

MADE
IN
INDIA

WE CARE



Reliance

Industries Limited

Growth is Life

RNE Pro-L Series

690–720 Wp

132 half-cut G12

25.5% efficient

Silicon Heterojunction (HJT)

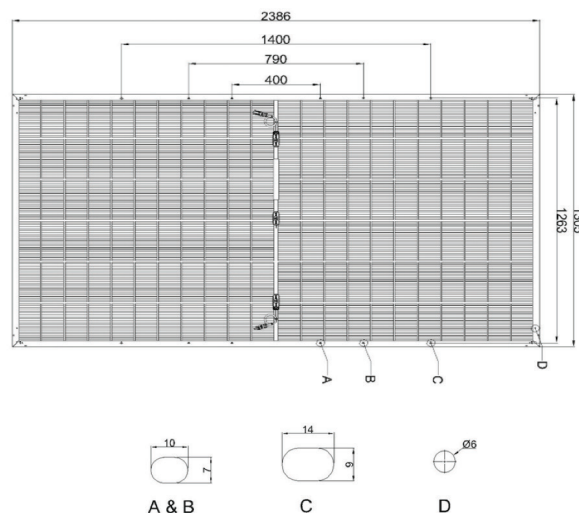
solar cells bring you...

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

- 23.1% module efficiency
- Lowest temperature coefficient of power (-0.24% per °C)
- Lowest annual deration (0.3% per year)
- 90.3% power at the end of 30 years warranty
- 86% $\pm$ 5% bifaciality
- Advance module interconnection for robust performance
- In-house quality & reliability programme more stringent than any available standard

GENERAL PARAMETERS

Cell Type	: 132 half-cut bifacial heterojunction cells
Bifaciality	: (86% ± 5%)
Glass	: Front 2 mm solar glass with HTAR/ AR coating Rear 2 mm solar glass with white grid
Frame	: Anodized Aluminum/ Non-conductive frames
Junction Box	: 3-part, 3 bypass diodes, lead-free, IP68 rated In accordance with IEC 62790:2020
Connector	: MC4 compatible (4 mm ²) in accordance with IEC 62852:2014, IP68 only when connected
Cable	: 4mm ² solar cable, 0.3 m + 0.3 m length in accordance with EN50618:2014
Dimension	: 2,386 mm x 1,305 mm x 30 mm
Weight	: 38.3 kg
Origin	: Made in India

ELECTRICAL DATA @ STC ¹

Product Code*: RNExxxAA-66-BGG

Maximum Power - P _{MAX} Wp	690	695	700	705	710	715	720
Watt Class Sorting – (W)	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Maximum Power Voltage – V _{MPP} (V)	41.3	41.3	41.4	41.4	41.5	41.5	41.6
Maximum Power Current – I _{MPP} (A)	16.71	16.83	16.91	17.03	17.11	17.23	17.31
Open Circuit Voltage – V _{OC} (V)	49.3	49.3	49.4	49.4	49.5	49.5	49.6
Short Circuit Current – I _{SC} (A)	17.53	17.62	17.72	17.81	17.91	18.00	18.10
Module Efficiency (%)	22.2%	22.3%	22.5%	22.6%	22.8%	23.0%	23.1%

ELECTRICAL DATA @ NOCT ²

Product Code*: RNExxxAA-66-BGG

Maximum Power – P _{MAX} Wp	525	529	533	537	540	544	548
Maximum Power Voltage – V _{MPP} (V)	38.9	38.9	39.0	39.0	39.1	39.1	39.2
Maximum Power Current – I _{MPP} (A)	13.50	13.59	13.66	13.75	13.82	13.92	13.98
Open Circuit Voltage – V _{OC} (V)	46.5	46.5	46.6	46.6	46.6	46.6	46.7
Short Circuit Current – I _{SC} (A)	14.16	14.23	14.31	14.38	14.47	14.54	14.62

REAR SIDE POWER GAIN ³

10% Power Output – P _{MAX}	759	765	770	776	781	787	792
20% Power Output – P _{MAX}	828	834	840	846	852	858	864
30% Power Output – P _{MAX}	897	904	910	917	923	930	936

OPERATING PARAMETERS ⁴

Operational Temperature	-40°C to +85°C
Max. System Voltage	1500 V _{DC}
Max. Test Load ⁵ (Front)	+2400 Pa
Max. Test Load ⁵ (Rear)	-2400 Pa
Max. Fuse Rating	35 A
Max. Reverse Current	35A

TEMPERATURE RATINGS ⁶

Nominal Module Operating Temperature	44 °C ± 2°C
Temperature Coeff. of P _{MAX}	-0.24 %/°C
Temperature Coeff. of V _{OC}	-0.24 %/°C
Temperature Coeff. of I _{SC}	+0.04 %/°C

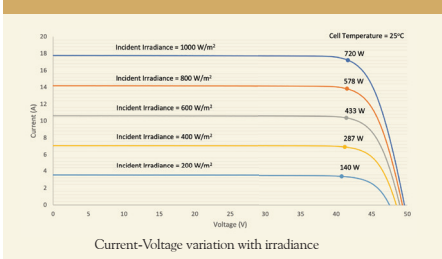
CERTIFICATIONS ⁷

IS 14286:2010	IS/IEC 61730:2004
IEC 61215:2021	IEC 61730:2016
ISO 11925-2	Ignitability (EN 13501-1 Class E)
IEC 62716:2013	Ammonia Resistance
IEC 61701:2011	Salt Mist (SM6)
IEC 61215:2016	Hailstone (35 mm)
UL 61730	Fire Type 2
Safety Class	Class II
ISO 14001; ISO 9001; ISO 45001	

PACKAGING INFORMATION

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

LOW LIGHT BEHAVIOUR

WARRANTY ⁴

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

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



*In progress



Navagam via Khodiyar Colony, 1
P.O. - Navagam/ Kanachhikari
GSFC Reliance Complex
Jamnagar 361 006, GJ 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/m², Cell Temperature 25°C. (2) NOCT - Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s. (3) Rear-Side Power Gain: The additional gain from the rear-side compared to the power of the front-side at STC. This depends on several factors including but not limited to mounting (structure design, height, tilt angle, etc.), ambient irradiance, albedo of the ground, and so on, which should be carefully considered by the PV power plant designer. (4) Please refer to Installation Manual for mounting and operational instructions. (5) Design Load = Test Load / 1.5 (Safety Factor). (6) Indicated Temperature Coefficients are linear values over operational conditions. (7) IS 14286:2010 IS/IEC 61730:2004 received. All other certifications are 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.