



## REC ALPHOC® PURE SERIES PRODUCT SPECIFICATIONS





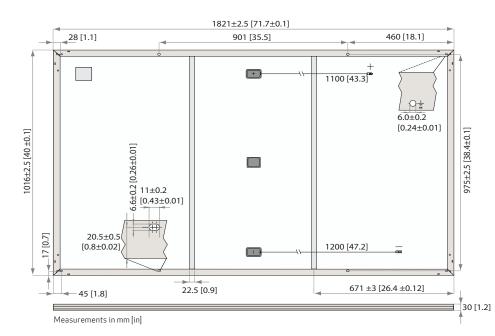






### PRODUCT SPECIFICATIONS





#### GENERAL DATA

Cell type:	132 half-cut REC heterojunction cells with lead-free, gapless technology 6 strings of 22 cells in series	Connectors:
Glass:	3.2 mm solar glass with anti-reflective surface treatment	Cable:
Backsheet:	Highly resistant polymer (black)	Dimensions:
Frame:	Anodized aluminum (black)	Weight:
Junction box:	3-part, 3 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790	Origin:

#### ELECTRICAL DATA

STC	Power Output - P <sub>MAX</sub> (Wp)	385	390	395	400	405
	Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5
	Nominal Power Voltage - V <sub>MPP</sub> (V)	41.2	41.5	41.8	42.1	42.4
	Nominal Power Current - I <sub>MPP</sub> (A)	9.35	9.40	9.45	9.51	9.56
	Open Circuit Voltage - V <sub>oc</sub> (V)	48.5	48.6	48.7	48.8	48.9
	Short Circuit Current - I <sub>sc</sub> (A)	10.10	10.15	10.20	10.25	10.30
	Power Density (W/m²)	208.1	210.8	213.5	216.2	219.0
NMOT	Panel Efficiency (%)	20.8	21.1	21.3	21.6	21.9
	Power Output - P <sub>MAX</sub> (Wp)	293	297	301	305	309
	Nominal Power Voltage - V <sub>MPP</sub> (V)	38.8	39.1	39.4	39.7	40.0
	Nominal Power Current - I <sub>MPP</sub> (A)	7.55	7.59	7.63	7.68	7.72
	Open Circuit Voltage - V <sub>oc</sub> (V)	45.7	45.8	45.9	46.0	46.1
	Short Circuit Current - I <sub>sc</sub> (A)	8.16	8.20	8.24	8.28	8.32

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m<sup>2</sup>, temperature 25°C), based on a production spread with a tolerance of  $P_{MAXV}$   $V_{0C}$  &  $I_{SC}$  ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s). \* Where xxx indicates the nominal power class ( $P_{MAXV}$ ) at STC above.

# 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.

#### CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 61730 (Pending) ISO 14001:2004, ISO 9001:2015, OHSAS 18001:2007, IEC 62941



#### WARRANTY\*

Standard	REC ProTrust	
No	Yes	Yes
All	≤25 kW	25-500 kW
20	25	25
25	25	25
0	25	10
98%	98%	98%
0.25%	0.25%	0.25%
92%	92%	92%
	No All 20 25 0 98% 0.25%	No Yes   All <25 kW

See warranty documents for details. Conditions apply

#### MAXIMUM RATINGS

Stäubli MC4PV-KBT4/KST4 (4 mm²) in accordance with IEC 62852

Product Code\*: RECxxxAA Pure

IP68 only when connected 4 mm<sup>2</sup> solar cable, 1.1 m + 1.2 m

in accordance with EN 50618 1821 x 1016 x 30 mm

Made in Singapore

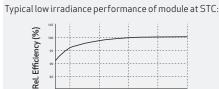
20.5 kg

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
	n manual for mounting instructions 1 load = Test load / 1.5 (safety factor

#### TEMPERATURE RATINGS\*

Nominal Module Operating Temperature:	44°C (±2°C)		
Temperature coefficient of P <sub>MAX</sub> :	-0.26 %/°C		
Temperature coefficient of $V_{\text{oc}}$ :	-0.24 %/°C		
Temperature coefficient of I <sub>sc</sub> :	0.04 %/°C		
'The temperature coefficients stated are linear values			

#### LOW LIGHT BEHAVIOUR



Irradiance (W/m<sup>2</sup>)

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