

◀ MONOFACIAL ▶



# DESERV<sup>®</sup> SGALACTIC 144 520 WP - 545 WP



\*Module image for representation purpose only



## 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 144X half-cut Mono crystalline PERC Solar Cells
- **Modern:** Processed on state-of-the-art technology production lines
- **Dependable:** Use of highest quality raw material coupled with rigorous in-house testing
- **Versatile:** Suitable for Utility, Rooftop, and other general applications

IMS Certified Company - ISO 9001: 2015 | OHSAS 45001: 2018 | EMS - ISO 14001: 2015



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 Brazil, 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.

Performance under standard test conditions (1000w/m<sup>2</sup>, AM 1.5, 25 °C)

DESERV SGalactic 144	520	525	530	535	540	545
Rated power (Pmax), Wp	520	525	530	535	540	545
Max. power voltage (Vmp), V	41.16	41.34	41.49	41.68	41.84	41.98
Max. power current (Imp), A	12.65	12.72	12.79	12.85	12.92	12.99
Open circuit voltage (Voc), V	48.92	49.21	49.40	49.61	49.82	49.97
Short circuit current (Isc), A	13.39	13.46	13.53	13.61	13.68	13.74
Module efficiency (%)	20.02	20.22	20.41	20.60	20.79	20.99

Test uncertainty for Pmax ± 3%

NOCT (Wp) at 45 ± 2 °C @800 W/m <sup>2</sup>	520	525	530	535	540	545
Pmax (W)	387.00	390.72	394.44	398.16	401.88	405.61
Max. power voltage (Vmp), V	37.64	37.81	37.95	38.12	38.27	38.39
Max. power current (Imp), A	10.30	10.35	10.41	10.46	10.52	10.57
Open circuit voltage (Voc), V	45.49	45.76	45.93	46.13	46.32	46.46
Short circuit current (Isc), A	10.94	11.00	11.05	11.12	11.18	11.22

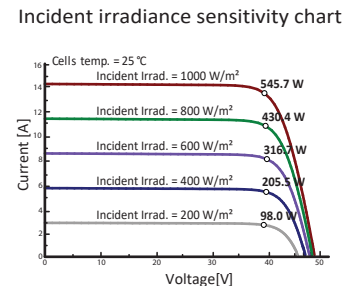
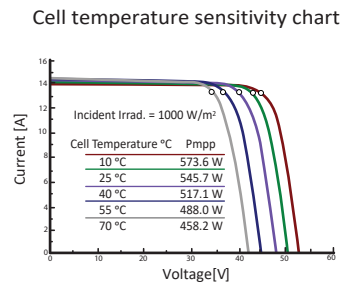
Mechanical Characteristics	
Cable	No. 12 AWG, 4mm <sup>2</sup> , (1.0m Standard)
PV Connectors	MC4 Compatible
Frame	Anodized Aluminum Alloy
Junction box	IP68 Split junction box with 3 bypass diodes
Glass	3.2mm Thick low iron tempered

Operating Conditions	
Temperature, °C	-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

Physical Parameters	
No. of cells	144
Module dimension (mm)	2284 X 1137 ( ± 2)
Module thickness (mm)	35
Approximate weight (kg)	28.7

Cell Temperature Coefficient	Mono PERC
Open circuit voltage	-0.2917 % / °C
Short circuit current	+0.045 % / °C
Peak power	-0.3845 % / °C

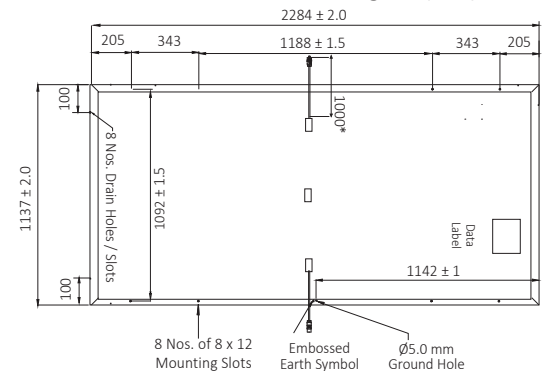
### IV Curves



### Frame Cross Section



### 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](http://www.renewsysworld.com)