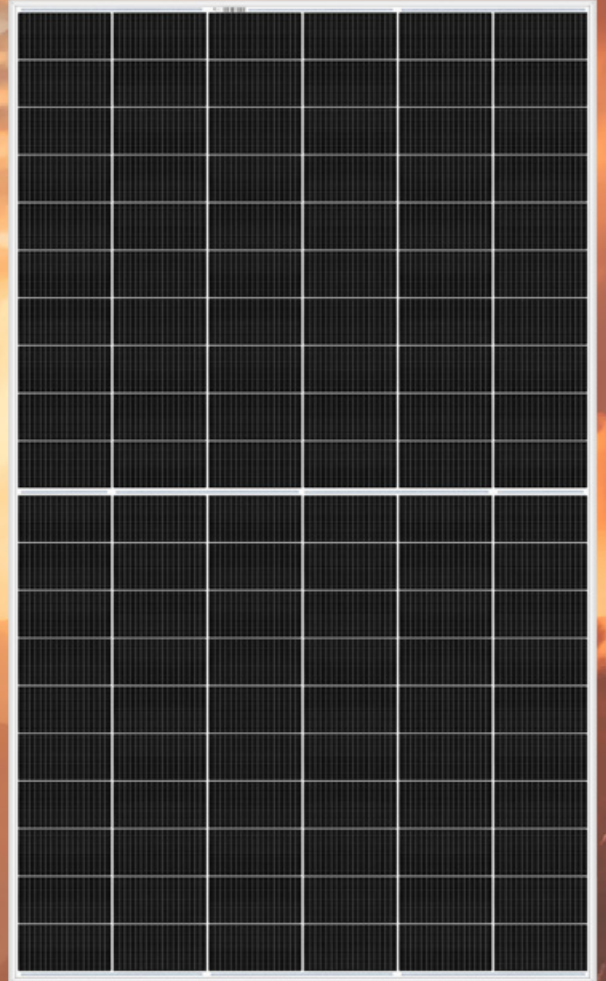


SOLAR'S MOST TRUSTED



# REC ALPHA PRO M SERIES



640 WP

225  $\frac{W}{M^2}$

EXPERIENCE



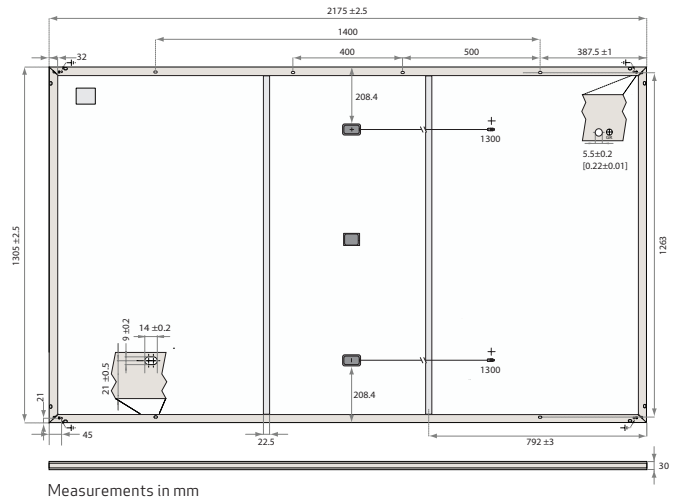
PERFORMANCE

# REC ALPHA PRO M SERIES

## PRODUCT SPECIFICATIONS

### GENERAL DATA

Cell type:	120 half-cut bifacial REC heterojunction cells
Glass:	3.2 mm 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
Connectors:	Stäubli MC4-Evo2 (4 mm <sup>2</sup> ) in accordance with IEC 62852, IP68 only when connected
Cable:	4 mm <sup>2</sup> solar cable, 1.3 + 1.3 m in accordance with EN 50618
Dimensions:	2175 x 1305 x 30 mm (2.8 m <sup>2</sup> )
Weight:	32.5 kg
Origin:	Made in Singapore



### ELECTRICAL DATA

	610	620	630	640
Power Output - P <sub>MAX</sub> (Wp)	610	620	630	640
Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - V <sub>MPP</sub> (V)	36.3	36.6	36.8	37.1
Nominal Power Current - I <sub>MPP</sub> (A)	16.81	16.94	17.12	17.26
Open Circuit Voltage - V <sub>OC</sub> (V)	44.4	44.6	44.7	44.9
Short Circuit Current - I <sub>SC</sub> (A)	17.56	17.67	17.78	17.89
Power Density (W/m <sup>2</sup> )	215	218	222	225
Panel Efficiency (%)	21.5	21.8	22.2	22.5

	464	469	477	485
Power Output - P <sub>MAX</sub> (Wp)	464	469	477	485
Nominal Power Voltage - V <sub>MPP</sub> (V)	34.2	34.3	34.5	34.8
Nominal Power Current - I <sub>MPP</sub> (A)	13.58	13.69	13.84	13.95
Open Circuit Voltage - V <sub>OC</sub> (V)	41.9	41.8	41.9	42.1
Short Circuit Current - I <sub>SC</sub> (A)	14.18	14.28	14.37	14.46

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m<sup>2</sup>, 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 AM1.5, irradiance 800 W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s). \* Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC above.

### MAXIMUM RATINGS

Operational temperature:	-40 ... +85°C
System voltage:	1500 V
Test load (front):	+ 5400 Pa (550 kg/m <sup>2</sup> )*
Test load (rear):	- 2400 Pa (245 kg/m <sup>2</sup> )*
Series fuse rating:	35 A
Reverse current:	35 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
System Size	All	≤25 kW 25-500 kW
Product Warranty (yrs)	20	25
Power Warranty (yrs)	25	25
Labor Warranty (yrs)	0	25
Power in Year 1	98%	98%
Annual Degradation	0.25%	0.25%
Power in Year 25	92%	92%

See warranty documents for details. Conditions apply

### CERTIFICATIONS

IEC 61215:2021, IEC 61730:2016, UL 61730  
IS 14286:2010  
IS/IEC 61730:2004  
ISO 14001, ISO 9001, IEC 45001, IEC 62941



### TEMPERATURE RATINGS\*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P <sub>MAX</sub> :	-0.24 %/°C
Temperature coefficient of V <sub>OC</sub> :	-0.24 %/°C
Temperature coefficient of I <sub>SC</sub> :	0.04 %/°C

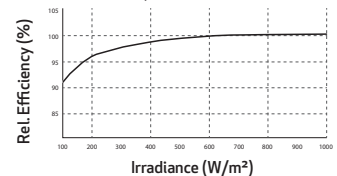
\*The temperature coefficients stated are linear values

### DELIVERY INFORMATION

Panels per pallet:	33
Panels per 40 ft GP/high cube container:	528 (16 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.

REC Solar PTE. LTD.  
20 Tuas South Ave. 14  
Singapore 637312  
post@recgroup.com  
www.recgroup.com