

REC ALPHA® PRO M SERIES



600 - 640W HETEROJUNCTION **TECHNOLOGY**

225 W/M2 POWER DENSITY

>92% POWER IN YEAR 25

TEMPERATURE COEFFICIENT OF P_{MAX} -0.24%/°C

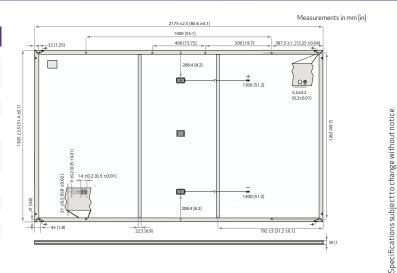


ELIGIBLE

REC ALPHA® PRO M SERIES DATASHEET



GENERAL DAT	ГА
Cell Type	120 half-cut REC bifacial 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 62790:2020
Connectors	Stäubli MC4 PV-KBT4-EV02/KST4-EV02 (4 mm²; MC4-EV02)
	in accordance with IEC 62852:2014, IP68 only when connected
Cable	$4 \text{mm}^2 \text{solar cable}, 1.30 \text{m} + 1.30 \text{m}$
	in accordance with EN50618:2014
Dimensions	2175 x 1305 x 30 mm (2.84 m ²)
Weight	32.5 kg
Origin	Made in Singapore



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_MDD (A) 16.67 16.81 16.94 17.12 17.26 Open Circuit Voltage - Voc (V) 44.2 44.3 44.4 445 44.6 Short Circuit Current - I_{SC} (A) 1765 1772 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

, we always the production spread with a tolerance of P_{MADV} V_{OC} & I_{SC} ±3% rature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). *Where xxxx indicates Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of P, within one watt class. Nominal module operating tempe the nominal power class (P_{MAX}) at STC above.

MODULE RATINGS	
Module Operating Temperature [T98]§	70°C
Min. Environmental Temperature	-40°C
System Voltage	1500 V
Maximum Test Load (4 Point Mounting, Front)*	+5400 Pa (551 Kg/m²)
Maximum Test Load (⁴Point Mounting, Rear)*	-2400 Pa (245 Kg/m²)
Max Series Fuse Rating	35 A
Max Reverse Current	35 A
8	1 7 11 1/15/ 6 6 1 1

Available from:

Design load = Test load / 1.5 (safety factor) § 98th percentile operating temperature

*IEC61730/UL61730 certified. Refer to installation manual

TEMPERATURE RATINGS*	
Nominal Module Operating Temperature	44 ± 2°C
Temperature coefficient of P _{MAX}	-0.24%/°C
Temperature coefficient of V _{oc}	-0.24%/°C
Temperature coefficient of I _{sc}	0.04%/°C

*The temperature coefficients stated are linear values

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 (35 mm)

Fire Type 1



UL 61730







Take-e-way WEEE-compliant scheme

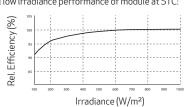
WARRANTY					
	Standard	REC ProTrust			
Installed by an REC	No	Yes	Yes		
Certified Professional					
System Size	All	<25 kW	25-500 kW		
Product Warranty (yrs)	20	25	25		
Power Warranty (yrs)	25	25	25		
Labor Warranty (yrs)	0	25	10		
Power in Year 1	98%	98%	98%		
Annual Degradation	0.25%	0.25%	0.25%		
Power in Year 25	92%	92%	92%		
			DECC UC I		

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

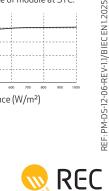
DELIVERY INFORMATION				
Panels per Pallet	33			
Panels per 40 ft GP/high cube container	528 (16 Pallets)			

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



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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