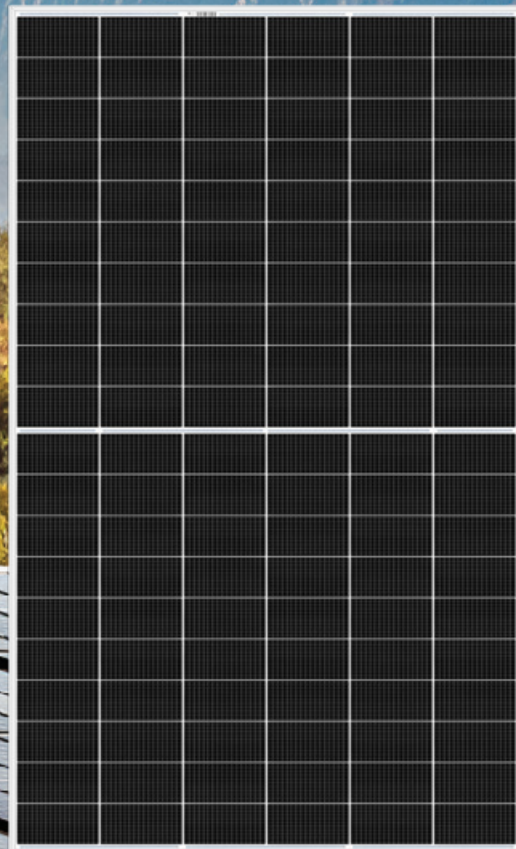


SOLAR'S MOST TRUSTED



# REC ALPHA<sup>®</sup> PRO M

## DATASHEET



600 - 640W  
HETEROJUNCTION  
TECHNOLOGY

22.5% MAX EFFICIENCY  
>92% POWER IN YEAR 25  
-0.24%/°C TEMPERATURE  
COEFFICIENT OF  $P_{MAX}$

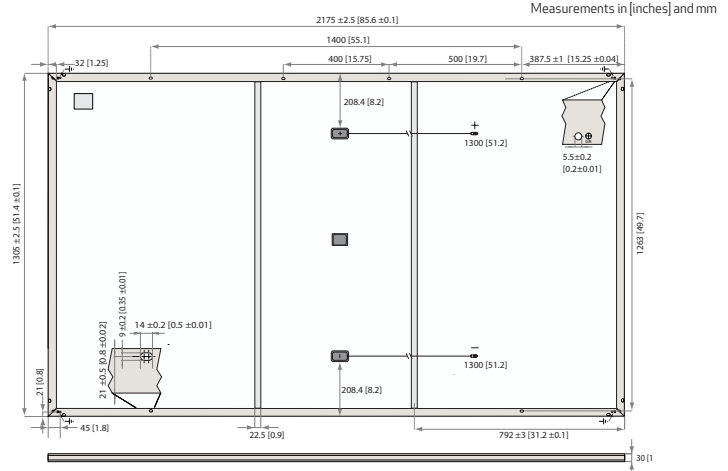


# REC ALPHA® PRO M

## DATASHEET

### GENERAL DATA

Cell Type	120 half-cut REC bifacial heterojunction cells
Glass	0.13 in solar glass with anti-reflective surface treatment in accordance with EN12150
Backsheet	Highly resistant polymer (White)
Frame	Anodized aluminum (Silver)
Junction Box	3-part, 3 bypass diodes, IP68 rated, in accordance with IEC 62790:2020
Connectors	Stäubli MC4 PV-KBT4-EVO2/KST4-EVO2 (12 AWG; MC4-EVO2) in accordance with IEC 62852:2014, IP68 only when connected
Cable	12 AWG solar cable, 51.2 in (1.30 m) + 51.2 in (1.30 m) in accordance with EN50618:2014
Dimensions	85.6 x 51.4 x 1.2 in (30.6 ft²) / 2175 x 1305 x 30 mm (2.84 m²)
Weight	71.6 lb / 32.5 kg
Origin	Made in Singapore



Specifications subject to change without notice.

### ELECTRICAL DATA

PRODUCT CODE\*: RECXXXAA PRO M

Power Output - P <sub>MAX</sub> (WP)	600	610	620	630	640
Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - V <sub>MPP</sub> (V)	36.0	36.3	36.6	36.8	37.1
Nominal Power Current - I <sub>MPP</sub> (A)	16.67	16.81	16.94	17.12	17.26
Open Circuit Voltage - V <sub>OC</sub> (V)	44.2	44.3	44.4	44.5	44.6
Short Circuit Current - I <sub>SC</sub> (A)	17.65	17.72	17.79	17.86	17.93
Power Density (W/ft²)	19.6	19.9	20.3	20.6	20.9
Panel Efficiency (%)	21.1	21.5	21.8	22.2	22.5

Power Output - P <sub>max</sub> (WP)	457	464	472	480	487
Nominal Power Voltage - V <sub>MPP</sub> (V)	33.9	34.2	34.5	34.7	35.0
Nominal Power Current - I <sub>MPP</sub> (A)	13.46	13.58	13.68	13.83	13.94
Open Circuit Voltage - V <sub>OC</sub> (V)	41.7	41.7	41.8	41.9	42.0
Short Circuit Current - I <sub>SC</sub> (A)	14.26	14.31	14.37	14.43	14.48

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<sub>MAX</sub>, V<sub>OC</sub> & I<sub>SC</sub> ±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<sub>MAX</sub>) at STC above.

### TEMPERATURE COEFFICIENT\*

P <sub>MAX</sub> -0.24%/°C	V <sub>OC</sub> -0.24%/°C	I <sub>SC</sub> 0.04%/°C	*The temperature coefficients stated are linear values
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### MODULE RATINGS

Module Operating Temperature [T98] <sup>§</sup>	158°F (70°C)
Min Environmental Temperature	-40°F (-40°C)
Nominal Module Operating Temperature	44 ± 2°C
Max Hail Rating	35 mm @ 27.2 m/s
System Voltage	1500 V
Max Series Fuse Rating	35 A
Max Reverse Current	35 A

§ 98th percentile operating temperature

### MAXIMUM TEST LOAD\*

Front (4-Point)*	+5400 Pa (113 lbs/ft²)
Rear (4-Point)*	-2400 Pa (50 lbs/ft²)

Design load = Test load / 1.5 (safety factor)  
\*IEC61730/UL61730 certified. Refer to installation manual.

### CERTIFICATIONS

ISO 14001; ISO 9001; IEC 45001; IEC 62941
IEC 61215:2021; IEC 61730:2023; UL 61730
ISO 11925-2 Ignitability (EN 13501-1 Class E)
IEC 61701 Salt Mist (SM6)
IEC 61215:2016 Hailstone (35mm)
UL 61730 Fire Type I



### WARRANTY

	Standard	REC ProTrust	
Installed by an REC	No	Yes	Yes
Certified Professional			
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%

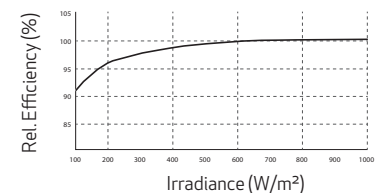
REC ProTrust Warranty applies only for i) REC panels installed by an REC Certified Solar Professional, and ii) panels have been registered by the installer with REC. Subject to System Size and further conditions. See [www.recgroup.com](http://www.recgroup.com) for details.

### DELIVERY INFORMATION

Panels per Pallet	33
Panels per 40 ft GP/high cube container	528 (16 Pallets)
Panels per 53 ft truck	594 (18 Pallets)

### LOW LIGHT BEHAVIOR

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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