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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**RenewSys India Private Limited**

**DESERV C144 340**

**DESERV C144 340**

Also available on the web at  
[EnergyPal.com/renewsys-india-private-limited-solar-panels/deserv-c144-340](http://EnergyPal.com/renewsys-india-private-limited-solar-panels/deserv-c144-340)

Multi Mono **Specialised**



\*Module images for representation purpose only

## Solar PV Module DESERV MGalactic and SGalactic

**MGalactic 144 Cells (Multi) : 340 Wp**

**SGalactic 144 Cells (Mono/Mono PERC) : 355 Wp - 390 Wp**





The ideal PV Module for all applications that use the highest quality of PV Cells, in-house Encapsulants, and Backsheets.

**MGalactic** is designed with high efficiency half-cut Multi Crystalline Silicon Cells.

**SGalactic** is designed with high efficiency half-cut Mono Crystalline Silicon Cells.






### SAFE

-  IP67 Junction box
-  10 years of product warranty
-  25 Years of limited power output warranty
-  1500 Vdc Certified (1000 Vdc Compatible)






### RELIABLE

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



### HIGH PERFORMANCE

-  PID resistant
-  Low light performance
-  High power density

### Ideal for:



Residential



Commercial



Utility



Off-grid

### Certifications:

- IEC Certified: 61215, 61730
- IEC TS 62804
- IEC : 61701
- IEC : 62716
- Independently audited by SOLARBUYER
- IMS Certified Company - ISO 9001: 2015 & OHSAS 18001: 2007
- EMS - ISO 14001: 2015
- BIS Number R - 63000760



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, China, representatives in Brazil, Europe, USA, Mexico, and an evolving distributor network.

### Registered Office

98, Jolly Maker Chambers No.2,  
225 Nariman Point,  
Mumbai - 400 021,  
Maharashtra, India

### Factory

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

- Please refer to the installation manual for detailed information.

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

|  | MGalactic  | 355        | 360        | SGalactic  | 380        | 385        | 390 |
|--|------------|------------|------------|------------|------------|------------|-----|
| <b>DESERV C144 (Wp)</b>                            | <b>340</b> | <b>355</b> | <b>360</b> | <b>380</b> | <b>385</b> | <b>390</b> |     |
| Rated power (Pmax), Wp                             | 340        | 355        | 360        | 380        | 385        | 390        |     |
| Max. power voltage (Vmp), V                        | 37.65      | 38.75      | 38.96      | 39.40      | 39.66      | 39.9       |     |
| Max. power current (Imp), A                        | 09.05      | 09.20      | 09.26      | 09.70      | 09.71      | 09.78      |     |
| Open circuit voltage (Voc), V                      | 45.80      | 45.85      | 46.16      | 46.70      | 48.29      | 48.36      |     |
| Short circuit current (Isc), A                     | 09.54      | 09.73      | 09.79      | 10.08      | 10.14      | 10.21      |     |
| Module efficiency (%)                              | 17.18      | 17.94      | 18.19      | 19.20      | 19.45      | 19.70      |     |
| <b>NOCT (Wp) at 45 ± 2 °C @800 W/m<sup>2</sup></b> | <b>340</b> | <b>355</b> | <b>360</b> | <b>380</b> | <b>385</b> | <b>390</b> |     |
| Pmax (W)   | 253.03     | 264.20     | 267.92     | 282.80     | 286.53     | 290.25     |     |
| Max. power voltage (Vmp), V                        | 34.43      | 35.43      | 35.63      | 36.03      | 36.27      | 36.49      |     |
| Max. power current (Imp), A                        | 07.36      | 07.48      | 7.54       | 07.89      | 07.90      | 07.96      |     |
| Open circuit voltage (Voc), V                      | 42.58      | 42.63      | 42.92      | 43.42      | 44.90      | 44.97      |     |
| Short circuit current (Isc), A                     | 07.79      | 07.94      | 8.00       | 08.23      | 08.28      | 08.34      |     |

| Mechanical Characteristics | MGalactic & SGalactic   |
|----------------------------|---|
| Cable                      | No. 12 AWG, 4mm <sup>2</sup> , (1.2m Standard)                        |
| PV Connectors              | MC4 Compatible (MC4/TYCO on request)                                  |
| Frame                      | Silver Anodized Aluminum Alloy  |
| Junction box               | IP67 Junction box with 4 rail/split junction box with 3 bypass diodes |
| Glass                      | 3.2mm Thick low iron tempered (4mm available on request)              |

| Operating Conditions           | MGalactic & SGalactic    |
|--------------------------------|--------------------------|
| Ambient temperature, °C        | -40 to +85               |
| Max. system voltage, Vdc       | Capability 1000 and 1500 |
| Hail impact velocity, m/sec    | 23                       |
| Max. surface load capacity, Pa | 5400                     |
| Max. wind speed capacity, Pa   | 2400                     |

| Physical Parameters     | MGalactic & SGalactic |
|-------------------------|-----------------------|
| No. of cells            | 144                   |
| Module dimension (mm)   | 1021 X 1938 (± 2)     |
| Module thickness (mm)   | 40 or 35              |
| Approximate weight (kg) | 21.5 or 21.2          |

| Cell Temperature Coefficient | 340 Wp        | 355 Wp - 360 Wp | 380 Wp - 390 Wp |
|------------------------------|---------------|-----------------|-----------------|
| Open circuit voltage         | -0.308 % / °C | -0.323 % / °C   | -0.28 % / °C    |
| Short circuit current        | +0.057 % / °C | +0.047 % / °C   | +0.048 % / °C   |
| Nominal power                | -0.406 % / °C | -0.414 % / °C   | -0.36 % / °C    |

| Packaging Configuration | MGalactic & SGalactic |
|-------------------------|-----------------------|
| No. of Modules/pallet   | 26 or 29              |

Module Dimension Diagram (mm) MGalactic & SGalactic

