

SOLAR'S MOST TRUSTED



# REC N-PEAK SERIES

PREMIUM MONO N-TYPE  
SOLAR PANELS WITH  
WORLD-CLASS PERFORMANCE



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



NO LIGHT INDUCED  
DEGRADATION



SUPER-STRONG  
FRAME UP TO 7000 PA  
SNOW LOAD



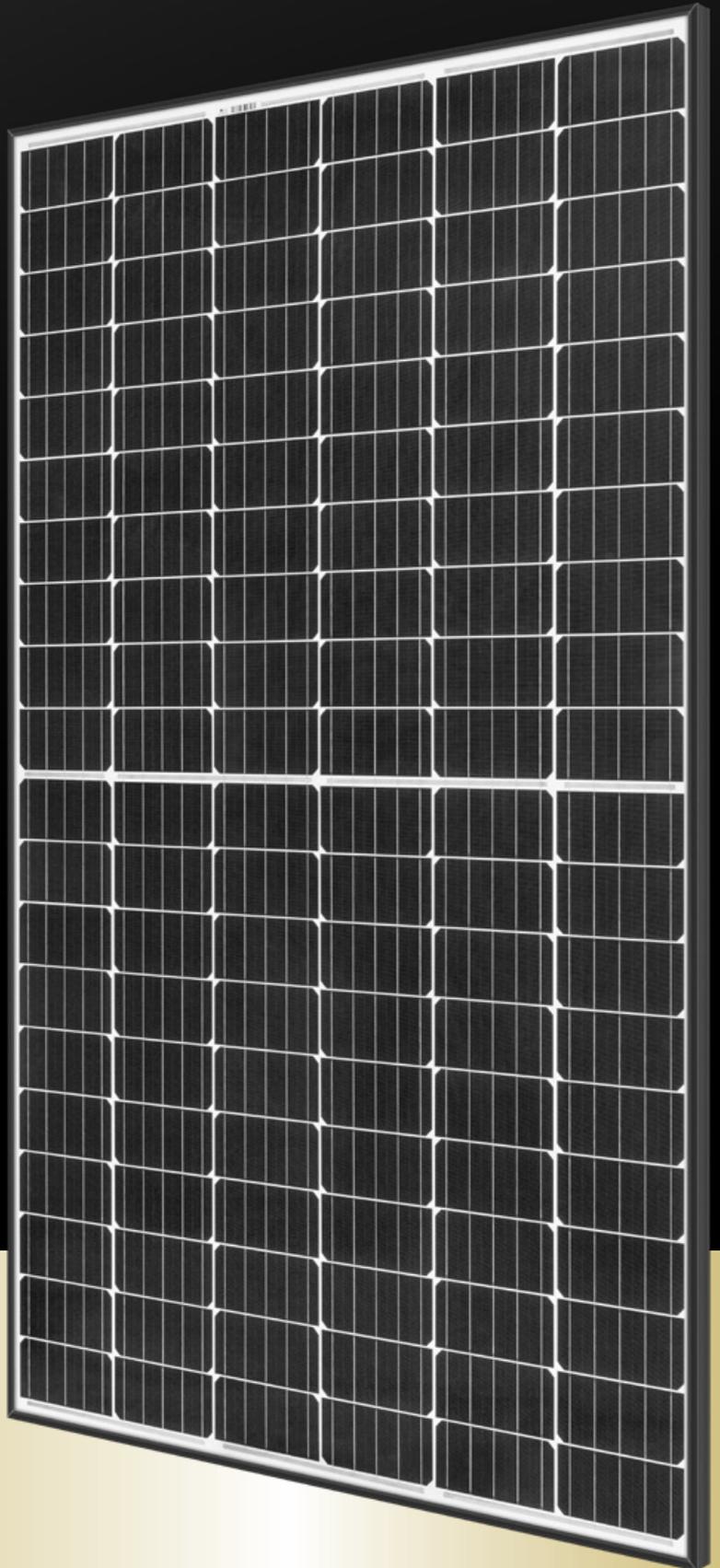
FLEXIBLE  
INSTALLATION  
OPTIONS



IMPROVED  
PERFORMANCE IN  
SHADED CONDITIONS



GUARANTEED HIGH  
POWER OVER LIFETIME

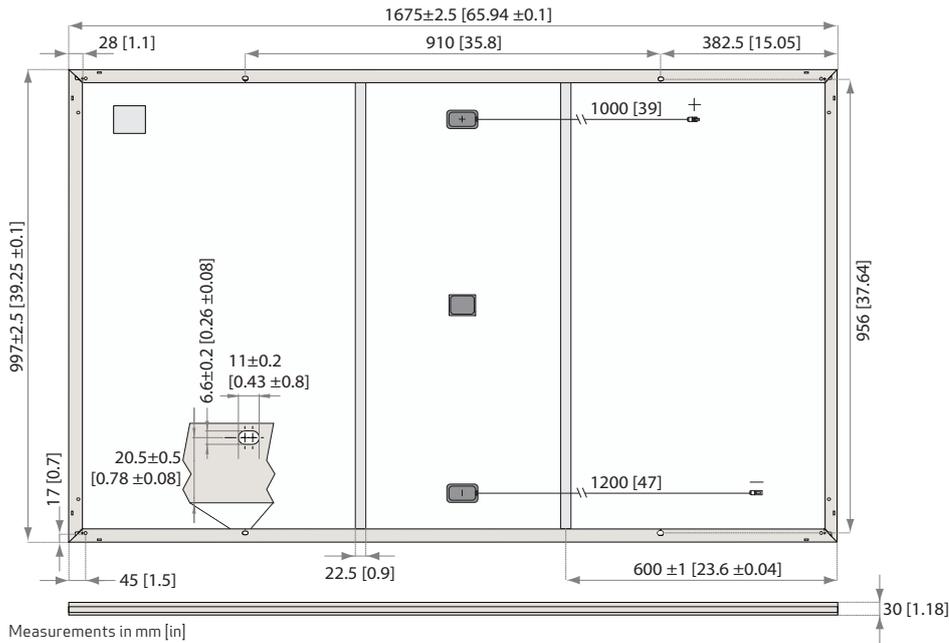


330  
WP  
POWER



ELIGIBLE FOR

# REC N-PEAK SERIES



## GENERAL DATA

Cell type:	120 half-cut mono c-Si n-type cells 6 strings of 20 cells in series
Glass:	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:	4 mm <sup>2</sup> solar cable, 1.0 m + 1.2 m in accordance with EN 50618
Connectors:	Stäubli MC4 PV-KBT4/KST4 (4 mm <sup>2</sup> ) in accordance with IEC 62852 IP68 only when connected
Origin:	Made in Singapore

## MECHANICAL DATA

Dimensions:	1675 x 997 x 30 mm
Area:	1.67 m <sup>2</sup>
Weight:	18 kg

## ELECTRICAL DATA @ STC

### Product code\*: RECxxxNP

Nominal Power - P <sub>MAX</sub> (Wp)	305	310	315	320	325	330
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - V <sub>MPP</sub> (V)	33.3	33.6	33.9	34.2	34.4	34.6
Nominal Power Current - I <sub>MPP</sub> (A)	9.17	9.24	9.31	9.37	9.46	9.55
Open Circuit Voltage - V <sub>OC</sub> (V)	39.3	39.7	40.0	40.3	40.7	41.0
Short Circuit Current - I <sub>SC</sub> (A)	10.06	10.12	10.17	10.22	10.28	10.33
