

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



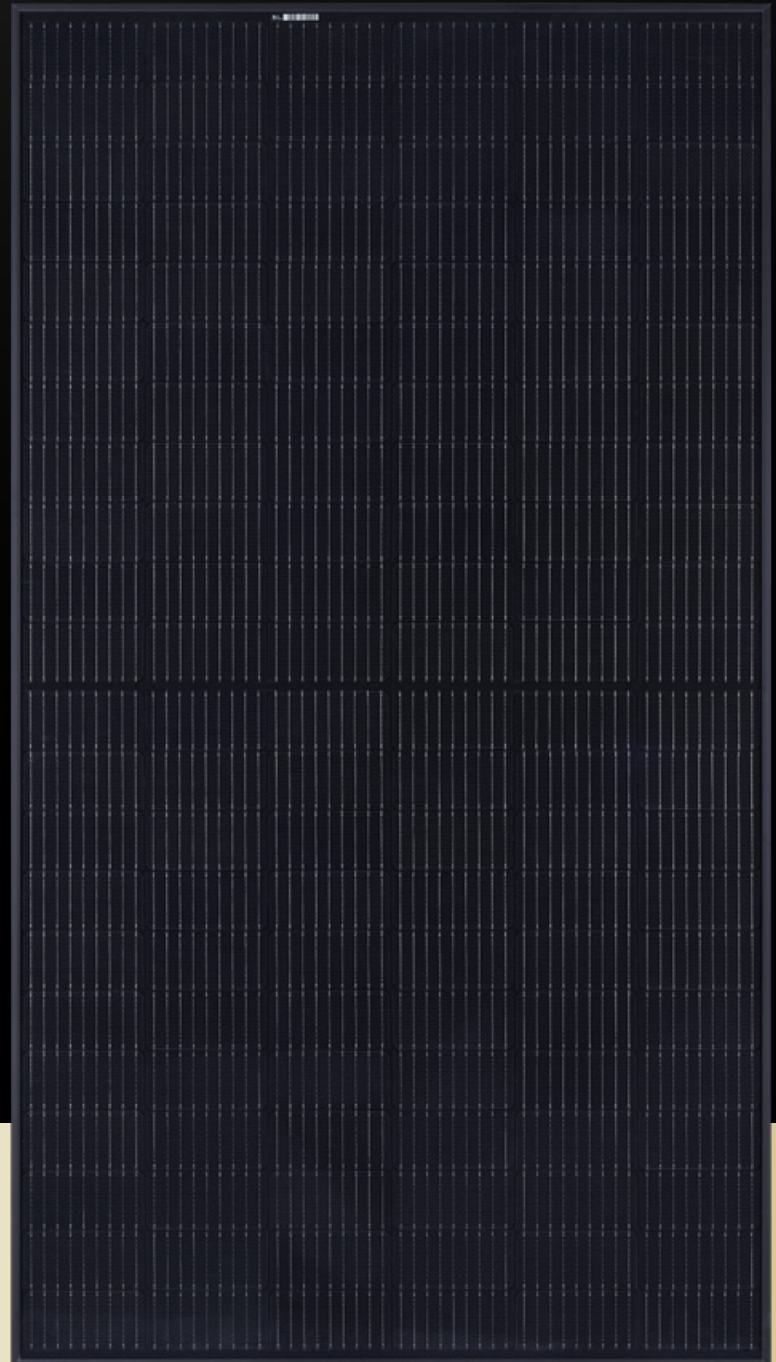
FLEXIBLE INSTALLATION OPTIONS



FEATURING REC'S PIONEERING TWIN DESIGN



BIFACIAL CELLS CAN PRODUCE ENERGY FROM BOTH SIDES



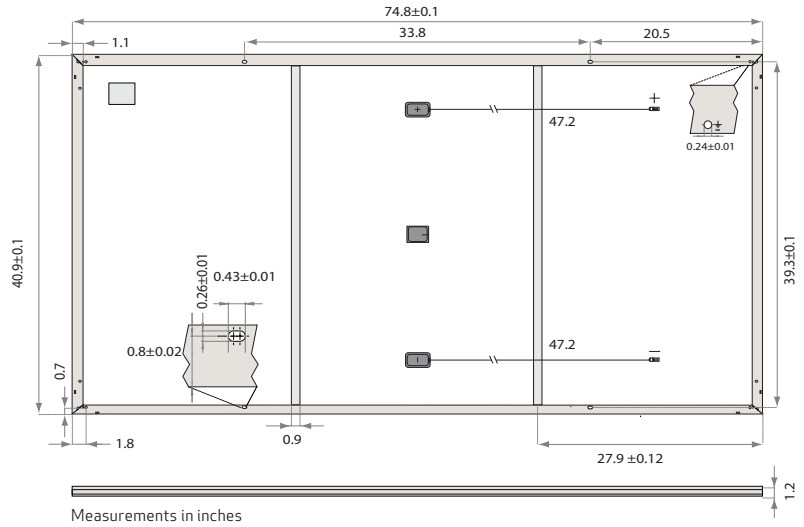
400
WP
POWER



ELIGIBLE

GENERAL DATA

| | |
|---------------|--|
| Cell type: | 132 half-cut, bifacial, 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 (21.25 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 |
| <hr/> | | |
| 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 |

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², 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/m², 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 for more details.

CERTIFICATIONS

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|---|
| 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 |

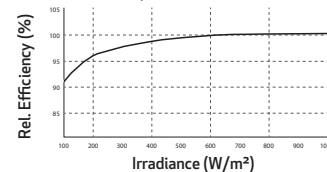
*The temperature coefficients stated are linear values

DELIVERY INFORMATION

| | |
|--|------------------|
| Panels per pallet: | 33 |
| Panels per 40 ft GP/high cube container: | 792 (24 pallets) |
| Panels per 53 ft truck: | 26 |

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Available from: