

9 A MODULE CURRENT COMPATIBLE WITH MLPE

430 20.7

WP
W
FT2

22.3% EFFICIENCY

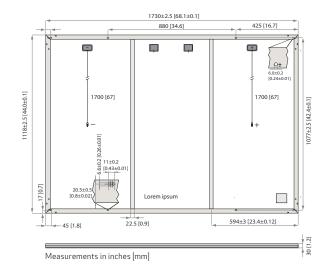








GENERAL DATA			
Cell type:	80 half-cut REC bifacial, heterojunction cells with lead-free, gapless technology		
Glass:	$0.13 in (3.2 mm) solar glass with anti-reflective surface treatment\\in accordance with EN12150$		
Backsheet:	Highly resistant polymer (black)		
Frame:	Anodized aluminum (black)		
Junction box:	4-part, 4 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790		
Connectors:	$St\"{a}ubliMC4PV\text{-}KBT4/KST4\{4mm^2\}$ 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		



	ELECTRICAL DATA	Product Code*: RE	oduct Code*: RECxxxAA PURE-R		
2	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
	Nominal Power Current - $I_{MPP}(A)$	8.20	8.30	8.40	8.52
	Open Circuit Voltage - $V_{OC}(V)$	58.9	59.2	59.4	59.7
	Short Circuit Current - $I_{SC}(A)$	8.73	8.81	8.89	8.97
	Power Density (W/ft²)	207	212	218	223
	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
	Nominal Power Current - $I_{MPP}(A)$	6.64	6.70	6.78	6.88
	Open Circuit Voltage - $V_{OC}(V)$	55.5	55.8	56.0	56.3
	$ShortCircuitCurrent\text{-}I_{SC}(A)$	7.05	7.12	7.18	7.24

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+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		

'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	ditions apply	

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, ISO 9001, IEC 45001, IEC 62941		









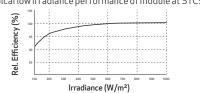
 Lead-Free		
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TEMPERATURE RATINGS*			
Nominal Module Operating Temperature:	44°C (±2°C)		
Temperature coefficient of P_{MAX} :	-0.26 %/°C		
Temperature coefficient of $V_{\rm oc}$:	-0.24 %/°C		
Temperature coefficient of I_{SC} :	0.04 %/°C		

*The temperature coefficients stated are linear values

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

LOW LIGHT BEHAVIOUR Typical low irradiance performance of module at STC:



Available from:



Specifications subject to change without notice.