

RITA Series G12R



SUSTAINABILITY IN EVERY WATT



HIGH PERFORMANCE

- Lowlight Performer
- Low Degradation
- High power density
- Positive power tolerance

RELIABILITY

- Anti-reflective coated glass
- 12 years Product Warranty
- 30 years Performance Warranty
- Windspeed - 2400 Pa
- Snowload - 5400 Pa

SAFETY

- IP68 Junction box
- Crack Tolerant
- Max. system voltage, 1500 Vdc

N-TYPE TOPCON BIFACIAL GLASS TO GLASS MODULE 600-625W_p

World-Class Solar Solutions – Made in India

Smart Efficiency – High-performance 132X half-cut Mono Crystalline TopCon Bi-Facial Solar Cells for superior energy output.

State-of-the-Art Technology – Manufactured using advanced production lines for precision and excellence.

Unmatched Reliability – Built with the highest quality materials and subjected to rigorous in-house testing.

Versatile Applications – Ideal for utility-scale projects, rooftop installations, and various other applications.

Vision

Krivi Energy pioneers solar innovation, manufacturing high-quality PV modules and offering end-to-end EPC solutions. Our vision is to establish a 2.5 GW integrated solar facility, setting new benchmarks in quality, reliability, and sustainability.

Certifications



Registered Office: Dipti Square, 112, Subhash Rd, Subhash Nagar, Jogeshwari East, Mumbai, Maharashtra 400060
Contact: 1800-268-2244 (Toll Free) / +91-22-3185-6336
solar@krivienergy.com

Factory Address: Krivi Energy Pvt Ltd Survey no.578/A/Paiki 1. Plot No.12, Moje Kotambi, Krishna Industrial Park 03, Waghodia Vadodara - 391510.
Contact: 1800-268-2244 (Toll Free)

www.KriviEnergy.com

N-TYPE TOPCON BIFACIAL GLASS TO GLASS MODULE

600-625 Wp

TECHNICAL SPECIFICATIONS

At STC: 1000 W/m², 25°C (STC in accordance with IEC 60904)

Type/Model		KRN600BG12R	KRN605BG12R	KRN610BG12R	KRN615BG12R	KRN620BG12R	KRN625BG12R
Max Rated Power, (Pm)	[Wp]	600	605	610	615	620	625
Maximum Power Voltage, (Vmp)	[V]	40.99	41.25	41.51	41.77	42.03	42.09
Open Circuit Voltage, (Voc)	[V]	47.25	47.45	47.65	47.85	48.05	48.25
Short Circuit Current, (Isc)	[A]	15.92	15.953	15.98	16.01	16.03	16.06
Maximum Power Current, (Imp)	[A]	15.22	15.298	15.38	15.46	15.54	15.62
Module Efficiency, (η)	[%]	22.10	22.29	22.47	22.65	22.84	23.02

At low irradiance (200W/M² 25°C and AM15) the module yields at least 95% of the STC efficiency. Test Uncertainty ±3%

At NOCT: 800 W/m², 45 ± 2°C, Amb. temperature at 20°C, 1 m/s Wind Velocity

Type/Model		KRN600BG12R	KRN605BG12R	KRN610BG12R	KRN615BG12R	KRN620BG12R	KRN625BG12R
Max Rated Power, (Pm)	[Wp]	452.16	455.93	459.70	463.46	467.23	471.00
Maximum Power Voltage, (Vmp)	[V]	38.94	39.19	39.43	39.68	39.93	39.99
Open Circuit Voltage, (Voc)	[V]	44.89	45.08	45.27	45.46	45.65	45.84
Short Circuit Current, (Isc)	[A]	16.06	16.10	16.12	16.15	16.17	16.20
Maximum Power Current, (Imp)	[A]	15.36	15.44	15.52	15.60	15.68	15.76
Module Efficiency, (η)	[%]	16.66	16.79	16.93	17.07	17.21	17.35

