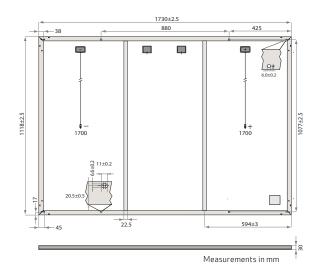




GENERAL DA	TA
Cell type:	80 half-cut REC heterojunction cells with lead-free, gapless technology
Glass:	$3.2\text{mm}\text{solar}\text{glass}\text{with}\text{anti-reflective}\text{surface}\text{treatment}\\\text{in}\text{accordance}\text{with}\text{EN}12150$
Backsheet:	Highly resistant polymer (black)
Frame:	Anodized aluminum (black)
Junction box:	4-part, 4 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790
Connectors:	$St\"{a}ubli\ MC4PV-KBT4/KST4\left(4mm^2\right)\\in\ accordance\ with\ IEC\ 62852,\ IP68\ only\ when\ connected$
Cable:	4 mm² solar cable, 1.7 + 1.7 m in accordance with EN 50618
Dimensions:	$1730 \times 1118 \times 30 \text{mm} (1.93 \text{m}^2)$
Weight:	21.5 kg
Origin:	Made in Singapore



ELECTRICAL DATA	Product Code*: RECxxxAA Pure-R		
Power Output - P _{MAX} (Wp)	410	420	430
Watt Class Sorting - (W)	0/+10	0/+10	0/+10
Nominal Power Voltage - V _{MPP} (V)	49.4	50.0	50.5
Nominal Power Current - I_{MPP} (A)	8.30	8.40	8.52
Open Circuit Voltage - $V_{oc}(V)$	59.2	59.4	59.7
Short Circuit Current - I_{SC} (A)	8.81	8.89	8.97
Power Density (W/m²)	212	218	223
Panel Efficiency (%)	21.2	21.8	22.3
Power Output - P _{MAX} (Wp)	312	320	327
Nominal Power Voltage - $V_{MPP}(V)$	46.6	47.1	47.6
Nominal Power Current - I_{MPP} (A)	6.70	6.78	6.88
Open Circuit Voltage - $V_{oc}(V)$	55.8	56.0	56.3
Short Circuit Current - I _{sc} (A)	7.12	7.18	7.24

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

MAXIMUM RATINGS	
Operational temperature:	-40+85°C
System voltage:	1000 V
Test load (front):	+7000 Pa (713 kg/m²)*
Test load (rear):	-4000 Pa (407 kg/m²)*
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%
See warranty docu	ments for d	etails. Cor	nditions apply

CERTIFICATIONS	(PENDING)
IEC 61215:2016, 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
ISO 14001, ISO 9001,	IEC 45001, IEC 62941











TEMPERATURE RATINGS*	
Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P_{MAX} :	-0.26 %/°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)

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:

