onix

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

R-72012360

P-TYPE 10BB
530 Wp - 550 Wp

MONOFACIAL (GLASS TO TRANSPARENT BACKSHEET)

30 YEARS ✔ **Warranty for Linear Performance***

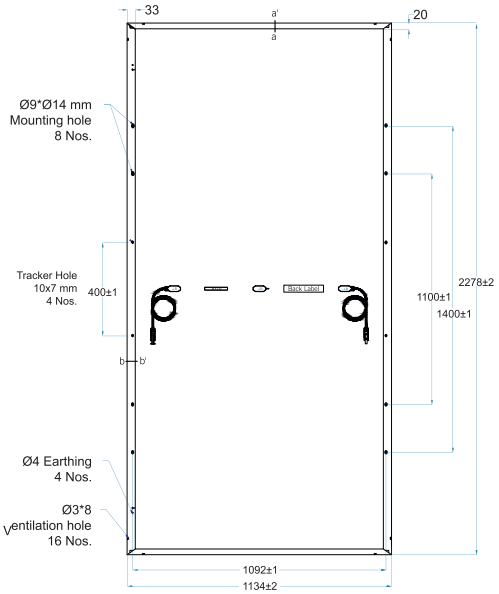
12 YEARS ✔ **Product Warranty on Materials and Workmanship***

TECHNICAL DATA

ELECTRICAL CHARACTERISTICS*	OTRPLM10-500	OTRPLM10-505	OTRPLM10-510	OTRPLM10-515	OTRPLM10-520	OTRPLM10-525	OTRPLM10-530	OTRPLM10-535	OTRPLM10-540	OTRPLM10-545	OTRPLM10-550
	STC	STC	STC	STC	STC	STC	STC	STC	STC	STC	STC
Nominal Maximum Power - Pmax(Wp)	500	505	510	515	520	525	530	535	540	545	550
Optimum Operating Voltage- Vmp(V dc)	42.10	42.15	42.20	42.25	42.30	42.35	42.40	42.48	42.50	42.55	42.61
Optimum Operating Current- Imp(A)	11.90	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.75	12.85	12.93
Open Circuit Voltage- Voc	48.96	49.01	49.06	49.10	49.16	49.19	49.22	49.26	49.28	49.33	49.37
Short Ciruit Current- Isc(A)	13.15	13.20	13.25	13.30	13.35	13.40	13.45	13.50	13.65	13.80	13.90
Module Efficiency (%)	19.39%	19.58%	19.77%	19.95%	20.14%	20.33%	20.52%	20.72%	20.98%	21.17%	21.33%

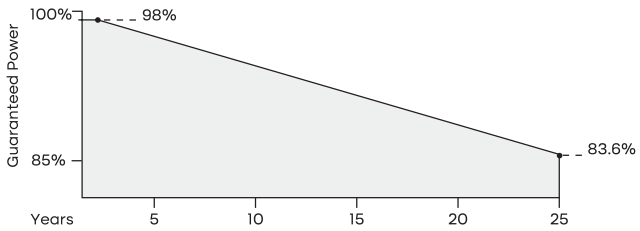
ELECTRICAL CHARACTERISTICS*	OTRPLM10-500	OTRPLM10-505	OTRPLM10-510	OTRPLM10-515	OTRPLM10-520	OTRPLM10-525	OTRPLM10-530	OTRPLM10-535	OTRPLM10-540	OTRPLM10-545	OTRPLM10-550
	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT
Nominal Maximum Power - Pmax(Wp)	374	378	382	385	389	392	396	400	405	409	412
Optimum Operating Voltage- Vmp(V dc)	39.10	39.14	39.19	39.24	39.28	39.33	39.37	39.45	39.47	39.51	39.57
Optimum Operating Current- Imp(A)	9.58	9.66	9.74	9.82	9.90	9.98	10.06	10.14	10.26	10.34	10.41
Open Circuit Voltage- Voc	45.47	45.51	45.56	45.60	45.65	45.68	45.71	45.75	45.76	45.81	45.85
Short Ciruit Current- Isc(A)	10.58	10.62	10.66	10.70	10.74	10.78	10.82	10.86	10.99	11.11	11.19

BACK VIEW



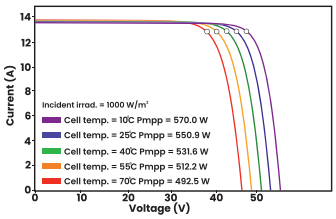
SIDE VIEW

LINEAR PERFORMANCE WARRANTY

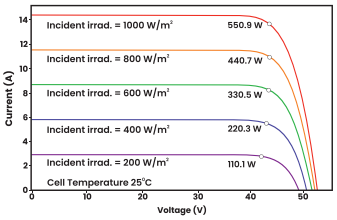


12 Year Mfg. Warranty, 25 Years Performance Warranty

IV Curve Variation with Temperature



IV Curve Variation with Irradiance



IV Curves for Front-Side Illumination of 550 Wp Panel

MECHANICAL SPECIFICATIONS

Dimensions	: 2278(L) x 1134(W) x 35(T)
Weight(kg)	: 28kg
Cell Type / No of Cell	: 144 Half-cut P-type PERC Solar cells
Frame	: Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	: Low Iron semi-Tempered AR coated Glass (3.2 mm thick)
Encapsulate	: PID resistant and UV resistant Polymeric Film
Back Cover	: PET/PVDF base UV Protected Transparent Backsheet
Junction Box	: 25A Split Junction Box (3 nos. with individual Bypass Diode) — Weatherproof (IP68)
Bypass Diode	: 50A, 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)	0.030%/Ċ
Voltage β (Voc)	-0.262%/Ċ
Power ϒ (Pmax)	-0.334%/Ċ

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: Specifcations 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.

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