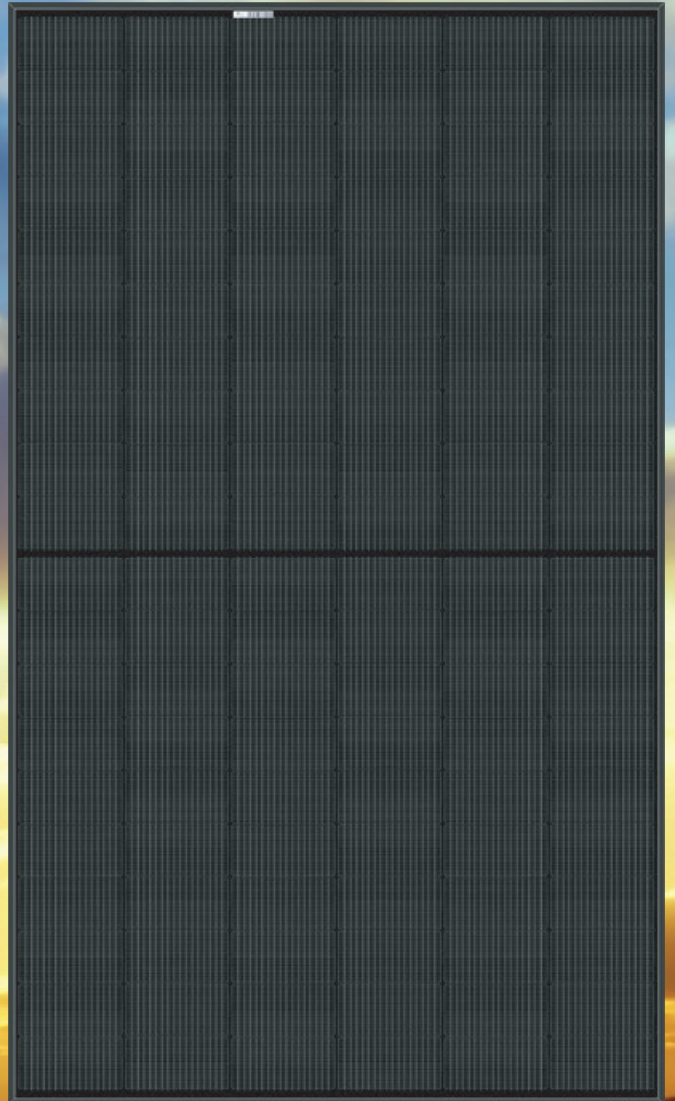


SOLAR'S MOST TRUSTED



REC ALPHA BLACK SERIES

355
WP
POWER



ELIGIBLE FOR



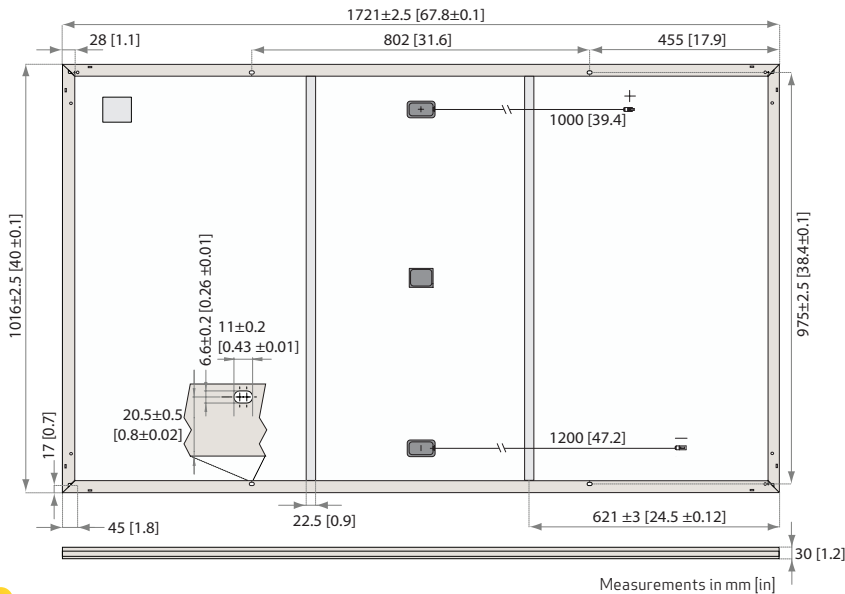
EXPERIENCE



PERFORMANCE

REC ALPHA BLACK SERIES

PRODUCT DATASHEET



GENERAL DATA

| | | | |
|---------------|---|-------------|--|
| Cell type: | 120 half-cut cells with REC heterojunction cell technology 6 strings of 20 cells in series | Connectors: | Stäubli MC4PV-KBT4/KST4, 12AWG (4mm ²) in accordance with IEC 62852 IP68 only when connected |
| Glass: | 0.13 in (3.2 mm) solar glass with anti-reflection surface treatment | Cable: | 12AWG (4mm ²) PV wire, 39+47 in (1+1.2m) in accordance with EN 50618 |
| Backsheet: | Highly resistant polymeric construction (black) | Dimensions: | 67.8x40x1.2 in (1721x1016x30 mm) |
| Frame: | Anodized aluminum (black) | Weight: | 43 lbs (19.5 kg) |
| Junction box: | 3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790 | Origin: | Made in Singapore |

