

REC ALPHA PURE-R SERIES

PRODUCT SPECIFICATIONS



GENERAL D	ATA		
Cell type:	80 half-cut REC bifacial, heterojunction cells with lead-free, gapless technology		
Glass:	$0.13 in (3.2 mm) solar glass with anti-reflective surface treatment \\in accordance with EN 12150$		
Backsheet:	Highly resistant polymer (black)		
Frame:	Anodized aluminum (black		
Junction box:	4-part, 4 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790		
Connectors:	$St\"{a}ubli\ MC4\ PV-KBT4/KST4\ (12\ AWG)$ in accordance with IEC 62852, IP68 only when connected		
Cable:	12 AWG (4 mm²) PV wire, 67 + 67 in (1.7 + 1.7 m) in accordance with EN 50618		
Dimensions:	$68.1x44.0x1.2\text{in}(20.77\text{ft}^2)/1730x1118x30\text{mm}(1.93\text{m}^2)$		
Weight:	47.4 lbs (21.5 kg)		
Origin:	Made in Singapore		

→ ²	8 [1.1]	1730±2.5 [68.1±0.1] 880 [34.6]	425 [16.7]	
1118±25 [44,0±0.1]	1700 [67] 1700 [67] 1700 [67] 100 000000000000000000000000000000000	Lorem ipsum	0.05.02 [0.24±0.01] 1700 [67]	1077±2.5 [42.4±0.1]
1		5 [0.9]	594±3 [23.4±0.12]	
Mea	surements in inches	[mm]		30 [1.2]

	ELECTRICAL DATA		Product Code*: RE	CxxxAA PURE-	R
	Power Output - P_{MAX} (Wp)	400	410	420	430
	Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10
	Nominal Power Voltage - $V_{MPP}(V)$	48.8	49.4	50.0	50.5
STC	Nominal Power Current - I_{MPP} (A)	8.20	8.30	8.40	8.52
'n	Open Circuit Voltage - V _{oc} (V)	58.9	59.2	59.4	59.7
	$ShortCircuitCurrent\text{-}I_{SC}(A)$	8.80	8.84	8.88	8.91
	Power Density (W/ft²)	19.26	19.74	20.22	20.70
	Panel Efficiency (%)	20.7	21.2	21.8	22.3
	Power Output - P _{MAX} (Wp)	305	312	320	327
_	Nominal Power Voltage - $V_{MPP}(V)$	46.0	46.6	47.1	47.6
NMOT	Nominal Power Current - I_{MPP} (A)	6.64	6.70	6.80	6.88
Z	Open Circuit Voltage - $V_{OC}(V)$	55.5	55.8	56.0	56.3
	Short Circuit Current - I _{SC} (A)	7.11	7.16	7.20	7.24

 $Values at standard test conditions (STC: air mass AM 1.5, irradiance 10.75 \ W/sq ft (1000 \ W/m^2), temperature 77 \ F(25 \ C), based on a production spread of the production of the product$ with a tolerance of P_{MWV} V_{OC} & I_{SC} ±396 within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m² temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s), *Where xxxx indicates the nominal power class (P_{MWV}) at STC above.

MAXIMUM RATINGS	
Operational temperature:	-40+85°C
System voltage:	1000 V
Test load (front):	+7000 Pa (146 lbs/ft²)*
Test load (rear):	- 4000 Pa (83.5 lbs/ft²)*
Series fuse rating:	25 A
Reverse current:	25 A

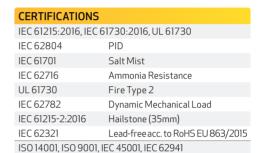
*See installation manual for mounting instructions. Design load = Test load / 1.5 (safety factor)

WARRANTY			
	Standard	REC	ProTrust
Installed by an REC Certified Solar Professional	No	Yes	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%
Soowarranty docu	monte for de	ataile Cor	ditions apply

See warranty documents for details. Conditions apply

Available from:

Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumerswith 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.







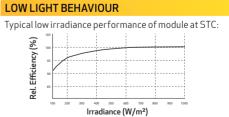






TEMPERATURE RATINGS*			
Nominal Module Operating Temperature:	44°C (±2°C)		
Temperature coefficient of P_{MAX} :	-0.24 %/°C		
Temperature coefficient of V_{oc} :	-0.24 %/°C		
Temperature coefficient of I _{sc} :	0.04 %/°C		
*The temperature coefficients stated are linear values			

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 40 ft GP/high cube container:	858 (26 pallets)
Panels per 53 ft truck:	858 (26 pallets)



REC Solar PTE. LTD.

Singapore 637312

post@recgroup.com www.recgroup.com

20 Tuas South Ave. 14