

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



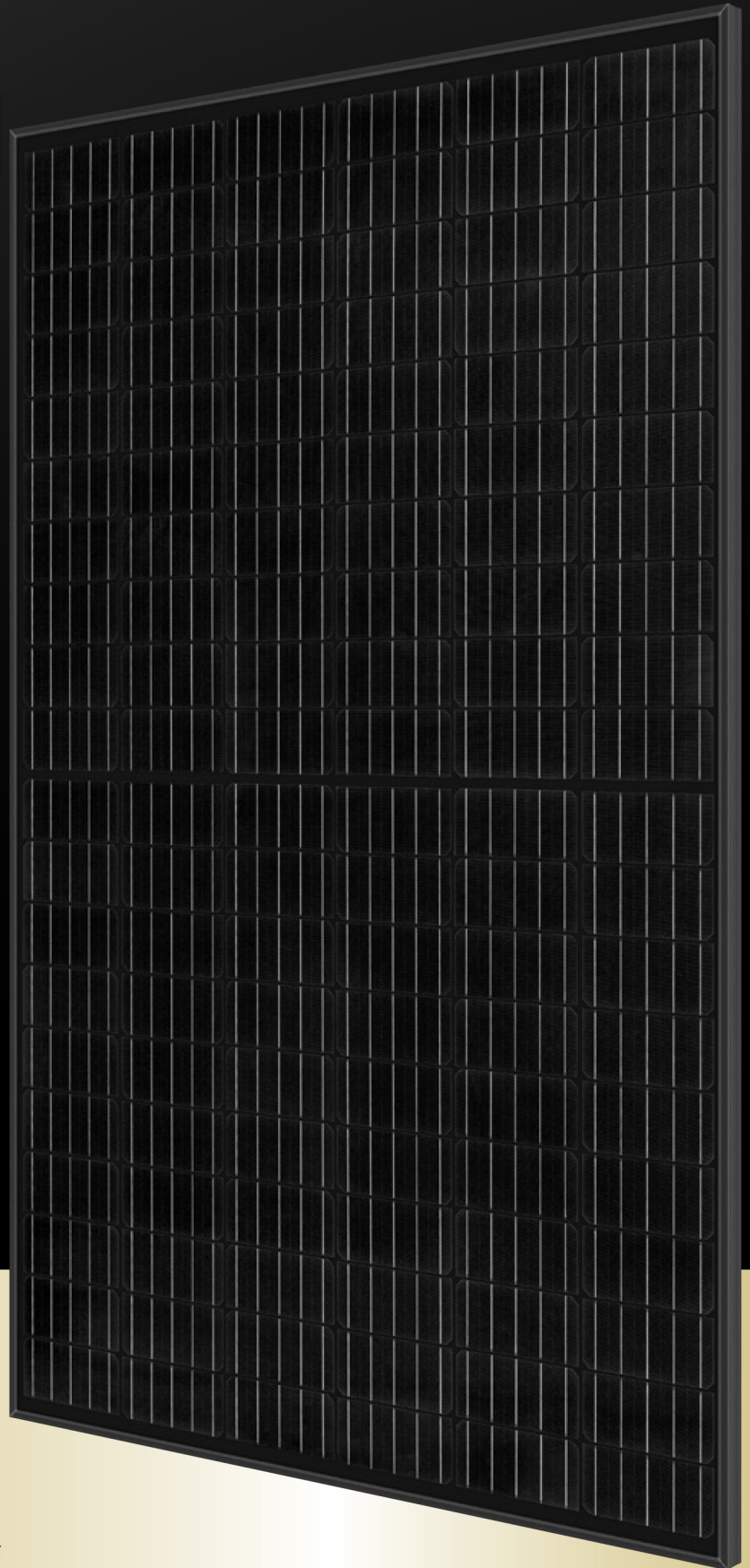
FLEXIBLE  
INSTALLATION  
OPTIONS



IMPROVED  
PERFORMANCE IN  
SHADED CONDITIONS



GUARANTEED HIGH  
POWER OVER LIFETIME

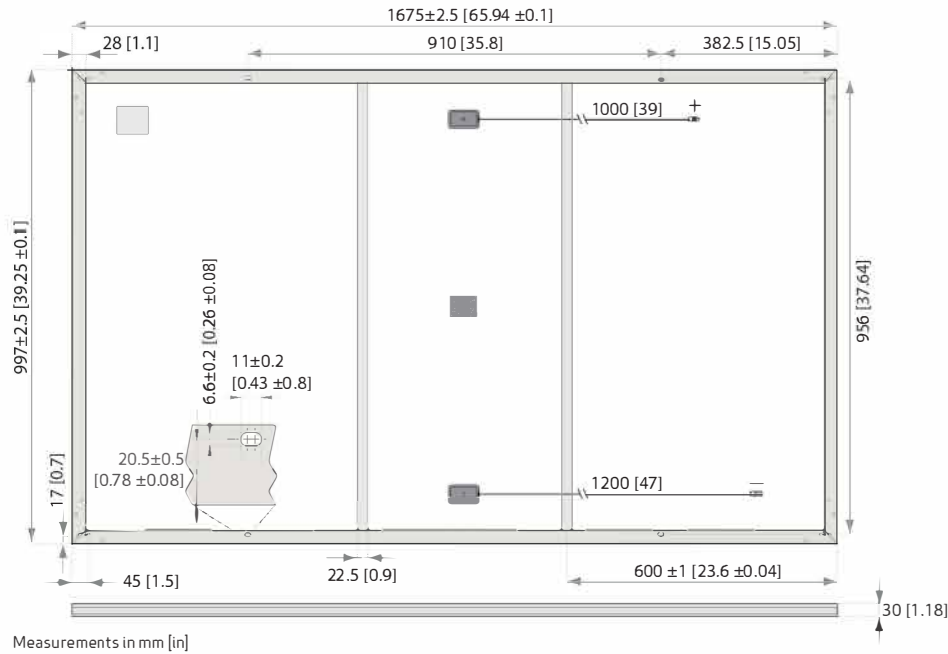


325 W<sub>P</sub> POWER

20 YEAR PRODUCT  
WARRANTY

0.5% ANNUAL DEGRADATION OVER  
25-YEAR POWER WARRANTY

# REC N-PEAK BLACK SERIES



## 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 reflective and resistant polymeric construction (black)
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> ) 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:	25 A
Max reverse current:	25 A

\* Calculated using a safety factor of 1.5  
\* See installation manual for mounting instructions

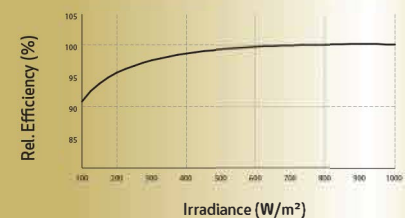
## TEMPERATURE RATINGS \*

Nominal Operating Cell Temperature:	44°C (±2°C)
Temperature coefficient of P <sub>MPP</sub> :	-0.35 %/°C
Temperature coefficient of V <sub>OC</sub> :	-0.27 %/°C
Temperature coefficient of I <sub>SC</sub> :	0.04 %/°C

\* The temperature coefficients stated are linear values

## LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC.



## ELECTRICAL DATA @ STC

### Product code\*: RECxxxNP BLACK

	310	315	320	325
