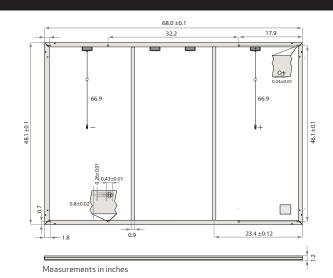




Weight:

Origin:

GENERAL DATA 88 half-cut bifacial REC heterojunction cells Cell type: with lead-free, gapless technology $0.12\,in\,solar\,glass\,with\,anti-reflective\,surface\,treatment$ Glass: in accordance with EN 12150 $\,$ Backsheet: Highly resistant polymer Frame: Anodized aluminum (black) 4-part, 4 bypass diodes, lead-free Junction box: IP68 rated, in accordance with IEC 62790 Stäubli MC4 PV-KBT4/KST4 (12 AWG) Connectors: in accordance with IEC 62852, IP68 only when connected 12 AWG solar cable, 66.9 + 66.9 in Cable: in accordance with EN 50618 $68.0 \times 48.1 \times 1.2 \text{ in } (22.4 \text{ sq-ft})$ Dimensions:



	ELECTRICAL DATA	Product Code*: RECxxxAA Pure-RX			
	Power Output - P _{MAX} (Wp)	450	460	470	
	Watt Class Sorting - (W)	0/+10	0/+10	0/+10	
	Nominal Power Voltage - $V_{MPP}(V)$	54.3	54.9	55.4	
J	${\sf NominalPowerCurrent-I}_{\sf MPP}(A)$	8.29	8.38	8.49	
5	Open Circuit Voltage - $V_{OC}(V)$	65.1	65.3	65.6	
	$ShortCircuitCurrent\text{-}I_{SC}(A)$	8.81	8.88	8.95	
	Power Density (W/sq-ft)	20.1	20.5	21.0	
	Panel Efficiency (%)	21.6	22.1	22.6	
	Power Output - P _{MAX} (Wp)	343	350	358	
_	Nominal Power Voltage - $V_{MPP}(V)$	51.2	51.7	52.2	
2	${\sf NominalPowerCurrent-I_{MPP}}(A)$	6.70	6.77	6.86	
2	Open Circuit Voltage - $V_{oc}(V)$	61.3	61.6	61.8	
	$ShortCircuitCurrent\!-\!I_{SC}(A)$	7.11	7.17	7.23	
	\/_	ANALE :1000 W/	2 + 77°F /2F°C\\ L		

51.6 lbs

Made in Singapore

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², temperature 77°F (25°C)), based on a production spread with a tolerance of P_{MAX} , V_{OC} & 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_{MAX}) at STC above.

MAXIMUM RATINGS		
Operational temperature:	-40 +185°F	
System voltage:	1000 V	
Test load (front):	+7000 Pa (146.2 lbs/sq-ft)*	
Test load (rear):	-4000 Pa (83.5 lbs/sq-ft)*	
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%

The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See www.recgroup.com for more details

Avai	lab	le	fr	or	n:

Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers and the properties of the composition of the properties ofwith 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 61215:2021, IEC 61730:2016, UL 61730		
IEC 62804	PID	
IEC 61701	Salt Mist	
IEC 62716	Ammonia Resistance	
ISO 11925-2	Ignitability (EN 13501-1 Class E)	
IEC 62782	Dynamic Mechanical Load	
IEC 61215-2:2016	Hailstone (35mm)	
IEC 62321	Lead-free acc. to RoHS EU 863/2015	
UL 61730	Fire Type 2	
ISO 14001, ISO 9001	, IEC 45001, IEC 62941	









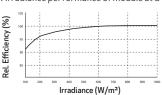


TEMPERATURE RATINGS*	
Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P_{MAX} :	-0.24 %/°K
Temperature coefficient of $V_{\rm OC}$:	-0.24 %/°K
Temperature coefficient of I _{SC} :	0.04 %/°K
*The temperature coefficients stat	ed are linear values

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 40 ft GP/high cube container:	594 (18 pallets)
Panels per 53 ft truck:	792 (24 pallets)

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



REC Solar PTE. LTD. 20 Tuas South Ave. 14 Singapore 637312 post@recgroup.com

