MONOFACIAL

RenewSys®
let there be light

DESERV®
SGALACTIC 120
430 WP - 455 WP

*Module image for representation purpose only

DESERV®

SAFE

- IP68 Junction box
- 10 years of product warranty
- 25 Years of power output warranty
- 1500 Vdc

RELIABLE

- Extreme weather resilience
- Windspeed - 2400 Pa, Snowload - 5400 Pa
- Highly reliable anti-reflective coated glass

HIGH PERFORMANCE

- PID resistant
- Superlative performance in low light
- High power density
- Positive power tolerance

World-class products, Made in India

- **Smart**: High module efficiency with 120X half-cut Mono crystalline PERC Solar Cells
- **Modern**: Processed on state-of the-art technology production lines
- **Dependable**: Use of highest quality raw materials coupled with rigorous in-house testing
- **Versatile**: Suitable for Utility, Rooftop, and other general applications

Certifications:

- IEC 61215: 2016 (430 Wp-440 Wp)
- IEC 61730: 2016 (430 Wp-440 Wp)
- IEC 61701: 2020 (430 Wp-440 Wp)
- IEC 62716 (430 Wp-440 Wp)
- IEC 60068-2-68 (430 Wp-440 Wp)
- CAN/CSA: 61730 (430 Wp-440 Wp)
- UL 61730 (430 Wp-440 Wp)
- IMS Certified Company - ISO 9001: 2015
- OHSAS 45001: 2018
- EMS - ISO 14001: 2015
- Listed in DEWA
- Independently audited by SOLARBUYER
- BIS Number R-71018970

RenewSys is the first integrated manufacturer of Solar PV Modules and its key components - Encapsulants (EVA and POE), Backsheets and Solar PV Cells. We have a global presence with offices in India, Mauritius, Nigeria, South Africa, Singapore, UAE, representatives in Europe, USA, Mexico, and an evolving distributor network.

Registered Office: Unit No. 607, 6th Floor, Trade Center, Bandra-Kurla Complex, Bandra East, Mumbai - 400 051, Maharashtra, India.

Factory: Plot No. E-141, Additional Patalganga MIDC Industrial Area, Village - Karade Khurd, Taluka Panvel, District Raigad - 410 206, Maharashtra, India.

Factory: Plot No.6, Survey # 114/P, Srinagar Village, Maheshwaram Mandal, Dist - Rangareddy, Hyderabad - 501 359, Telangana, India.

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DESERV®

Performance under standard test conditions (1000w/m², AM 1.5, 25 ºC)

DESERV SGalactic 120	430	435	440	445	450	455
Rated power (Pmax), Wp	430	435	440	445	450	455
Max. power voltage (Vmp), V	35.00	35.21	35.39	35.52	35.64	35.78
Max. power current (Imp), A	12.31	12.37	12.45	12.55	12.65	12.74
Open circuit voltage (Voc), V	41.16	41.20	41.37	41.60	41.85	42.10
Short circuit current (Isc), A	12.94	13.08	13.16	13.23	13.31	13.37
Module efficiency (%)	19.76	19.99	20.22	20.45	20.68	20.91

Test uncertainty for Pmax ± 3%

NOCT (Wp) at 45 ± 2 ºC @800 W/m²	430	435	440	445	450	445
Pmax (W)	320.02	323.74	327.46	331.18	334.90	338.63
Max. power voltage (Vmp), V	32.01	32.20	32.37	32.49	32.60	32.72
Max. power current (Imp), A	10.02	10.07	10.13	10.21	10.30	10.37
Open circuit voltage (Voc), V	38.27	38.31	38.47	38.68	38.91	39.15
Short circuit current (Isc), A	10.57	10.69	10.75	10.81	10.87	10.92

Mechanical Characteristics	
Cable	No. 12 AWG, 4mm², (300mm Standard)
PV Connectors	MC4 Compatible
Frame	Anodized Aluminum Alloy
Junction box	IP68 Split junction box with 3 bypass diodes
Glass	3.2mm Thick low iron tempered

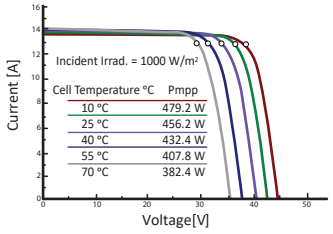
Operating Conditions	
Temperature, ºC	-40 to +85
Max. system voltage, Vdc	1500
Hail impact velocity, m/sec	23
Max. surface load capacity, Pa	5400
Max. wind speed capacity, Pa	2400
Series fuse rating, A	25

Physical Parameters	
No. of cells	120
Module dimension (mm)	1914 X 1137 (± 2)
Module thickness (mm)	35
Approximate weight (kg)	24

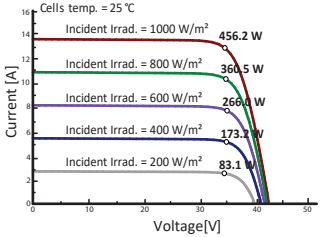
Cell Temperature Coefficient	Mono PERC
Open circuit voltage	-0.2597 % / ºC
Short circuit current	+0.0734 % / ºC
Peak power	-0.328 % / ºC

IV Curves

Cell temperature sensitivity chart

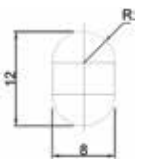


Incident irradiance sensitivity chart

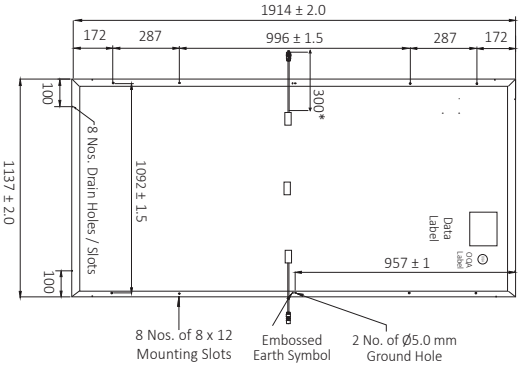


Frame Cross Section

Mounting Hole



Module Dimension Diagram (mm)



- Please refer to the installation manual for detailed information.

*Due to continuous product updation, specifications may change without notice. Kindly refer to the website for latest information: www.renewsysworld.com