

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



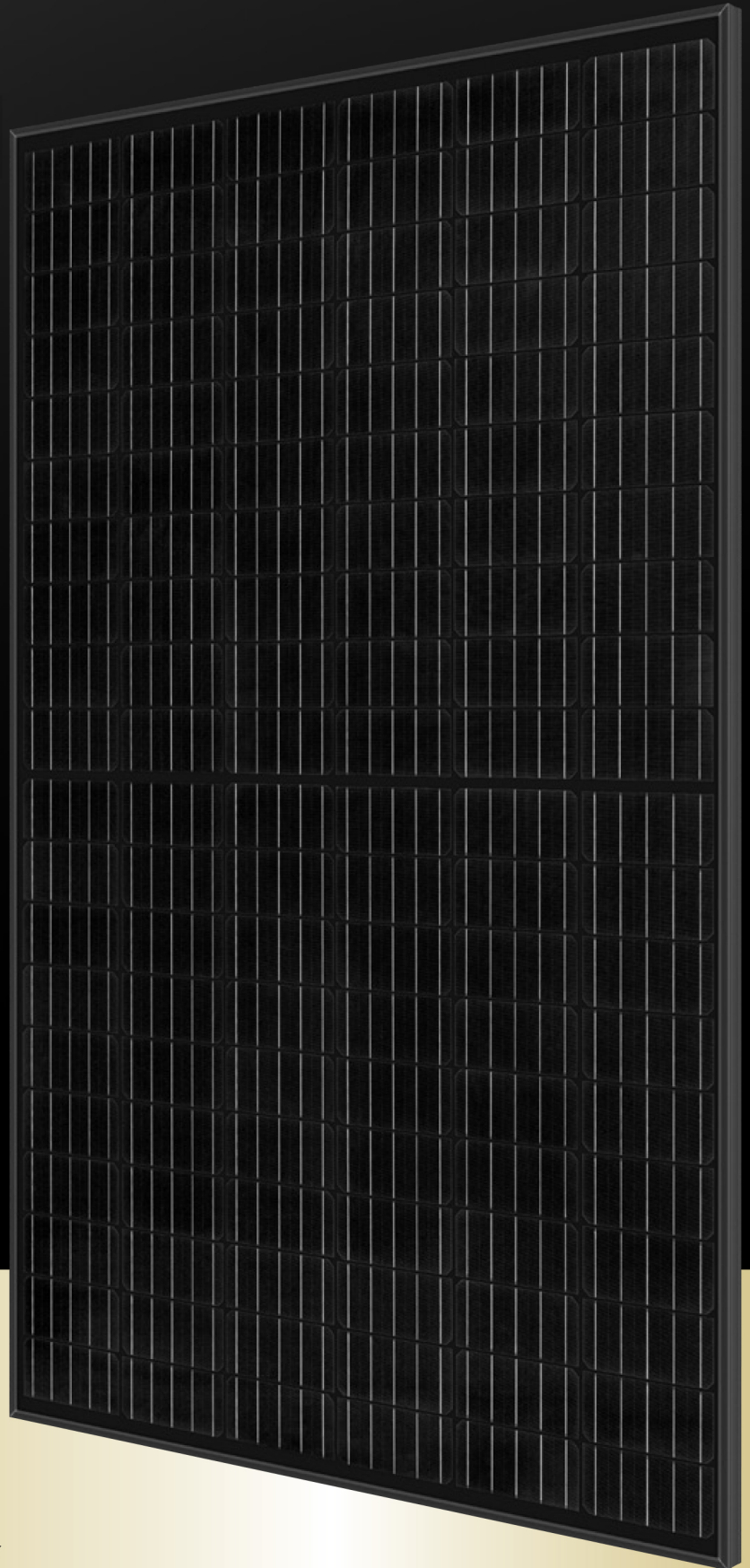
FLEXIBLE
INSTALLATION
OPTIONS



IMPROVED
PERFORMANCE IN
SHADED CONDITIONS



GUARANTEED HIGH
POWER OVER LIFETIME

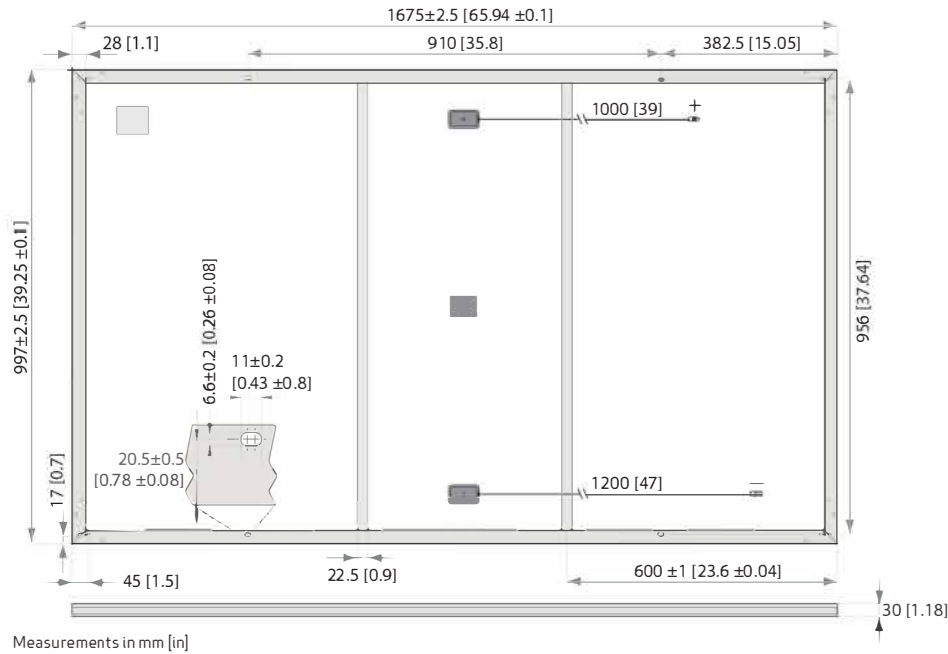


325 W_P POWER

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 ²) PV wire, 39 + 47" (1 m + 1.2 m) in accordance with EN 50618
Connectors:	Stäubli MC4 PV-KBT4/KST4, 12 AWG (4 mm ²) 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 ² (1.67 m ²)
Weight:	39.7 lbs (18 kg)

ELECTRICAL DATA @ STC

Product code*: RECxxxNP BLACK

Nominal Power - P _{MPP} (Wp)	310	315	320	325
Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage - V _{MPP} (V)	33.6	33.9	34.2	34.4
Nominal Power Current - I _{MPP} (A)	9.24	9.31	9.37	9.46
Open Circuit Voltage - V _{OC} (V)	40.2	40.5	40.8	41.0
Short Circuit Current - I _{SC} (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/m², 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 BLACK

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

Nominal operating cell temperature (NOCT: air mass AM1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s).

* Where xxx indicates the nominal power class (P_{MPP}) 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.

MAXIMUM RATINGS

Operational temperature:	-40 ... +85°C
Maximum system voltage:	1000 V
Design load (+): snow	4666 Pa (97.5 lbs/ft ²)*
Maximum test load (+):	7000 Pa (146 lbs/ft ²)*
Design load (-): wind	1600 Pa (33.4 lbs/ft ²)*
Maximum test load (-):	2400 Pa (50 lbs/ft ²)*
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

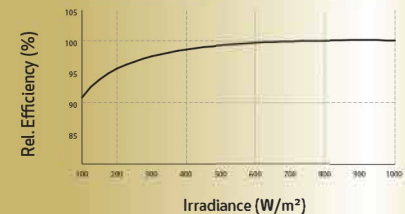
TEMPERATURE RATINGS *

Nominal Operating Cell Temperature:	44°C (±2°C)
Temperature coefficient of P _{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.



Specifications subject to change without notice.

Ref. ME-05-11-03-Rev-A 11/18

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.



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