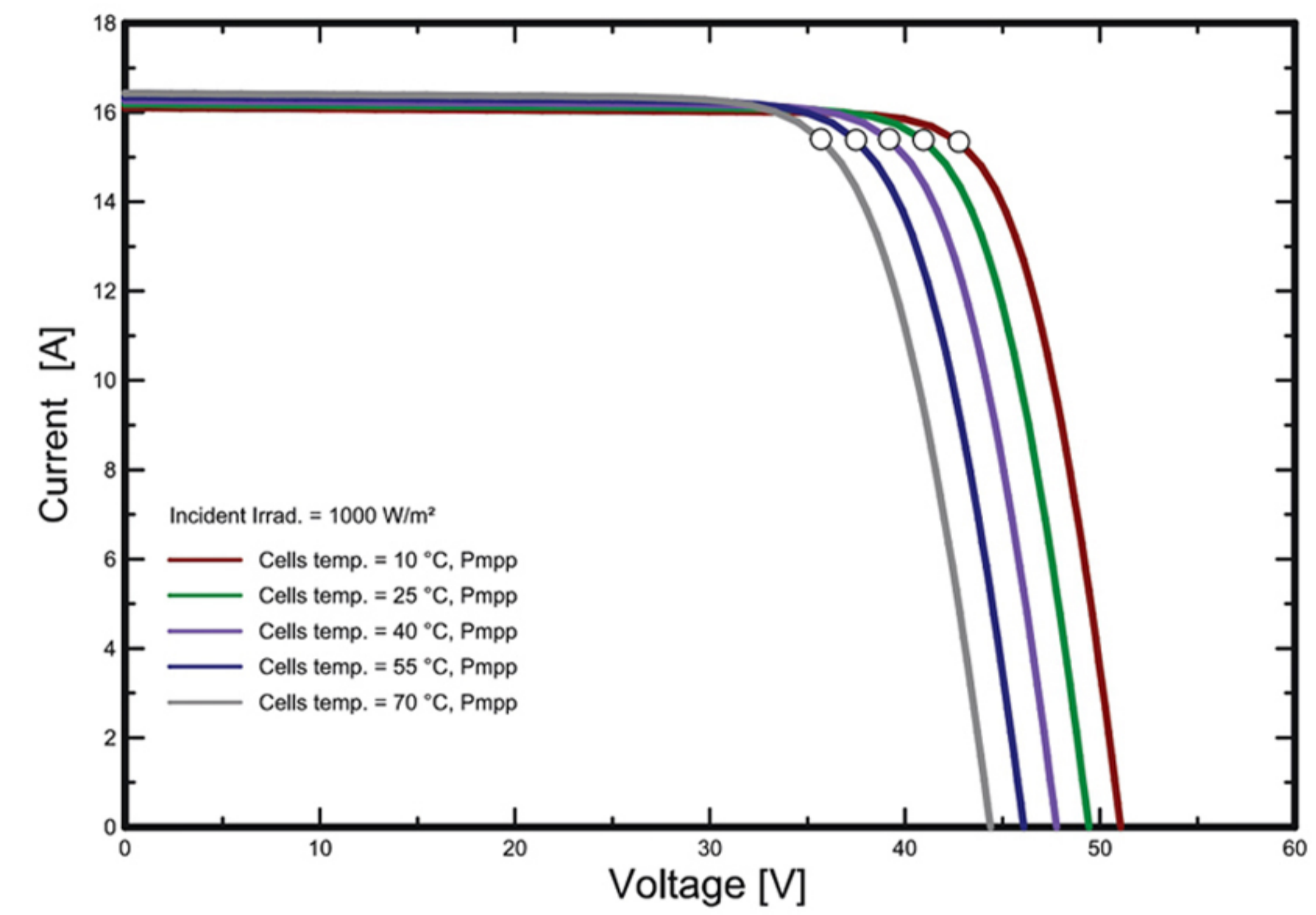
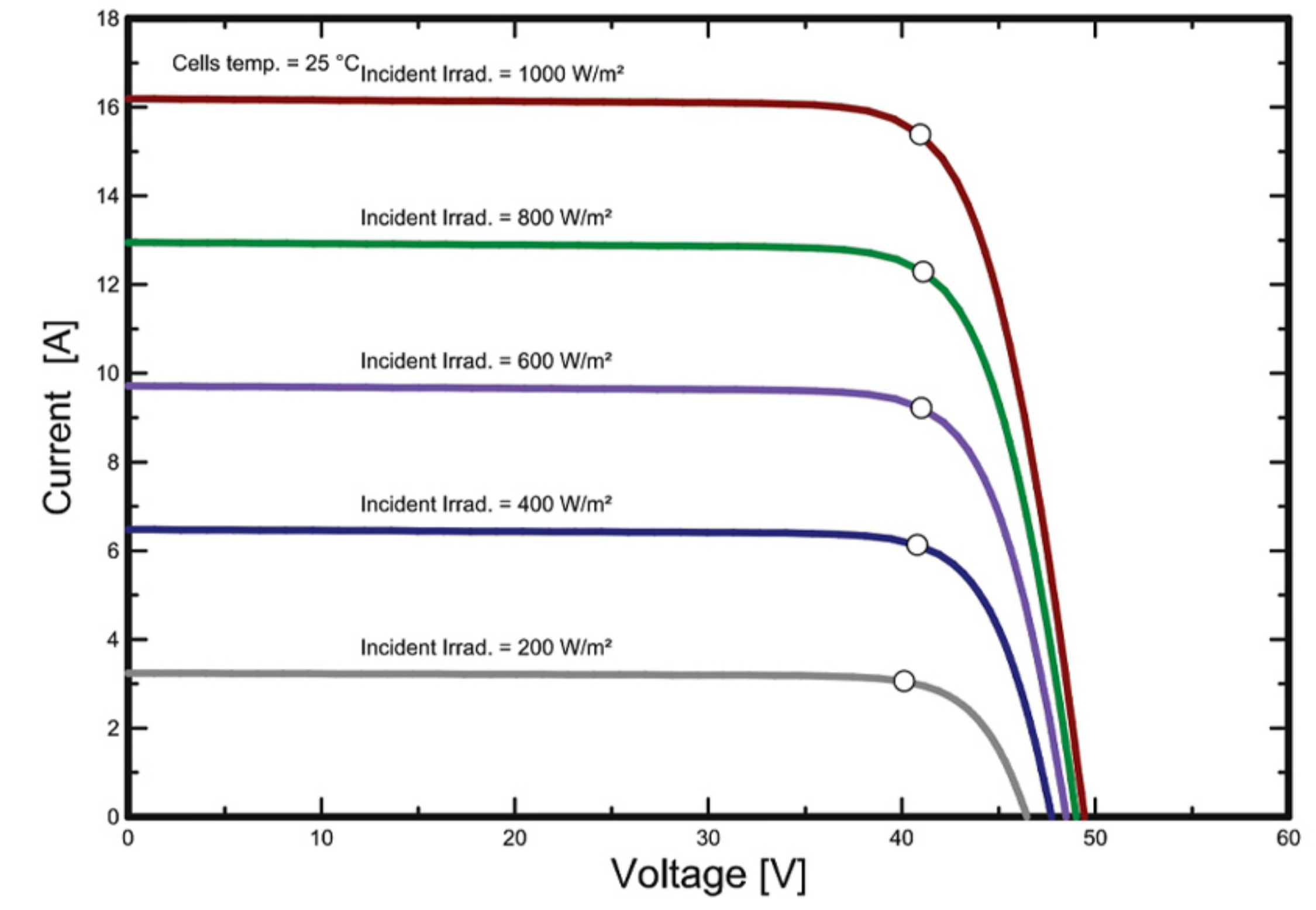
At low irradiance (200W/M² 25°C and AM15) the module yields at least 95% of the STC efficiency. Test Uncertainty ±3%

