



GREENBRILLIANCE RENEWABLE ENERGY LLP

1408 GIDC Estate, Waghodia, Vadodara, Gujarat-391760.

mkt1@gbreenergy.com jay.patel@gbreenergy.com www.gbreenergy.com www.epoxyhouse.com

144 CELL MONOCRYSTALLINE SOLAR MODULE

+91 9879614592

+91 8980811741

Series-530M8 | 535M8 | 540M8 | 545M8 | 550M8



KEY FEATURES



Superior Price Performance of half-cell without much cost addition.



Bypass Diodes and innovative interconnection for





Half cut cell reduces Hot spots.

APPLICAITONS

systems



Split junction box for better heat dissipation.

On-grid large scale utility systems

Off-grid residential systems

On-grid rooftop residential & commercial

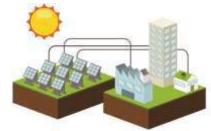
Dealer Stamp



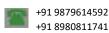
Reduced power loss.

QUALITY AND SAFETY

- 25 years of linear power output warranty**
- Rigorous quality control meeting the highest international standards
- 100% EL tested to ensure micro crack free modules
- Certified for PID resistance
- Certified for salt mist corrosion resistance



NEED MORE INFORMATION?



592 741



mkt1@gbreenergy.com jay.patel@gbreenergy.com



www.gbreenergy.com www.epoxyhouse.com





GREENBRILLIANCE RENEWABLE ENERGY LLP

1408 GIDC Estate, Waghodia, Vadodara, Gujarat-391760.

mkt1@gbreenergy.com jay.patel@gbreenergy.com www.gbreenergy.com www.epoxyhouse.com

GreenBrilliance is committed to providing high quality solar products and solar system solutions to customers worldwide.

+91 9879614592

+91 8980811741

Electrical Parameters at STC (AM 1.5, 1000 W/m², 25°C)

| Peak Power - Pmax (Wp) | 530 | 535 | 540 | 545 | 550 |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Voltage - Vmpp (V) | 41.28 | 41.51 | 41.7 | 41.92 | 42.11 |
| Maximum Current - Impp (A) | 12.84 | 12.89 | 12.95 | 13 | 13.06 |
| Open Circuit Voltage - Voc (V) | 49.61 | 49.87 | 49.95 | 50.04 | 50.28 |
| Short Circuit Voltage - Isc (A) | 13.66 | 13.72 | 13.78 | 13.84 | 13.90 |
| Module Efficiency - η (%) | 20.5 | 20.7 | 20.9 | 21.1 | 21.3 |

Electrical Parameters at NOCT (800 W/m², 20°C, wind speed 1 m/sec)

| | | | - | | |
|---------------------|--------|--------|--------|--------|--------|
| Power (Wp) | 407.16 | 411.01 | 414.85 | 418.69 | 422.53 |
| V at Pmax (V) | 37.62 | 37.83 | 38.01 | 38.21 | 38.39 |
| I at Pmax (A) | 10.82 | 10.86 | 10.91 | 10.96 | 11.01 |
| V _{oc} (V) | 45.8 | 46.04 | 46.12 | 46.2 | 46.42 |
| I _{sc} (A) | 11.58 | 11.63 | 11.68 | 11.73 | 11.78 |

Temperature Co-efficient (T_c) & Permissible Operating Conditions

| T_c of Open Circuit Voltage ($\beta)$ | - 0.266 %/°C |
|--|-----------------|
| T_c of Short Circuit Current ($\alpha)$ | 0.046 %/°C |
| T_c of Power (Ÿ) | - 0.354 %/°C |
| Maximum System Voltage | 1500 V |
| NOCT | 45 +/- 2°C |
| Temperature Range | - 40°C to +85°C |

Mechanical Data

| oass diodes 10mm length |
|------------------------------------|
| |
| 0mm length |
| |
| |
| mission low iron tempered AR glass |
| crystalline solar cell (24 x 6) |
| ene Vinyl Acetate) |
| film |
| AL Frame (6065-T5) |
| |
| upto 5400Pa/ Wind load upto 2400Pa |
| |

| Container | 40'HC |
|--------------------|-------|
| Pieces / Container | 620 |

Warranty and Certifications

| Product Warranty** | 10 years |
|------------------------------|--|
| Performance Warranty** | Linear power warranty for 25 years with 2.5% for 1st |
| | 1st year degradation and 0.75% from year 2 to year 25. |
| Approvals and Certifications | IEC 61215-2016*, IEC 61730-1&2*, IEC 61701*, |
| | IEC 62804*, IEC 62716*, UL-1703*, CE* |

** Refer to GreenBrilliance warranty document for terms and conditions. *All(*) certification under progress.

Caution: Read Safety and Installation Manual before using the product.

Specification included in this datasheet are subject to change without notice. Electrical data without guarantee.

Please confirm your exact requirement with company representative while placing your order.

