SOLAR'S MOST TRUSTED

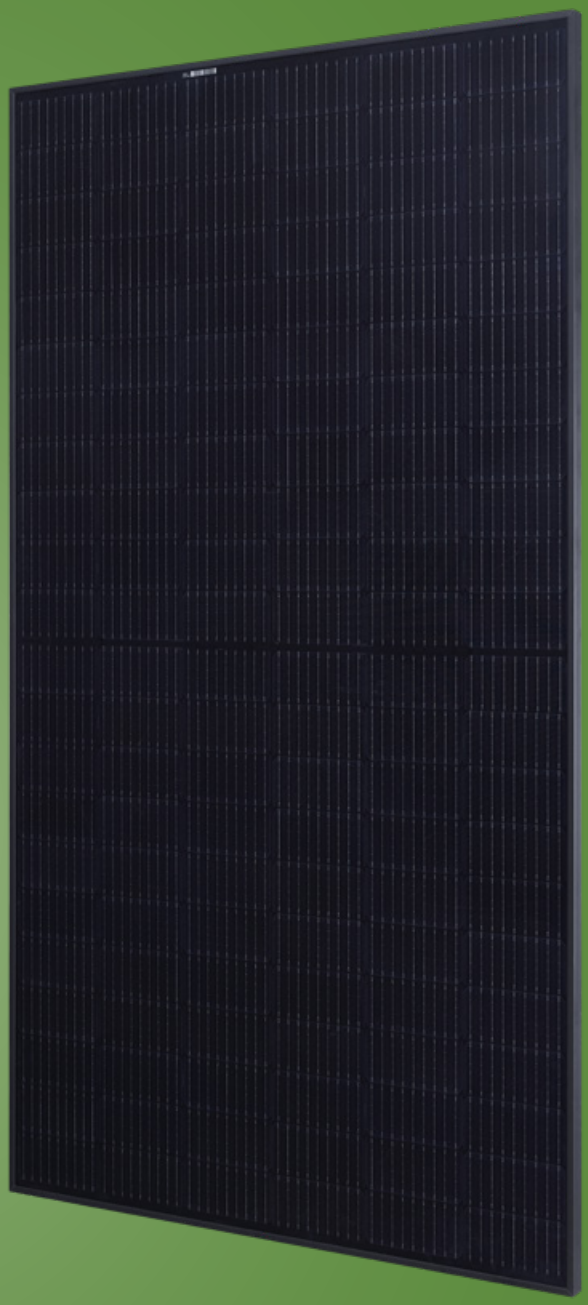
REC

REC TWINPEAK 5 BLACK SERIES

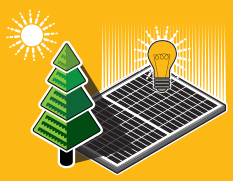
PREMIUM SOLAR PANELS WITH SUPERIOR PERFORMANCE

REC TwinPeak 5 Black Series solar panels feature an innovative 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

SUPER-STRONG FRAME

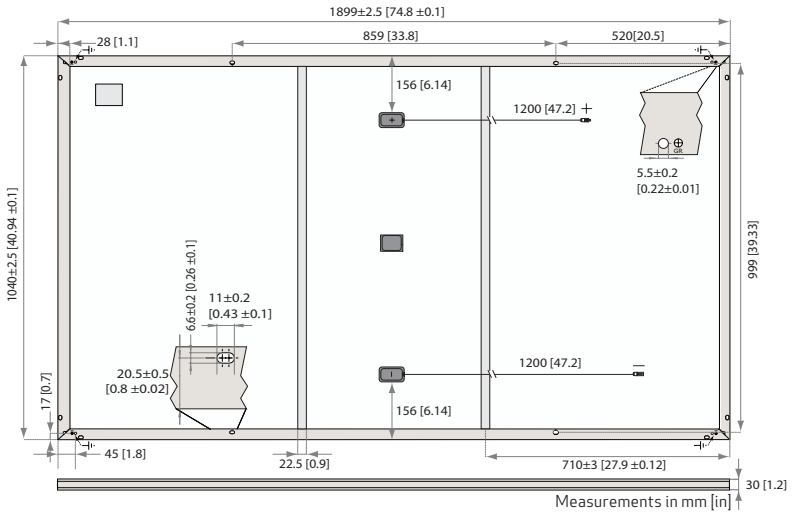
ELIGIBLE

REC
SOLAR'S MOST TRUSTED

REC TWINPEAK 5 BLACK SERIES
PRODUCT SPECIFICATIONS

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	410
Watt Class Sorting - (W)	0/+5 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	38.3
Nominal Power Current - I_{MPP} (A)	10.60	10.62	10.64	10.67	10.71
Open Circuit Voltage - V_{OC} (V)	44.8	44.9	45.0	45.1	45.2
Short Circuit Current - I_{SC} (A)	11.31	11.35	11.39	11.43	11.47
Panel Efficiency (%)	19.8	20.1	20.3	20.6	20.8
NMOT					
Power Output - P_{MAX} (Wp)	295	298	302	306	310
Nominal Power Voltage - V_{MPP} (V)	34.4	34.8	35.2W	35.5	35.8
Nominal Power Current - I_{MPP} (A)	8.56	8.58	8.59	8.62	8.65
Open Circuit Voltage - V_{OC} (V)	41.9	42.0	42.1	42.2	42.3
Short Circuit Current - I_{SC} (A)	9.13	9.17	9.20	9.23	9.27

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

IEC 61215:2016, IEC 61730:2016, UL 61730	
ISO 11925-2	Ignitability (Class E)
UL 790	Fire Class C
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
ISO 14001, ISO 9001, IEC 45001, IEC 62941	

Intertek

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%

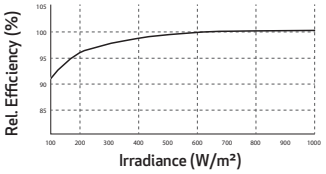
The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See www.recgroup.com for more details.

DELIVERY INFORMATION

Panels per pallet:	33
Panels per 13.6 m truck:	858 (26 pallets)
Panels per 40 ft GP/high cube container	792 (24 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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Ref: Rev 1.1 -11.22