

SOLAR'S MOST TRUSTED



# REC N-PEAK 3 BLACK SERIES

PREMIUM FULL BLACK MONO N-TYPE SOLAR PANELS



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



NO LIGHT INDUCED DEGRADATION



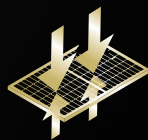
SUPER-STRONG FRAME UP TO 7000 PA SNOW LOAD



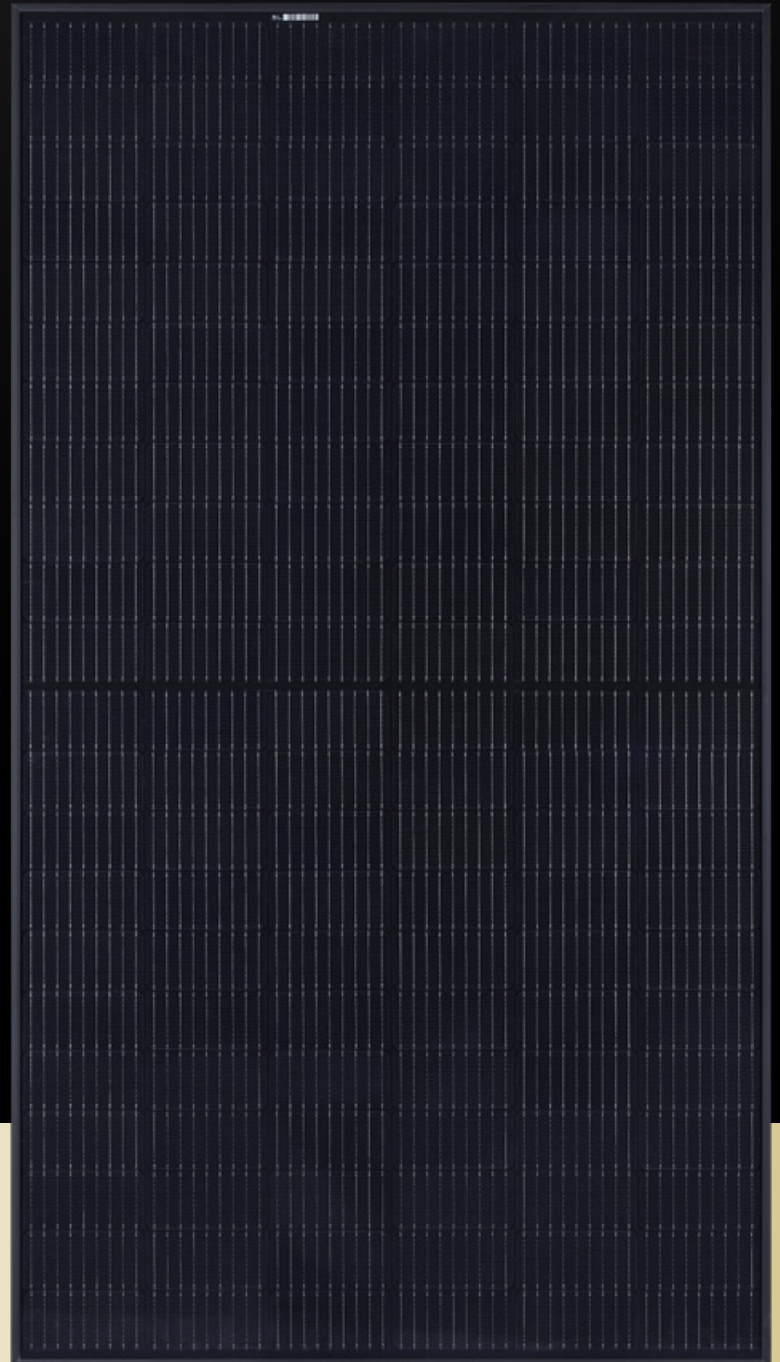
FLEXIBLE INSTALLATION OPTIONS



FEATURING REC'S PIONEERING TWIN DESIGN



BIFACIAL CELLS CAN PRODUCE ENERGY FROM BOTH SIDES



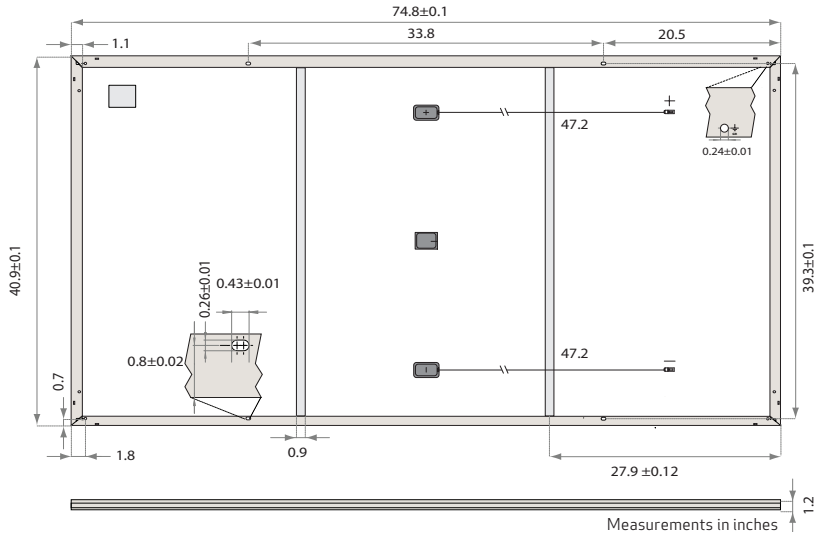
400  
WP  
POWER



ELIGIBLE

### GENERAL DATA

Cell type:	132 half-cut mono c-Si n-type cells 6 strings of 22 cells in series
Glass:	0.13 in solar glass with anti-reflective surface treatment in accordance with EN 12150
Backsheet:	Highly resistant polymer (black)
Frame:	Anodized aluminum (black) with silver support bars
Junction box:	3-part, 3 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790
Connectors:	Stäubli MC4 PV-KBT4/KST4 (12 AWG) in accordance with IEC 62852, IP68 only when connected
Cable:	12 AWG PV wire, 47.2 + 47.2 in in accordance with EN 50618
Dimensions:	74.8 x 40.9 x 1.2 in (19.7 sq-ft)
Weight:	48.0 lbs
Origin:	Made in Singapore



### ELECTRICAL DATA

#### Product Code\*: RECxxxNP3 Black

	390	400
Power Output - $P_{MAX}$ (Wp)	390	400
Watt Class Sorting - (W)	0/+10	0/+10
Nominal Power Voltage - $V_{MPP}$ (V)	36.8	37.6
Nominal Power Current - $I_{MPP}$ (A)	10.60	10.64
Open Circuit Voltage - $V_{OC}$ (V)	44.8	45.0
Short Circuit Current - $I_{SC}$ (A)	11.31	11.39
Panel Efficiency (%)	19.5	20.3
Power Output - $P_{MAX}$ (Wp)	295	302
Nominal Power Voltage - $V_{MPP}$ (V)	34.4	35.2
Nominal Power Current - $I_{MPP}$ (A)	8.56	8.59
Open Circuit Voltage - $V_{OC}$ (V)	41.9	42.1
