SOLAR'S MOST TRUSTED

REC

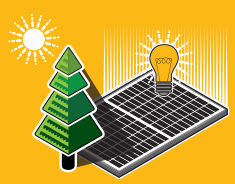
# REC TWINPEAK 5 BLACK SERIES

## PREMIUM SOLAR PANELS WITH SUPERIOR PERFORMANCE

REC TwinPeak 5 Black Series solar panels feature an aesthetically-pleasing full-black design with high panel efficiency and power output, enabling customers to get the most out of the space used for the installation.

Combined with industry-leading product quality and the reliability of a strong and established European brand, REC TwinPeak 5 Black Series panels are ideal for residential and commercial rooftops worldwide.


**MORE POWER OUTPUT PER M²**



**FEATURING REC'S PIONEERING TWIN DESIGN**


**100% PID FREE**

**SUPER-STRONG FRAME**


**ELIGIBLE**

# REC TWINPEAK 5 BLACK SERIES

## PRODUCT SPECIFICATIONS

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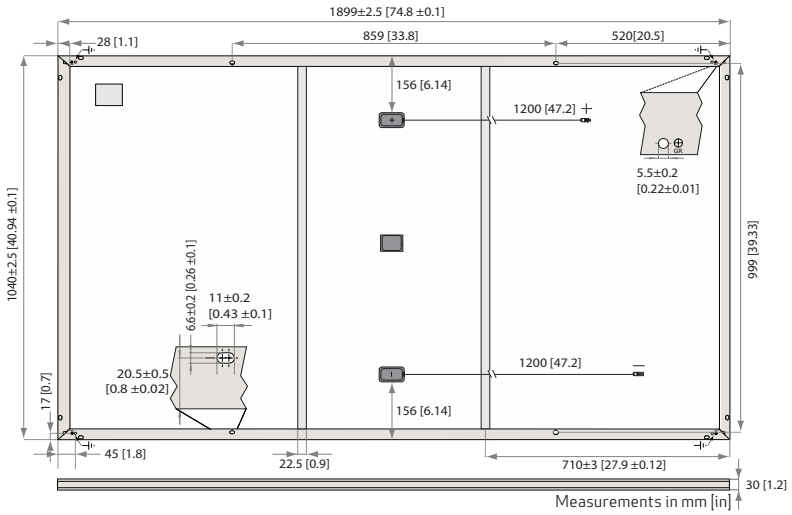
### GENERAL DATA

| | |
|---|---|
| Cell type: | 132 half-cut mono c-Si p-type cells, 6 strings of 22 cells in series |
| Glass: | 3.2 mm 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 (4 mm²) in accordance with IEC 62852, IP68 only when connected |
| Cable: | 4 mm² solar cable, 1.2 m + 1.2 m in accordance with EN 50618 |
| Dimensions: | 1899 x 1040 x 30 mm (1.97 m²) |
| Weight: | 21.6 kg |
| Origin: | Made in Singapore |




### ELECTRICAL DATA — Product Code*: RECxxxTP5 Black

| | | | | |
|---|---|---|---|---|
| STC | | | | |
| Power Output - $P_{MAX}$ (Wp) | 390 | 395 | 400 | 405 |
| Watt Class Sorting - (W) | 0/+5 W | 0/+5 W | 0/+5 W | 0/+5 W |
| Nominal Power Voltage - $V_{MPP}$ (V) | 36.8 | 37.2 | 37.6 | 38.0 |
| Nominal Power Current - $I_{MPP}$ (A) | 10.60 | 10.62 | 10.64 | 10.67 |
| Open Circuit Voltage - $V_{OC}$ (V) | 44.8 | 44.9 | 45.0 | 45.1 |
| Short Circuit Current - $I_{SC}$ (A) | 11.31 | 11.35 | 11.39 | 11.43 |
| Panel Efficiency (%) | 19.8 | 20.1 | 20.3 | 20.6 |
| NMOT | | | | |
| Power Output - $P_{MAX}$ (Wp) | 295 | 298 | 302 | 306 |
| Nominal Power Voltage - $V_{MPP}$ (V) | 34.4 | 34.8 | 35.2 | 35.5 |
| Nominal Power Current - $I_{MPP}$ (A) | 8.56 | 8.58 | 8.59 | 8.62 |
| Open Circuit Voltage - $V_{OC}$ (V) | 41.9 | 42.0 | 42.1 | 42.2 |
| Short Circuit Current - $I_{SC}$ (A) | 9.13 | 9.17 | 9.20 | 9.23 |

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.

### CERTIFICATIONS (PENDING)

| | |
|---|---|
| IEC 61215:2016, IEC 61730:2016, UL 61730 | |
| IEC 62804 | PID |
| IEC 61701 | Salt Mist |
| IEC 62716 | Ammonia Resistance |
| ISO 11925-2 | Ignitability (Class E) |
| IEC 62782 | Dynamic Mechanical Load |
| IEC 61215-2:2016 | Hailstone (35mm) |
| ISO 14001, ISO 9001, IEC 45001, IEC 62941 | |

take-e-way WEEE-compliant recycling scheme

### TEMPERATURE RATINGS*

| | |
|---|---|
| Nominal Module Operating Temperature: | 44.6°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

### MAXIMUM RATINGS

| | |
|---|---|
| Operational temperature: | -40 ... +85°C |
| Maximum system voltage: | 1000 V |
| Maximum test load (front): | +7000 Pa (713 kg/m²)* |
| Maximum test load (rear): | -4000 Pa (407 kg/m²)* |
| 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 | 0.5% | 0.5% | 0.5% |
| Power in Year 25 | 86% | 86% | 86% |

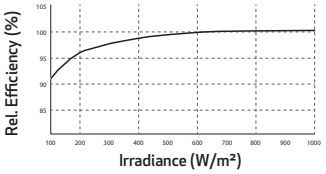
See warranty documents for details. Conditions apply

### DELIVERY INFORMATION

| | |
|---|---|
| Panels per pallet: | 33 |
| Panels per 40 ft GP/high cube container: | 858 (26 pallets) |
| Panels per 13.6 m truck: | 924 (28 pallets) |
| Panels per 53 ft truck: | 924 (28 pallets) |

### 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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