Bifacial Gain

Type/Model		KRN600BG12R	KRN605BG12R	KRN610BG12R	KRN615BG12R	KRN620BG12R	KRN625BG12R
5%	Pm (Wp)	630.00	635.25	640.50	645.75	651.00	656.25
	Eff (%)	23.32	23.52	23.71	23.91	24.10	24.29
10%	Pm (Wp)	660.00	665.50	671.00	676.50	682.00	687.50
	Eff (%)	24.43	24.64	24.84	25.04	25.25	25.45
15%	Pm (Wp)	690.00	695.75	701.50	707.25	713.00	718.75
	Eff (%)	25.54	25.76	25.97	26.18	26.40	26.61
20%	Pm (Wp)	720.00	726.00	732.00	738.00	744.00	750.00
	Eff (%)	26.65	26.88	27.10	27.32	27.54	27.77
25%	Pm (Wp)	750.00	756.25	762.50	768.75	775.00	781.25
	Eff (%)	27.77	28.00	28.23	28.46	28.69	28.92
30%	Pm (Wp)	780.00	786.50	793.00	799.50	806.00	812.50
	Eff (%)	28.88	29.12	29.36	29.60	29.84	30.08

* The bifacial gain depends on the system design, tilt angle, base surface and structure height.

I-V CURVE



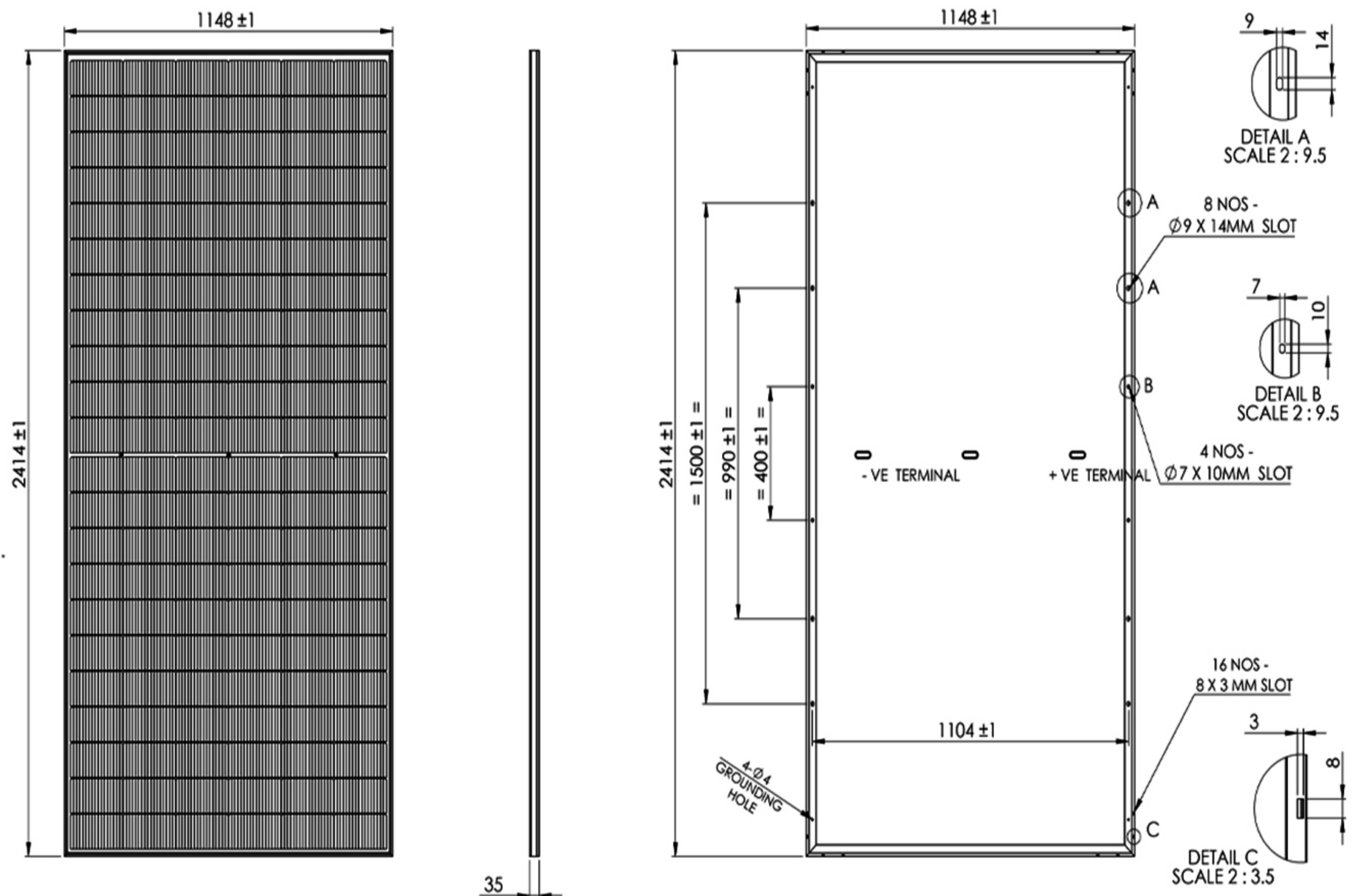
THERMAL COEFFICIENTS

Thermal Coefficient for Open Circuit Voltage	-0.25%/°C
Thermal Coefficient for Short Circuit Current	0.045%/°C
Thermal Coefficient for Max Power	-0.29%/°C
NOCT	45°C ± 2°C
Operating Temperature	-40°C to 85°C
Bi-faciality	80 ± 10%

