

IS 14286 : 2010/IEC 61215 : 2005,  
IS/IEC 61730 (PART 1) : 2004 &  
IS/IEC 61730 (PART 2) : 2004



R-72012360

# onix

## P-TYPE 10BB 530 Wp - 550 Wp

BIFACIAL (GLASS TO GLASS)



**30**  
YEARS



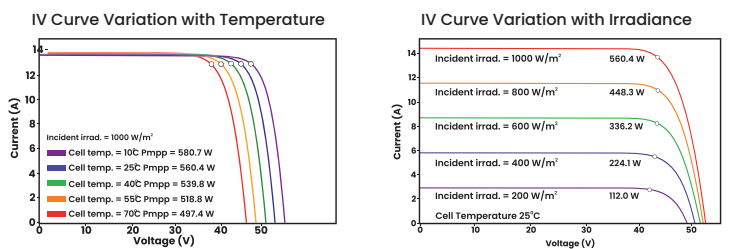
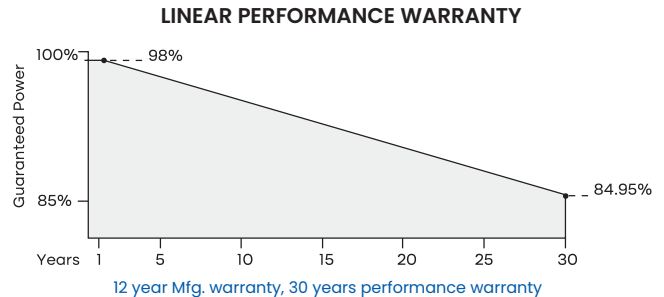
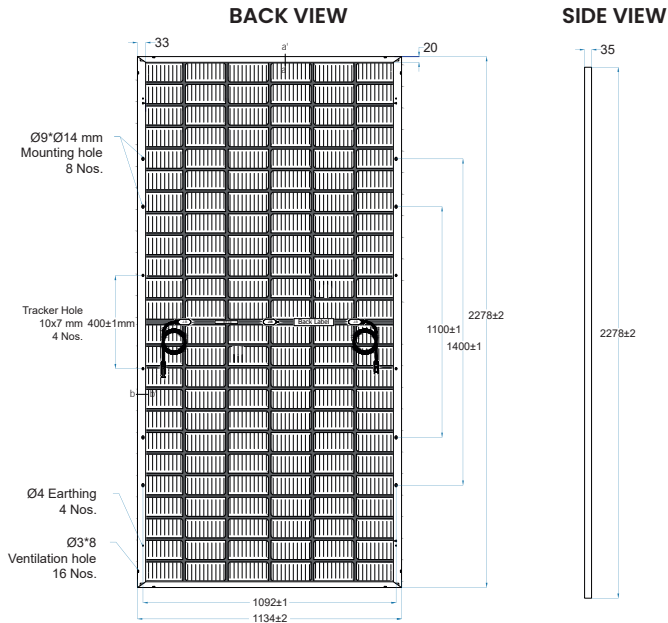
Warranty  
for Linear  
Performance\*

**12**  
YEARS



Product Warranty  
on Materials and  
Workmanship\*

| ELECTRICAL CHARACTERISTICS*        | OTRPLM10B144-530 |       | OTRPLM10B144-535 |       | OTRPLM10B144-540 |       | OTRPLM10B144-545 |       | OTRPLM10B144-545 |       | OTRPLM10B144-555 |       | OTRPLM10B144-555 |       |
|------------------------------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|                                    | STC              | NMOT  | STC              | NMOT  | STC              | NMOT  | STC              | NMOT  | STC              | NMOT  | STC              | NMOT  | STC              | NMOT  |
| Nominal Maximum Power - Pmax(Wp)   | 530              | 395   | 535              | 398   | 540              | 402   | 545              | 406   | 550              | 410   | 555              | 413   | 560              | 417   |
| Optimum Operating Voltage - Vmp(V) | 41.55            | 38.34 | 41.68            | 38.46 | 41.81            | 38.58 | 41.94            | 38.70 | 42.07            | 38.82 | 42.20            | 38.94 | 42.33            | 39.06 |
| Optimum Operating Current - Imp(A) | 12.76            | 10.29 | 12.84            | 10.36 | 12.92            | 10.42 | 13.00            | 10.49 | 13.08            | 10.55 | 13.16            | 10.62 | 13.24            | 10.68 |
| Open Circuit Voltage - Voc(V)      | 49.46            | 45.64 | 49.59            | 45.76 | 49.72            | 45.88 | 49.85            | 46.00 | 49.98            | 46.12 | 50.11            | 46.24 | 50.24            | 46.36 |
| Short Circuit Current - Isc(A)     | 13.44            | 10.86 | 13.52            | 10.92 | 13.60            | 10.98 | 13.68            | 11.05 | 13.76            | 11.11 | 13.84            | 11.18 | 13.92            | 11.24 |
| Module Efficiency (%)              | 20.52%           |       | 20.72%           |       | 20.91%           |       | 21.11%           |       | 21.30%           |       | 21.50%           |       | 21.70%           |       |



IV Curves for Front-Side Illumination of 560 Wp Panel

**BIFACIAL OUTPUT - BACKSIDE POWER GAIN @ STC\* [BIFACIALITY FACTOR: 70% ± 10%]**

[Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)]

|     | Capacity Rating - Pmax(Wp) | Bifaciality Factor: 70% ± 10% |     |     |     |     |     |    |    |
|-----|----------------------------|-------------------------------|-----|-----|-----|-----|-----|----|----|
|     |                            | 5%                            | 5%  | 5%  | 5%  | 5%  | 5%  | 5% | 5% |
| 5%  | 557                        | 562                           | 567 | 572 | 578 | 583 | 588 |    |    |
| 10% | 583                        | 589                           | 594 | 600 | 605 | 611 | 616 |    |    |

**MECHANICAL SPECIFICATIONS**

- Dimensions: 2278(L) x 1134(W) x 35(T)
- Weight(kg): 28kg
- Cell type / No of Cell: 144 Half-cut P-type MONO PERC Bifacial Solar cells
- Frame: Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
- Front Cover: Low Iron semi-Tempered AR coated Glass (2 mm thick)
- Encapsulate: PID Resistant and UV Resistant Polymeric Film
- Back Cover: 2 mm low Iron Semi Tempered Glass
- Junction Box: 25A Split Junction Box (3 nos. with Individual Bypass Diode) – Weatherproof (IP68)
- Bypass Diode: 60 A, 45 V, 200 °c max. Junction Temperature
- Cable: 4 sq. mm, 300 mm length (Customised Cable Length available on Request)
- Connectors: Mc4 Type
- Application Class Rating: Class A
- Safety Class Rating: Class II
- Mechanical Load Test: 5400 Pa-Front; 2400 Pa-Back (as per IEC & UL)

**MAXIMUM OPERATING CONDITIONS**

- Operating Temperature: -40°C to +85°C
- Maximum System Voltage: 1500V
- Maximum Series Fuse Rating: 25 A

**TEMPERATURE COEFFICIENTS**

- Current α (Isc): 0.0482%/°C
- Voltage β (Voc): -0.2917%/°C
- Power γ (Pmax): -0.3425%/°C

**PACKING STANDARD**

|                                   | 19FT                   | 20FT | 40FT |
|-----------------------------------|------------------------|------|------|
| No. of Modules per Container      | 248                    | 310  | 682  |
| No. of Pallets per Container      | 08                     | 10   | 22   |
| No. of Modules per Pallet/Weight: | 31 Nos./868 Kg         |      |      |
| Pallet Dimensions in mm:          | 2290(L)*1105(W)*142(H) |      |      |

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 - +4.99 W. Power measurement uncertainty: < ±3% Average value of NOCT: 45.00 ± 2 °C]

Caution: Please read safety and installation instructions before using the product. \*Warranty. Linear performance warranty for 30 years, with degradation up to 1% in 1st year and 0.4%/year from year 2 to year 30. Please read ONIX warranty documents thoroughly. Disclaimer: Specifications included in the datasheet are subject to change without prior notice owing to continuous innovation in the Product Development and R&D Activities. ONIX-TECH RENEWABLE PVT. LTD. reserves the right to make any adjustment to the information described here.

Dataset contained in this specification do not form a representative of a single module data. @T&C Apply.