

REC ALPHA® PRO M



600 - 640W HETEROJUNCTION TECHNOLOGY

225 W/M2 POWER DENSITY

>92% POWER IN YEAR 25

-0.24%/°C

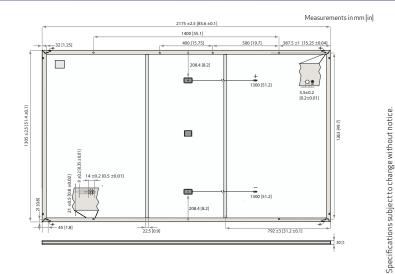


ELIGIBLE

REC ALPHA® PRO M DATASHEET



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30 m
2014
4 m²)
2.5 kg
pore



ELECTRICAL DATA		PRODUCT CODE*: RECxxxAA Pro M			
Power Output - P _{MAX} (WP)	600	610	620	630	640
Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - $V_{MPP}(V)$	36.0	36.3	36.6	36.8	37.1
Nominal Power Current - $I_{MPP}(A)$	16.67	16.81	16.94	17.12	17.26
Open Circuit Voltage - $V_{OC}(V)$	44.2	44.3	44.4	44.5	44.6
Short Circuit Current - $I_{SC}(A)$	17.65	17.72	17.79	17.86	17.93
Power Density (W/m²)	211	215	218	222	225
Panel Efficiency (%)	21.1	21.5	21.8	22.2	22.5
Power Output - $P_{MAX}(W_p)$	457	464	472	480	487
Nominal Power Voltage - $V_{MPP}(V)$	33.9	34.2	34.5	34.7	35.0
Nominal Power Current - $I_{MPP}(A)$	13.46	13.58	13.68	13.83	13.94
Open Circuit Voltage - $V_{oc}(V)$	41.7	41.7	41.8	41.9	42.0
Short Circuit Current - $I_{SC}(A)$	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_{MAXV} V_{GC} &L $_{SC}$ $\pm 3\%$ 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_{MAXV}) at STC above.

I_{sc} 0.04%/°C

35 A

35 A

TEMPERATURE COEFFICIENT *

System Voltage

Available from:

Max Series Fuse Rating

Max Reverse Current

P_{MAX} -0.24%/°C V_{oc} -0.24%/°C

MODULE RATINGS	
Module Operating Temperature [T98]§	70°C
Min Environmental Temperature	-40°C
Nominal Module Operating Temperature	44 ± 2°C
Max Hail Rating	35 mm @ 27.2 m/s
System Voltage	1500 V

§ 98th percentile operating temperature

MAXIMUM TEST LOAD*

Front (4-Point)* +5400 Pa (551 Kg/m²) -2400 Pa (245 Kg/m²) Rear (4-Point)* Design load = Test load / 1.5 (safety factor)

*The temperature coefficients stated are linear values

*IEC61730/UL61730 certified. Refer to installation manual.

CERTIFICATIONS

	ISO 14001; ISO 9001	; IEC45001; IEC62941
	IEC 61215:2021;IEC	61730:2023;UL 61730
	IEC 61730	Fire Class C (as per UL790)
	ISO 11925-2	Ignitability (EN 13501-1 Class E)
	IEC 61701	Salt Mist - SM6 (Optional)
	IEC 61215:2016	Hailstone (35 mm)
	UL 61730	Fire Type 1









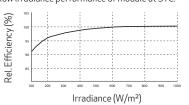
Take-e-way WEEE-compliant scheme

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 for details.

DELIVERY INFORMATION

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



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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IECAUCEC 10.2025 V4.9 REF: PM-DS-12-06/01.04.05.01 LOW LIGHT BEHAVIOUR Typical low irradiance performance of module at STC: