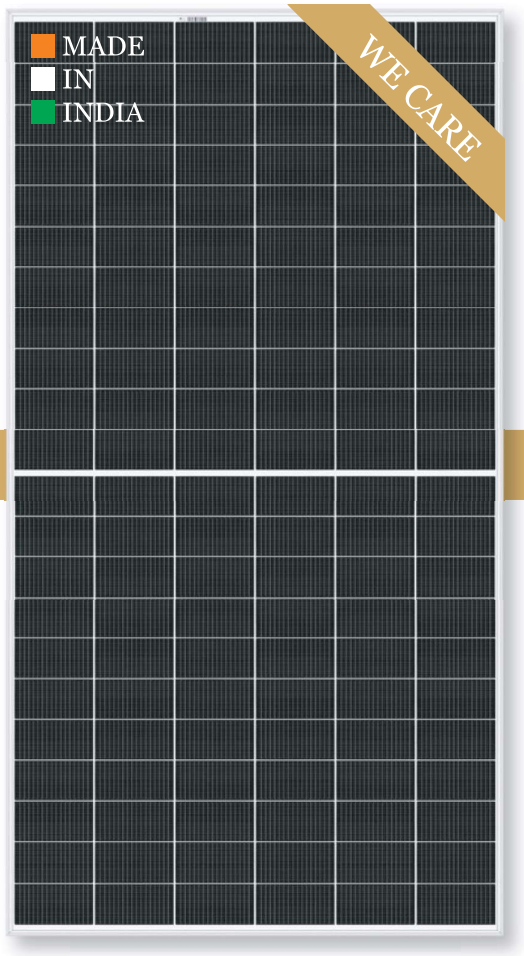


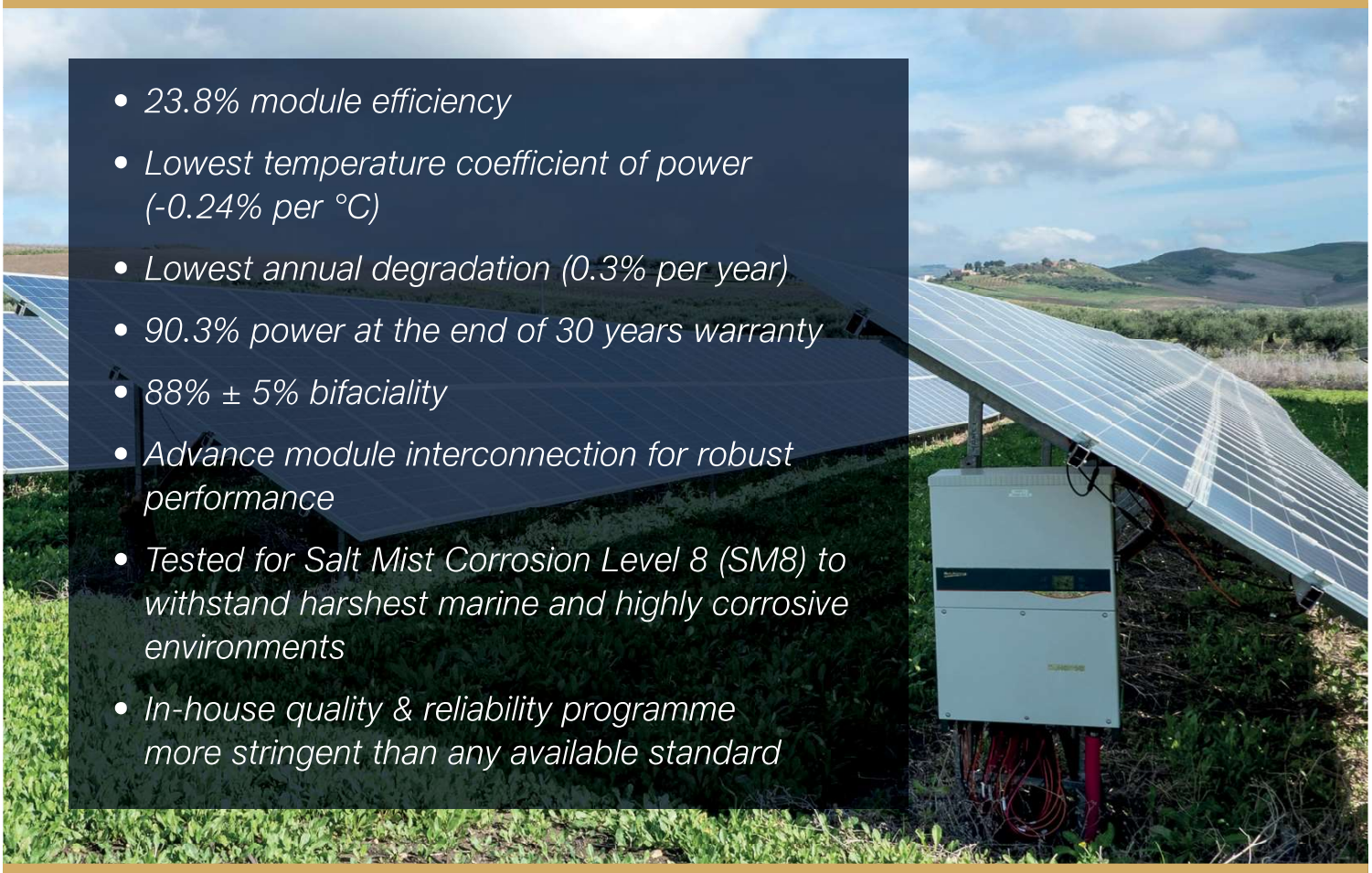
Reliance
Industries Limited
Growth is Life

RNE Pro-L Series

710-740 Wp

132 half-cut G12
Silicon Heterojunction (HJT)
solar cells bring you...

Best-in-class module for your MW & GW-scale power plants

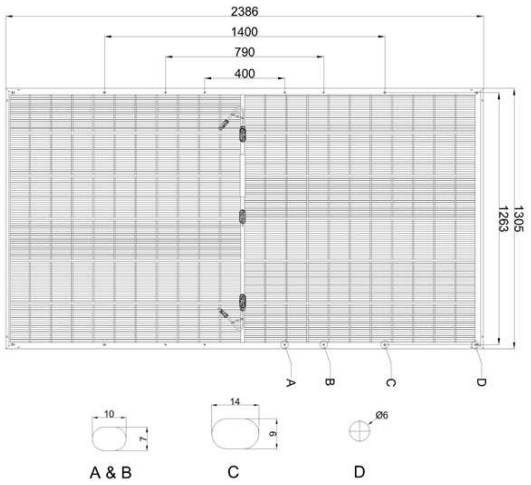


- *23.8% module efficiency*
- *Lowest temperature coefficient of power (-0.24% per °C)*
- *Lowest annual degradation (0.3% per year)*
- *90.3% power at the end of 30 years warranty*
- *88% ± 5% bifaciality*
- *Advance module interconnection for robust performance*
- *Tested for Salt Mist Corrosion Level 8 (SM8) to withstand harshest marine and highly corrosive environments*
- *In-house quality & reliability programme more stringent than any available standard*

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GENERAL PARAMETERS

Cell Type	: 132 half-cut bifacial heterojunction cells
Bifaciality	: 88% ± 5%
Glass	: Front: 2.0 mm solar glass with high-transmission anti-reflective coating Rear: 2.0 mm solar glass with White grid
Frame	: Anodized Aluminum
Junction Box	: 3-part, 3 bypass diodes, IP68 rated in accordance with IEC 62790
Connector	: PV-JM608 / DS01 / TL-CABLE01 Pro (4 mm^2) in accordance with IEC 62852, IP68 only when connected
Cable	: 4mm^2 solar cable, 0.3 m + 0.3 m in accordance with EN50618
Dimension	: 2386 x 1305 x 30 mm (3.11 m^2)
Weight	: 37.6 kg
Origin	: Made in India



ELECTRICAL DATA @ STC [1]

Product Code*: RNExxxAA-66-BGG							
Maximum Power - P_{MAX} Wp	710	715	720	725	730	735	740
Watt Class Sorting – (W)	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Maximum Power Voltage – V_{MPP} (V)	41.5	41.5	41.6	41.6	41.7	41.7	41.8
Maximum Power Current – I_{MPP} (A)	17.11	17.23	17.31	17.43	17.53	17.63	17.72
Open Circuit Voltage – V_{OC} (V)	49.5	49.5	49.60	49.60	49.7	49.7	49.8
Short Circuit Current – I_{SC} (A)	17.91	18.00	18.10	18.22	18.32	18.43	18.54
Module Efficiency (%)	22.8%	23.0%	23.1%	23.3%	23.4%	23.6%	23.8%

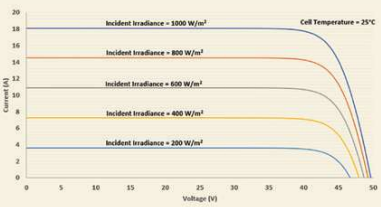
ELECTRICAL DATA @ NMOT [2]

Product Code*: RNExxxAA-66-BGG							
Maximum Power – P_{MAX} Wp	540	544	548	552	556	559	563
Maximum Power Voltage – V_{MPP} (V)	39.1	39.1	39.2	39.2	39.3	39.3	39.3
Maximum Power Current – I_{MPP} (A)	13.82	13.92	13.98	14.08	14.16	14.24	14.32
Open Circuit Voltage – V_{OC} (V)	46.6	46.6	46.7	46.7	46.8	46.8	46.9
Short Circuit Current – I_{SC} (A)	14.47	14.54	14.62	14.72	14.80	14.89	14.97

BNPI [3] / BSI @ STC [4]

BNPI P_{MPP} (+/-3%) (Wp)	792.1	797.8	803.4	809	816	820	826
BNPI V_{OC} (+/-3%) (V)	49.7	49.8	49.8	49.8	49.9	49.9	50.0
BNPI I_{SC} (+/-3%) (A)	19.99	20.10	20.20	20.33	20.45	20.57	20.69
BSI I_{SC} (+/-3%) (A)	22.53	22.64	22.77	22.92	23.05	23.18	23.32

LOW LIGHT BEHAVIOUR (Typical)



WARRANTY [5]

Product Warranty	15 Years
Performance Warranty	30 Years
Min. Power during 1st Year	99%
Max. Annual degradation (after 1st Year)	0.3% per Year
Min. Power at end of 30 Years	90.3%

OPERATING PARAMETERS [5]

Operational Temperature	T98 ≤ 70°C
Min. Operating Temperature	-40°C
Max. System Voltage	1500 V_{DC}
Max. Test Load[6] (Front)	+5400 Pa
Max. Test Load[6] (Rear)	-2400 Pa
Max. Fuse Rating	35 A
Max. Reverse Current	35A

CERTIFICATIONS [8]

IS 14286:2010; IS/IEC 61730:2004	
IEC 61215:2021; IEC 61730:2023; UL 61730	
ISO 11925-2	Ignitability (EN 13501-1 Class E)
IEC 62716:2013	Ammonia Resistance
IEC 61701:2020	Salt Mist (SM6)
IEC 61215:2021	Hailstone (35 mm)
UL 61730	Fire Type 29
Safety Class	Class II
ISO 14001; ISO 9001; ISO 45001 [9]	

TEMPERATURE RATINGS [7]

Nominal Module Operating Temperature	44 °C ± 2°C
Temperature Coeff. of P_{MAX}	-0.24 %/ °C
Temperature Coeff. of V_{OC}	-0.23 %/ °C
Temperature Coeff. of I_{SC}	+0.04 %/ °C

PACKAGING INFORMATION

Modules per Pallet	35
Modules per 40-ft (HQ) Container	630 (18 Pallets)

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

R-72011452
www.bis.gov.in

Intertek

ALMM
Approved List of Models and Manufacturers

Reliance Industries Limited
Growth is Life

Navagam via Khodiyar Colony, 1
P. O. - Navagam/ Kanachhikari
GSFC Reliance Complex
Jamnagar 361 006, Gujarat, INDIA
Phone: +91 22 3555 5000
Email: Reliance.Newenergy@ril.com

(1) STC - Air Mass AM1.5 according to EN 60904-3 , Irradiance 1000 W/m^2, Cell Temperature 25°C. (2) NMOT - Irradiance 800 W/m^2, Ambient Temperature 20°C, Wind Speed 1m/s. (3) BNPI P_{MPP} is determined when the module is subjected to BNPI irradiance, corresponding to 1000 W/m^2 on the module front and 135 W/m^2 on the module rear. (4) Bifacial Stress Irradiance (BSI Isc) is determined when the module is subjected to irradiance, corresponding to 1000 W/m^2 on the module front and 300 W/m^2 on the module rear.(5) T98 stands for 98 percentile operating temperature. Please refer to Installation Manual for mounting and operational instructions. (6) Design Load = Test Load / 1.5 (Safety Factor). (7) Indicated Temperature Coefficients are linear values over operational conditions. (8) IS 14286:2010 IS/IEC 61730:2004 received. ALMM received till 720 Wp and IEC certification received till 725 Wp. (9) In Progress.

*Where xxx indicates the nominal power class(P_{MAX}) at STC above.

IMPORTANT: The specifications in this datasheet are subject to modifications over time without any notice. Please contact RIL for the latest datasheet.

Ref: iRIL-MxRD-DTS-GE-001-Rev07