










PEACH TOPCon

DEF_P8A / 144 cells
 565 W - 590 W
 Mono-Crystalline Bifacial PV Module

United Renewable Energy Co., Ltd. (a company from Taiwan where the sun shines) PEACH TOPCon module uses URECO TOPCon monocrystalline bifacial solar cells, and URECO bifacial power generation module process.



Key Features

- | | | | |
|---|---|--|--|
|  | <p>Multi-Bus bar/ TLS technology
 Increase the stability of outdoor power generation</p> |  | <p>Better bifaciality
 High bifacial rate</p> |
|  | <p>PID resistance
 Excellent PID resistance performance</p> |  | <p>Excellent low light performance
 First year power degradation 1%
 Annual degradation 0.4% each year</p> |
|  | <p>Superior temperature coefficient
 Better performance in high temperature</p> |  | <p>Withstand heavy loading
 Equivalent to the Beaufort wind scale 17 validation</p> |
|  | <p>NO Water pollution concern
 PASS the water quality standard by E.P.A</p> |  | <p>High Durability
 High resistance to salt mist & PID design
 Pass the highest level
 (IEC 61701/ IEC 60068-2-52 Severity 8)</p> |



Electrical Data

Model		Bifacial Gain			Bifacial Gain			Bifacial Gain		
		DEF565P8A	5%	10%	DEF570P8A	5%	10%	DEF575P8A	5%	10%
Maximum Rating Power (Pmax)	[W]	565	593	622	570	599	627	575	604	633
Module Efficiency	[%]	21.87	22.96	24.06	22.07	23.17	24.28	22.26	23.37	24.49
Open Circuit Voltage (Voc)	[V]	50.87	50.87	50.87	51.06	51.06	51.06	51.24	51.24	51.24
Maximum Power Voltage	[V]	41.99	41.99	41.99	42.17	42.17	42.17	42.35	42.35	42.35
Short Circuit Current (Isc)	[A]	14.20	14.91	15.62	14.26	14.97	15.69	14.32	15.04	15.75
Maximum Power Current	[A]	13.45	14.12	14.80	13.51	14.19	14.86	13.57	14.25	14.93
Model		DEF580P8A	5%	10%	DEF585P8A	5%	10%	DEF590P8A	5%	10%
Maximum Rating Power (Pmax)	[W]	580	609	638	585	614	644	590	620	649
Module Efficiency	[%]	22.45	23.57	24.70	22.64	23.77	24.90	22.83	23.97	25.11
Open Circuit Voltage (Voc)	[V]	51.42	51.42	51.42	51.60	51.60	51.60	51.78	51.78	51.78
Maximum Power Voltage	[V]	42.53	42.53	42.53	42.71	42.71	42.71	42.88	42.88	42.88
Short Circuit Current (Isc)	[A]	14.38	15.10	15.82	14.44	15.16	15.88	14.50	15.23	15.95
Maximum Power Current	[A]	13.63	14.31	14.99	13.69	14.37	15.06	13.75	14.44	15.13
Positive Power Tolerance		0~3%								

*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5
 *Values without tolerance are typical numbers. Measurement tolerance: ±3%

Mechanical Data

Item	Specification
Dimensions	2278 mm (L) ¹ x 1134 mm (W) ¹ x 40 mm (D) ² / 89.69" (L) ¹ x 44.65" (W) ¹ x 1.58" (D) ²
Weight	27.50 kg / 60.63 lbs
Solar Cell	144 half-cut monocrystalline M10 N-type TOPCon cells
Front Glass	3.2mm AR-Coating, strengthened glass
Back Cover	Composite film, transparent
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cables	4.0mm ² (IEC), 12AWG (UL)
Connectors	EVO2A (1500V)
Package Configuration	26 pcs Per Pallet, 520 pcs per 40' HQ container

1 : With assembly tolerance of ± 2 mm [± 0.08"]
 2 : With assembly tolerance of ± 0.8 mm [± 0.03"]

Operating Conditions

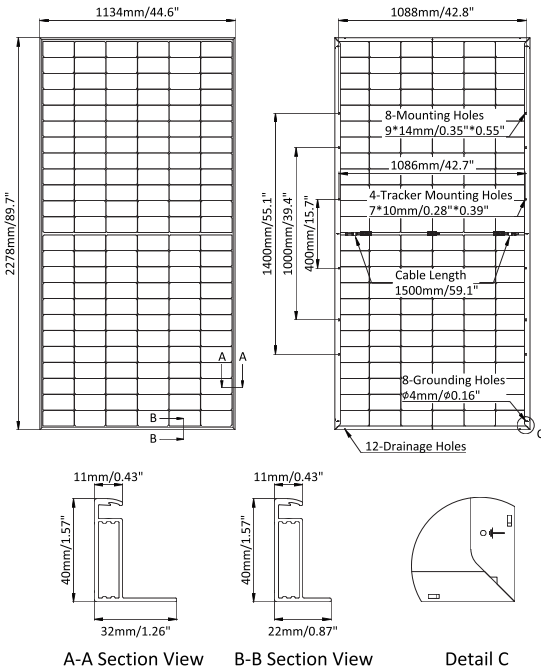
Item	Specification
Mechanical Load	6000 Pa
Maximum System Voltage	1500 VDC
Series Fuse Rating	25 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

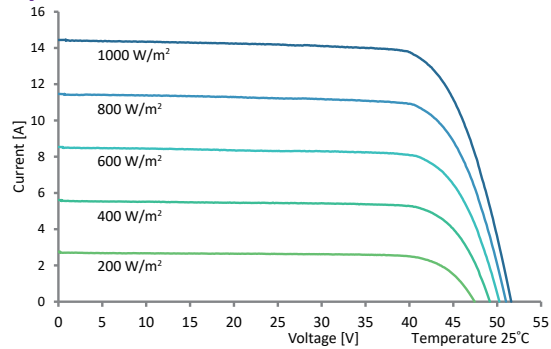
Item	Specification
Nominal Module Operating Temperature	43°C ± 2°C
Temperature Coefficient of Isc	0.05 % / °C
Temperature Coefficient of Voc	-0.25 % / °C
Temperature Coefficient of Pmax	-0.30 % / °C

*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.

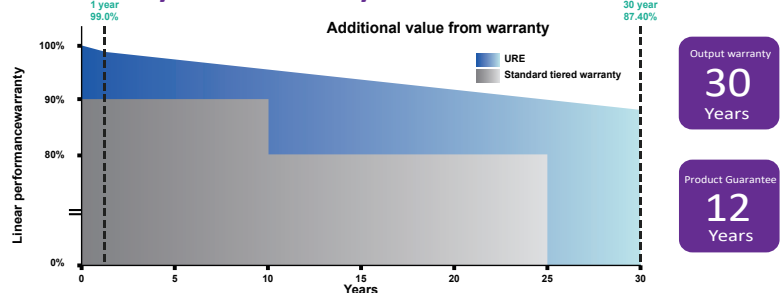
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



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