Short Circuit Current - $I_{SC}$ (A)	9.13	9.20

STC

NMOT

Values at standard test conditions (STC: air mass AM 1.5, 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. Nominal module operating temperature (NMOT: air mass AM 1.5, 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.

### MAXIMUM RATINGS

Operational temperature:	-40... +185°F
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)

### WARRANTY

	Standard	REC ProTrust	
Installed by an REC Certified Solar Professional	No	Yes	Yes
System Size	All	≤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	0.25%	0.25%	0.25%
Power in Year 25	92%	92%	92%

The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See [www.recgroup.com](http://www.recgroup.com) for more details.

### CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 61730
IEC 62804 PID
IEC 61701 Salt Mist
IEC 62716 Ammonia Resistance
UL 61730 Fire Type Class 2
UL 790 Fire Class Type C
IEC 62782 Dynamic Mechanical Load
IEC 61215-2:2016 Hailstone (1.37in)
ISO 14001, ISO 9001, IEC 45001, IEC 62941



### TEMPERATURE RATINGS\*

Nominal Module Operating Temperature:	44.3°C (±2°C)
Temperature coefficient of $P_{MAX}$ :	-0.34%/°C
Temperature coefficient of $V_{OC}$ :	-0.26%/°C
Temperature coefficient of $I_{SC}$ :	0.04%/°C

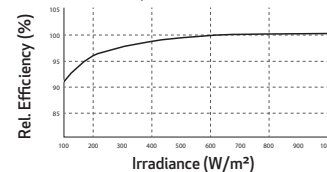
\*The temperature coefficients stated are linear values

### DELIVERY INFORMATION

Panels per pallet:	33
Panels per 40 ft GP/high cube container:	792 (24 pallets)
Panels per 53 ft truck:	TBD

### LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Available from:

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.

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