Nominal Power - P <sub>MPP</sub> (Wp)	310	315	320	325
Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage - V <sub>MPP</sub> (V)	33.6	33.9	34.2	34.4
Nominal Power Current - I <sub>MPP</sub> (A)	9.24	9.31	9.37	9.46
Open Circuit Voltage - V <sub>OC</sub> (V)	40.2	40.5	40.8	41.0
Short Circuit Current - I <sub>SC</sub> (A)	10.01	10.09	10.18	10.27
Panel Efficiency (%)	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 V<sub>OC</sub> & I<sub>SC</sub> ±3% within one watt class. \* Where xxx indicates the nominal power class (P<sub>MPP</sub>) at STC above.

## ELECTRICAL DATA @ NOCT

### Product code\*: RECxxxNP BLACK

	234	238	241	245
Nominal Power - P <sub>MPP</sub> (Wp)	234	238	241	245
Nominal Power Voltage - V <sub>MPP</sub> (V)	31.1	31.4	31.7	31.9
Nominal Power Current - I <sub>MPP</sub> (A)	7.51	7.56	7.62	7.69
Open Circuit Voltage - V <sub>OC</sub> (V)	37.3	37.5	37.8	38.0
Short Circuit Current - I <sub>SC</sub> (A)	8.01	8.07	8.14	8.22

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<sub>MPP</sub>) at STC above.

## CERTIFICATIONS



Pending: 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.

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