ELECTRICAL DATA

Product Code*: RECxxxAA Black

| | 355 | 360 | 365 | 370 | 375 |
|--|-------|-------|-------|-------|-------|
| Power Output - P _{MAX} (Wp) | 355 | 360 | 365 | 370 | 375 |
| Watt Class Sorting - (W) | -0/+5 | -0/+5 | -0/+5 | -0/+5 | -0/+5 |
| Nominal Power Voltage - V _{MPP} (V) | 36.4 | 36.7 | 37.1 | 37.4 | 37.8 |
| Nominal Power Current - I _{MPP} (A) | 9.77 | 9.82 | 9.85 | 9.90 | 9.94 |
| Open Circuit Voltage - V _{OC} (V) | 43.6 | 43.9 | 44.0 | 44.1 | 44.2 |
| Short Circuit Current - I _{SC} (A) | 10.47 | 10.49 | 10.52 | 10.55 | 10.58 |
| Power Density (W/sq ft) | 18.9 | 19.1 | 19.4 | 19.7 | 19.9 |
| Panel Efficiency (%) | 20.3 | 20.6 | 20.9 | 21.2 | 21.4 |
| Power Output - P _{MAX} (Wp) | 271 | 274 | 278 | 282 | 286 |
| Nominal Power Voltage - V _{MPP} (V) | 34.3 | 34.6 | 35.0 | 35.2 | 35.6 |
| Nominal Power Current - I _{MPP} (A) | 7.89 | 7.93 | 7.96 | 8.00 | 8.03 |
| Open Circuit Voltage - V _{OC} (V) | 41.1 | 41.4 | 41.5 | 41.6 | 41.6 |
| Short Circuit Current - I _{SC} (A) | 8.46 | 8.47 | 8.50 | 8.52 | 8.55 |

Values at standard test conditions (STC: air mass AM1.5, irradiance 10.75 W/sq ft (1000 W/m²), temperature 77°F (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 AM1.5, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s). *Where xxx indicates the nominal power class (P_{MAX}) at STC above.

CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 1703, UL 61730

| | |
|--|-------------------------|
| IEC 62804 | PID |
| IEC 61701 | Salt Mist |
| IEC 62716 | Ammonia Resistance |
| UL 1703 | Fire Type Class 2 |
| IEC 62782 | Dynamic Mechanical Load |
| IEC 61215-2:2016 | Hailstone (35mm) |
| AS4040.2 NCC 2016 | Cyclic Wind Load |
| ISO 14001:2004, ISO 9001:2015, OHSAS 18001:2007, IEC 62941 | |



WARRANTY

| | Standard | | RECProTrust |
|--|----------|--------|-------------|
| | No | Yes | Yes |
| 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% |

See warranty documents for details. Conditions apply.

MAXIMUM RATINGS

| | |
|--------------------------|---------------------------|
| Operational temperature: | -40 ... +85°C |
| Maximum system voltage: | 1000 V |
| Design load (+): snow | 4666 Pa (97.5 lbs/sq ft)* |
| Maximum test load (+): | 7000 Pa (146 lbs/sq ft)* |
| Design load (-): wind | 2666 Pa (55.6 lbs/sq ft)* |
| Maximum test load (-): | 4000 Pa (83.5 lbs/sq ft)* |
| 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

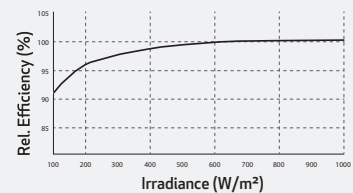
TEMPERATURE RATINGS*

| | |
|---|-------------|
| Nominal Module Operating Temperature: | 44°C (±2°C) |
| Temperature coefficient of P _{MAX} : | -0.26 %/°C |
| Temperature coefficient of V _{OC} : | -0.24 %/°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:



REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power in order to facilitate global energy transitions. Committed to quality and innovation, REC offers photovoltaic modules with leading high quality, backed by an exceptional low warranty claims rate of less than 100ppm. Founded in Norway in 1996, REC employs 2,000 people and has an annual solar panel capacity of 1.8 GW. With over 10 GW installed worldwide, REC is empowering more than 16 million people with clean solar energy. REC Group is a Bluestar Elkem company with headquarters in Norway, operational headquarters in Singapore, and regional bases in North America, Europe, and Asia-Pacific.

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