	9.55
Open Circuit Voltage - $V_{OC}$ (V)	40.2	40.5	40.8	41.0	41.3
Short Circuit Current - $I_{SC}$ (A)	10.01	10.09	10.18	10.27	10.36
Panel Efficiency (%)	18.6	18.9	19.2	19.5	19.8

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  $V_{OC}$  &  $I_{SC}$  ±3% within one watt class. \* Where xxx indicates the nominal power class ( $P_{MPP}$ ) at STC above.

## ELECTRICAL DATA @ NOCT

### Product code\*: RECxxxNP

Nominal Power - $P_{MPP}$ (Wp)	234	238	241	245	249
Nominal Power Voltage - $V_{MPP}$ (V)	31.1	31.4	31.7	31.9	32.1
Nominal Power Current - $I_{MPP}$ (A)	7.51	7.56	7.62	7.69	7.76
Open Circuit Voltage - $V_{OC}$ (V)	37.3	37.5	37.8	38.0	38.3
Short Circuit Current - $I_{SC}$ (A)	8.01	8.07	8.14	8.22	8.29

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 ( $P_{MPP}$ ) at STC above.

## CERTIFICATIONS



UL 1703 (Fire type 2), IEC 61215, IEC 61730  
IEC 62804 (PID), IEC 61701 (Salt Mist), IEC 62716 (Ammonia),  
ISO 9001: 2015, ISO 14001: 2004, OHSAS 18001: 2007

## WARRANTY

20 year product warranty  
25 year linear power output warranty, maximum  
degression in performance of 0.5% p.a., giving  
86% at end of year 25.  
See warranty conditions for further details.

## GENERAL DATA

Cell type:	120 half-cut n-type mono c-Si cells 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 (black)
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" (1 m + 1.2 m) 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	1600 Pa (33.4 lbs/ft <sup>2</sup> )*
Maximum test load (-):	2400 Pa (50 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

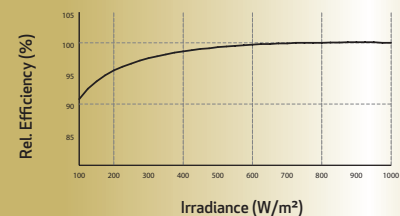
## TEMPERATURE RATINGS \*

Nominal Operating Cell Temperature:	44°C (±2°C)
Temperature coefficient of $P_{MPP}$ :	-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.



Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the world with a reliable source of clean energy. REC's renowned product quality is supported by the lowest warranty claims rate in the industry. REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC employs more than 2,000 people worldwide, producing 1.5 GW of solar panels annually.



www.recgroup.com

Specifications subject to change without notice.

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