

SOLAR'S MOST TRUSTED



# REC N-PEAK BLACK SERIES

PREMIUM FULL BLACK MONO  
N-TYPE SOLAR PANELS



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



NO LIGHT INDUCED  
DEGRADATION



SUPER-STRONG  
FRAME UP TO 7000 PA  
SNOW LOAD



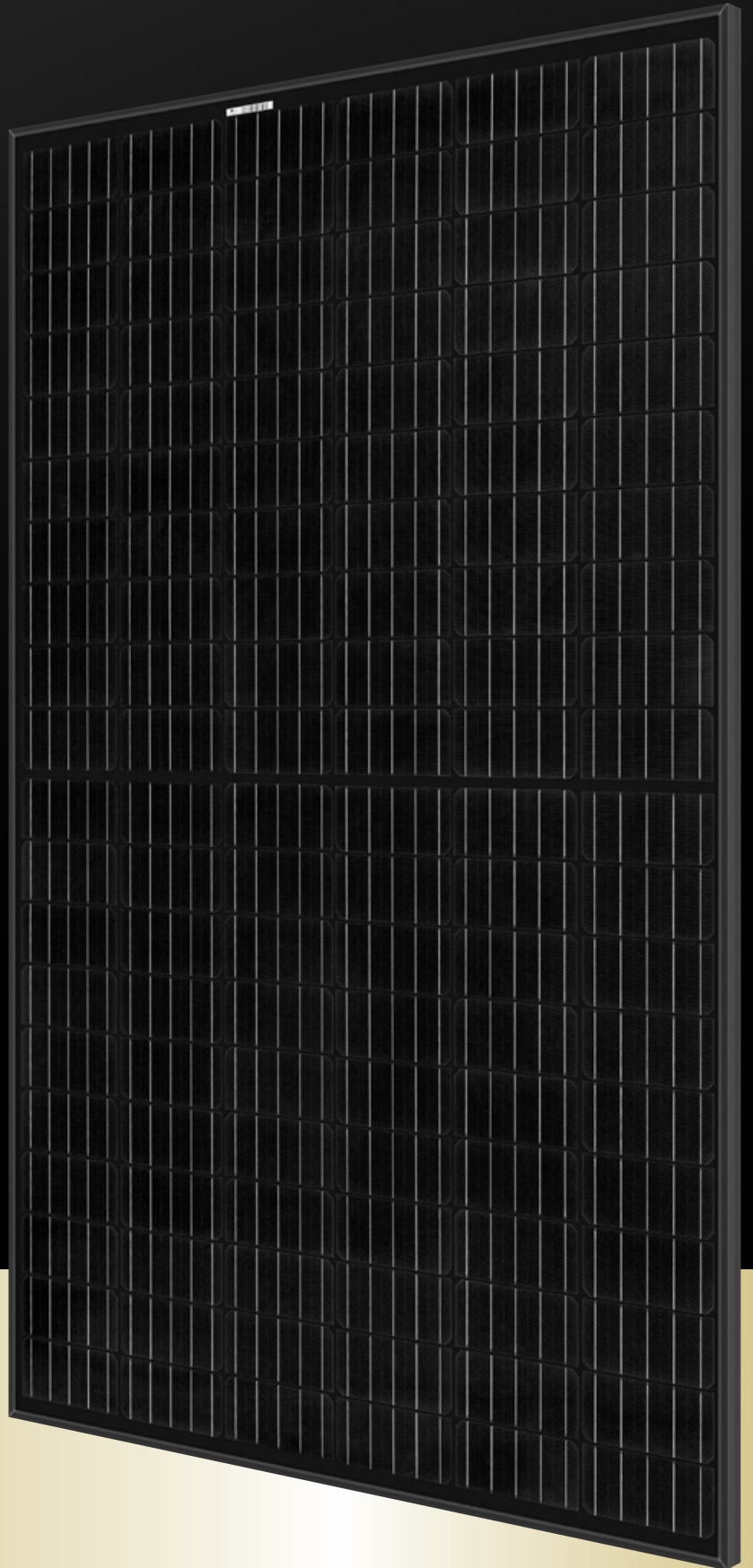
FLEXIBLE  
INSTALLATION  
OPTIONS



FEATURING REC'S  
PIONEERING  
TWIN DESIGN



HIGH POWER  
FOR 25 YEARS

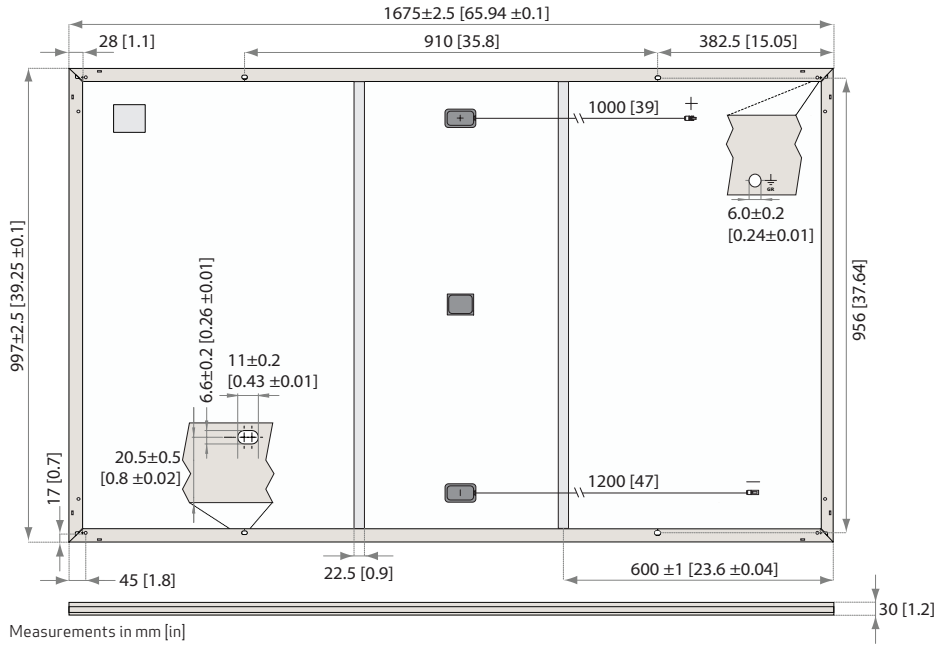


325  
WP  
POWER



ELIGIBLE

# REC N-PEAK BLACK SERIES



## ELECTRICAL DATA @ STC

	Product code*: RECxxxNP Black				
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				
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  
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, 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 ... +185°F (-40 ... +85°C)  
Maximum system voltage: 1000 V  
Maximum test load (front): +7000 Pa (146 lbs/sq ft)\*  
Maximum test load (rear): -4000 Pa (83.5 lbs/sq ft)\*  
Max series fuse rating: 25 A  
Max reverse current: 25 A

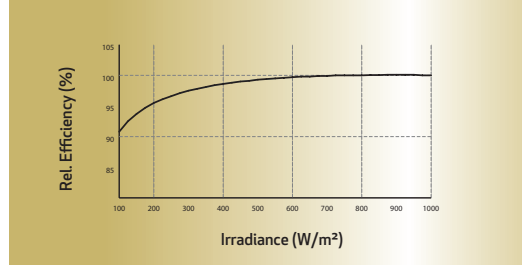
\*See installation manual for mounting instructions.  
Design load = Test load / 1.5 (safety factor)

## 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.



Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.



Ref: PM-DS-11-03-Rev-G 02.21  
Specifications subject to change without notice.