Panel Efficiency (%)	18.3	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 P<sub>MAX</sub>, V<sub>OC</sub> & I<sub>SC</sub> ±3% within one watt class. \*Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC above.

## ELECTRICAL DATA @ NMOT

### Product code\*: RECxxxNP

Nominal Power - P <sub>MAX</sub> (Wp)	214	217	221	224	228	231
Nominal Power Voltage - V <sub>MPP</sub> (V)	31.1	31.4	31.7	32.0	32.2	32.4
Nominal Power Current - I <sub>MPP</sub> (A)	6.86	6.91	6.97	7.01	7.08	7.14
Open Circuit Voltage - V <sub>OC</sub> (V)	36.7	37.1	37.4	37.7	38.0	38.3
Short Circuit Current - I <sub>SC</sub> (A)	7.53	7.57	7.61	7.65	7.69	7.73

Nominal module operating temperature (NMOT: 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>MAX</sub>) at STC above.

## CERTIFICATIONS



takeaway take-e-way WEEE-compliant recycling scheme  
for an easy way

## WARRANTY

	Standard	REC ProTrust	
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.

## MAXIMUM RATINGS

Operational temperature:	-40 ... +85°C
Maximum system voltage:	1000 V
Design load (+): snow	4666 Pa (475 kg/m <sup>2</sup> )*
Maximum test load (+):	7000 Pa (713 kg/m <sup>2</sup> )*
Design load (-): wind	1600 Pa (163 kg/m <sup>2</sup> )*
Maximum test load (-):	2400 Pa (245 kg/m <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

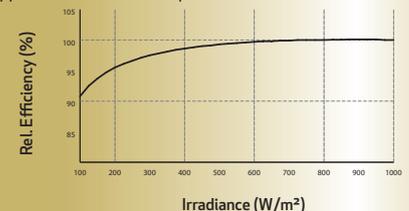
## TEMPERATURE RATINGS \*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P <sub>MAX</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:



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 around 2,000 people worldwide, producing 1.5 GW of solar panels annually.