SOLAR'S MOST TRUSTED







405WP 20.3 W/FT2





EXPERIENCE

PERFORMANCE

Measurements in mm [in]

01:11:17:12:27	****		
Cell type:	132 half-cut REC heterojunction cells with lead-free, gapless technology 6 strings of 22 cells in series	Connectors:	Stäubli MC4PV-KBT4/KST4,12AWG (4 mm²) in accordance with IEC 62852 IP68 only when connected
Glass:	0.13 in (3.2 mm) solar glass with anti-reflection surface treatment	Cable:	12 AWG (4 mm²) PV wire, 43+47 in (1.1+1.2 m) accordance with EN 50618
Backsheet:	Highly resistant polymer (black) Dim	Dimensions:	71.7 x 40 x 1.2 in (1821 x 1016 x 30 mm)
Frame:	Anodized aluminum (black)	Weight:	45 lbs (20.5 kg)
Junction box:	3-part, 3 bypass diodes, IP68 rated	Origin:	Made in Singapore

<b>e</b>	ELECTRICAL DATA	Pr	oduct Code	*: RECxxxA	A Pure	
	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
NMOT STC	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)	10.18	10.19	10.20	10.25	10.30
	Power Density (W/sq ft)	19.3	19.6	19.8	20.1	20.3
	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 - $V_{MPP}(V)$	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

 $Values \ at \ standard \ test \ conditions \ (STC: air \ mass \ AM 1.5, irradiance \ 10.75 \ W/sq \ ft \ (1000 \ W/m^2), temperature \ 77^{\circ}F \ (25^{\circ}C), based \ on \ a \ production$ spread with a tolerance of  $P_{MNx}$   $V_{Cc}$  & $I_{sc}$  ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s).\* Where xxx indicates the nominal power class ( $P_{MXX}$ ) at STC above.

## CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 61730		
IEC 62804	PID	
IEC 61701	Salt Mist	
IEC 62716	Ammonia Resistance	
UL 61730	Fire Type Class 2	
IEC 62782	Dynamic Mechanical Load	
IEC 61215-2:2016	Hailstone (35mm)	
IEC 62321	Lead-free acc. to RoHS EU 863/2015	
ISO 14001:2004, ISO 9001:2015, OHSAS 18001:2007, IEC 62941		











#### WARRANTY

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

See warranty documents for details. Conditions apply

# MAXIMUM RATINGS

Operational temperature:	-40+185°F (-40+85°C)
Maximum system voltage:	1000 V
Maximum test load (front):	+7000Pa (146 lbs/sq ft)*
Maximum test load (rear):	- 4000 Pa (83.5 lbs/sq ft)*
Max series fuse rating:	25 A
Max reverse current:	25 A

\*See installation manual for mounting instructions Design load = Test load / 1.5 (safety factor)

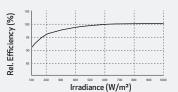
### TEMPERATURE RATINGS\*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of $P_{\text{MAX}}$ :	-0.26 %/°C
Temperature coefficient of $V_{oc}$ :	-0.24 %/°C
Temperature coefficient of I <sub>sc</sub> :	0.04 %/°C

\*The temperature coefficients stated are linear values

#### LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:





Ref: PM-DS-12-01-Rev- C 10.21