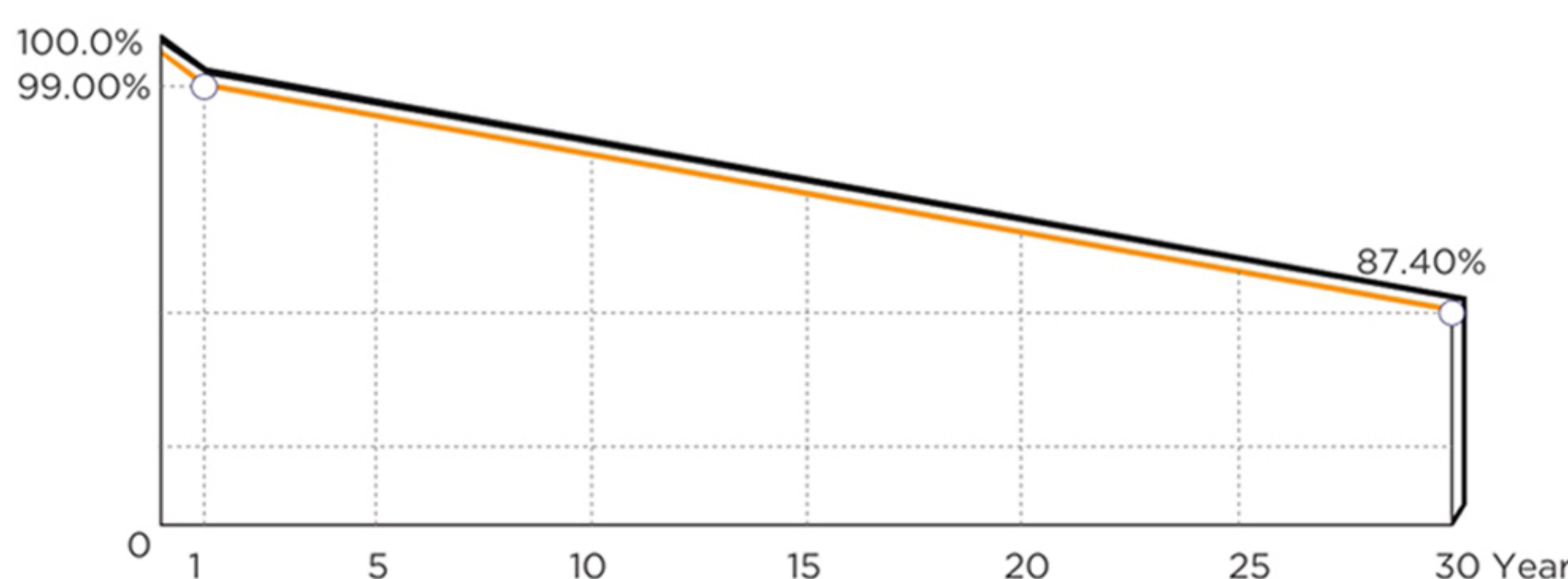
MECHANICAL DATA

Weight	35 kgs
Length x Width x Thickness (L x W x T)	2414 X 1148 X 35 mm
Solar Cell	G12R
Solar Cell Type & Size	132 Cell 105 X 182 mm
Front Glass (Material / Thickness)	2 mm AR Semi Tempered Glass
Back Glass (Material / Thickness)	2 mm Semi Tempered Glass
Junction Box (Protection degree / Material)	IP68
Connector	MC4
Cable cross - section & Length	No. 12 AWG, 4mm ² X 400 mm
Frame	Anodised Aluminium Alloy

DIMENSIONS



DEGRADATION CURVE



WARRANTY TERMS

Product Warranty	12 Years
Performance Warranty	30 Years
1st Year Degradation	1%
2nd to 30th Year Degradation	0.4%

- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing order.
- Refer installation Manual instructions & Krivi Energy warranty statement for terms & conditions.
- Krivi Energy Reserves the right to change the specifications without prior notice.



Factory Address:

Krivi Energy Pvt Ltd Survey no.578/A/Paiki 1.
Plot No.12, Moje Kotambi, Krishna Industrial
Park 03, Waghodia Vadodara - 391510.

Panel Sales Partner:

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