

COMPATIBLE WITH MLPE

430 20.7 22.3% EFFICIENCY

WP







Ref: PM-DS-12-06-Rev- A 04.22

GENERAL DATA				
Celltype:	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:	$St\"{a}ubli\ MC4\ PV-KBT4/KST4\ (4\ mm^2)$ 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			

1730±2.5 [68.1±0.1]		
	880 [34.6]	425 [16.7]
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Measurements in inches	lmml	m

ELECTRICAL DATA	Product Code*:	Product Code*: RECxxxAA PURE-R		
Power Output - P _{MAX} (Wp)	410	420	430	
WattClassSorting-(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	
$ShortCircuitCurrent-I_{SC}(A)$	8.81	8.89	8.97	
Power Density (W/ft²)	19.7	20.2	20.7	
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	

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
*6	16

*See installation manual for mounting instruction
Design load = Test load / 1.5 (safety facto

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 (PENDING)		
IEC 61215:2016, IEC 6	1730:2016, 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 IF	FC 45001 IFC 62941	









TEMPERATURE RATINGS*	
NominalModuleOperatingTemperature:	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
*TI	Landers and the

The temperature coefficients stated are linear values

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 53 ft truck:	858 (26 pallets)



Typical low irradiance performance of module at STC:



