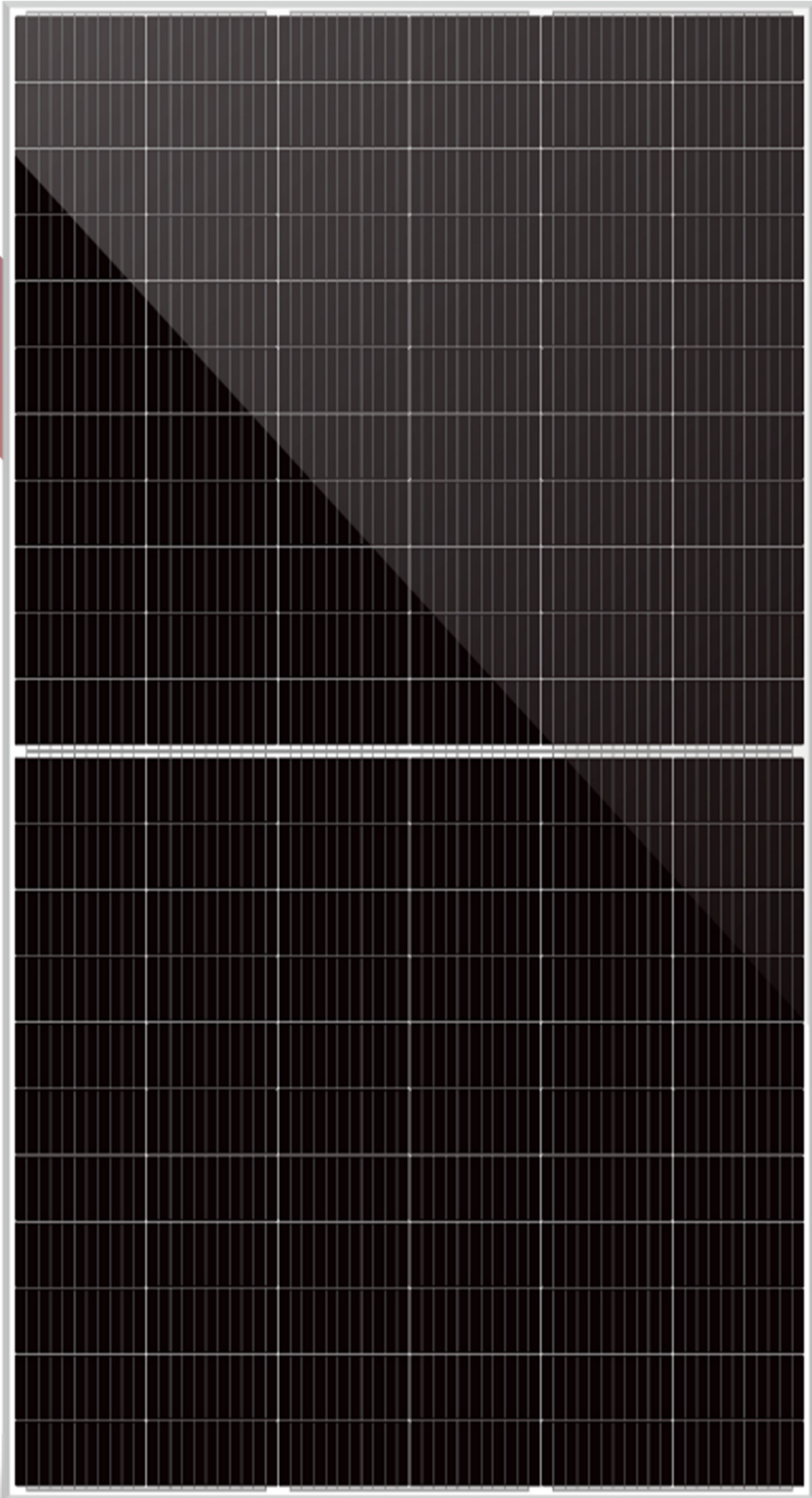


Karna Series G12R



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 600-625Wp

World-Class Solar Panels – 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

Our vision is to establish a 2.5 GW integrated solar facility, setting new benchmarks in quality, reliability, and sustainability.

Certifications



Registered Office: DGS Sheetal Regalia, Office no. 220,221,222,223,224, 2nd Floor, Nensey Colony, Borivali East, Maharashtra-400066
Contact: 1800-268-2244 (Toll Free) / +91-22-3185-6336
solar@krivienergy.com

Factory Address: Shivanta Global Industrial park, Behind Perfect RMC Plant Near Jarod crossing Vadodara-Halol Road Vadodara- 391510
Contact: 1800-268-2244 (Toll Free)

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]	40.24	40.35	40.46	40.57	40.68	40.79
Open Circuit Voltage, (Voc) [V]	46.65	46.79	46.93	47.07	47.20	47.33
Short Circuit Current, (Isc) [A]	15.59	15.67	15.76	15.84	15.93	16.01
Maximum Power Current, (Imp) [A]	14.93	15.01	15.09	15.17	15.25	15.33
Module Efficiency, (η) [%]	22.19	22.38	22.56	22.75	22.93	23.12

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

BIFACIAL GAIN

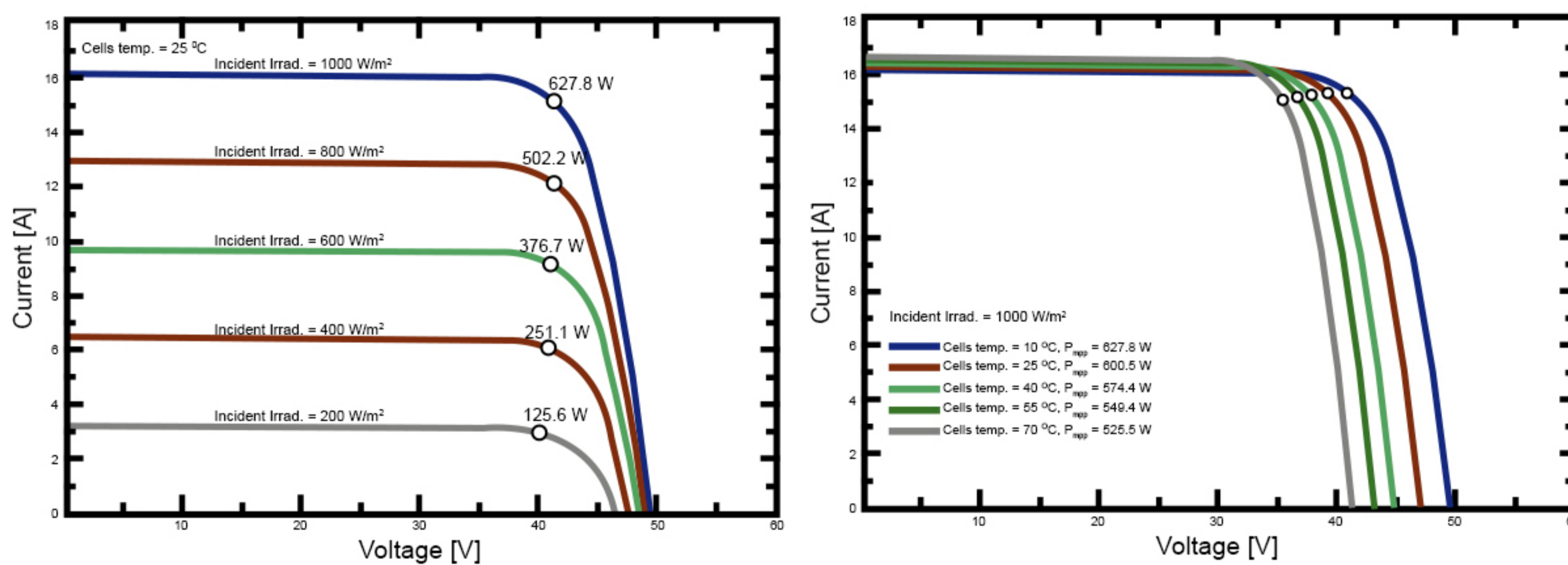
TYPE/MODEL	KRN600BG12R	KRN605BG12R	KRN610BG12R	KRN615BG12R	KRN620BG12R	KRN625BG12R	
5%	PM (Wp)	630.00	635.25	640.50	645.75	651.00	656.25
	EFF (%)	23.32	23.52	23.71	23.91	24.10	24.29
10%	PM (Wp)	660.00	665.50	671.00	676.50	682.00	687.50
	EFF (%)	24.43	24.64	24.84	25.04	25.25	25.45
15%	PM (Wp)	690.00	695.75	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.

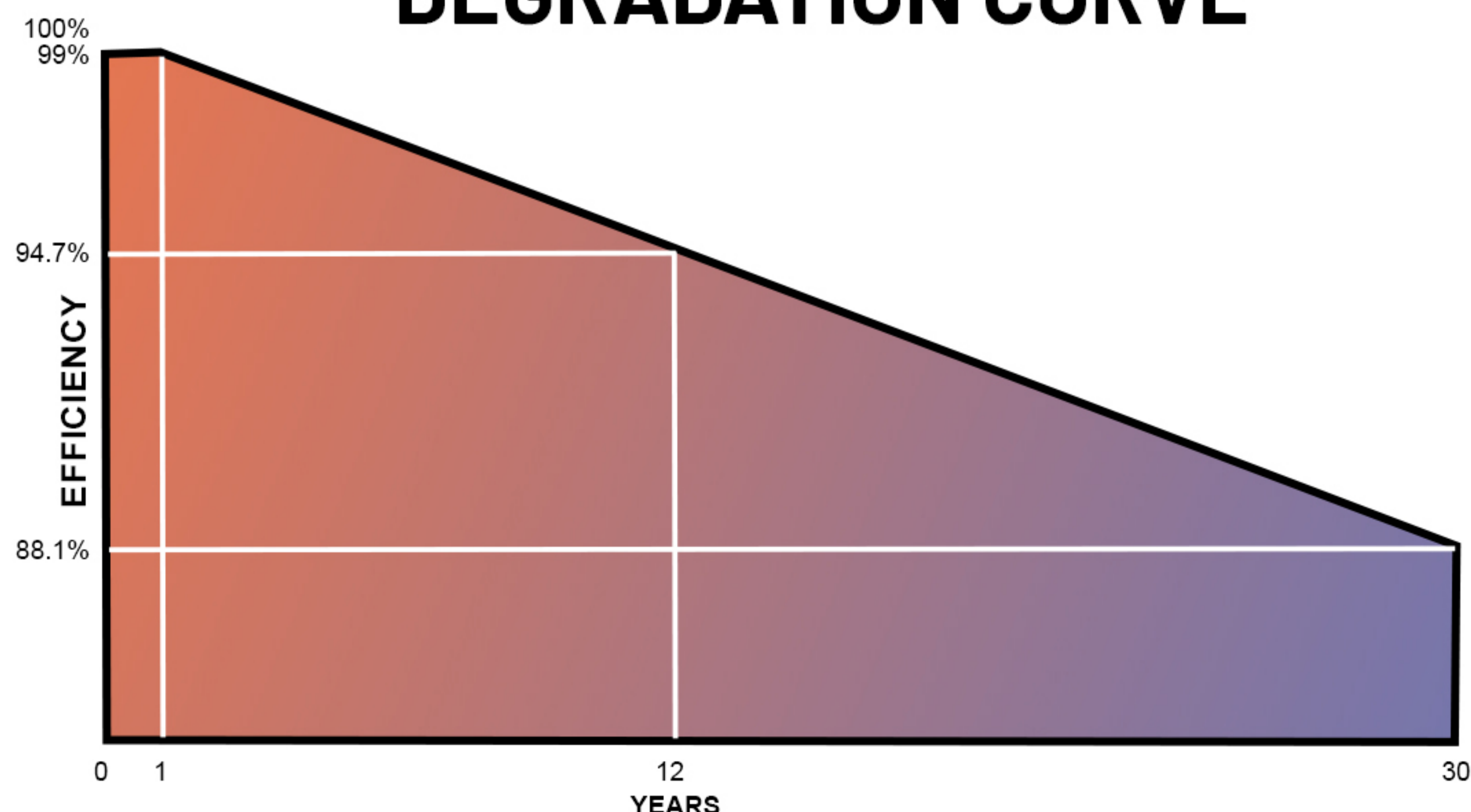
THERMAL COEFFICIENTS

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
Bifaciality	80 ± 7%

I-V CURVE



DEGRADATION CURVE



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

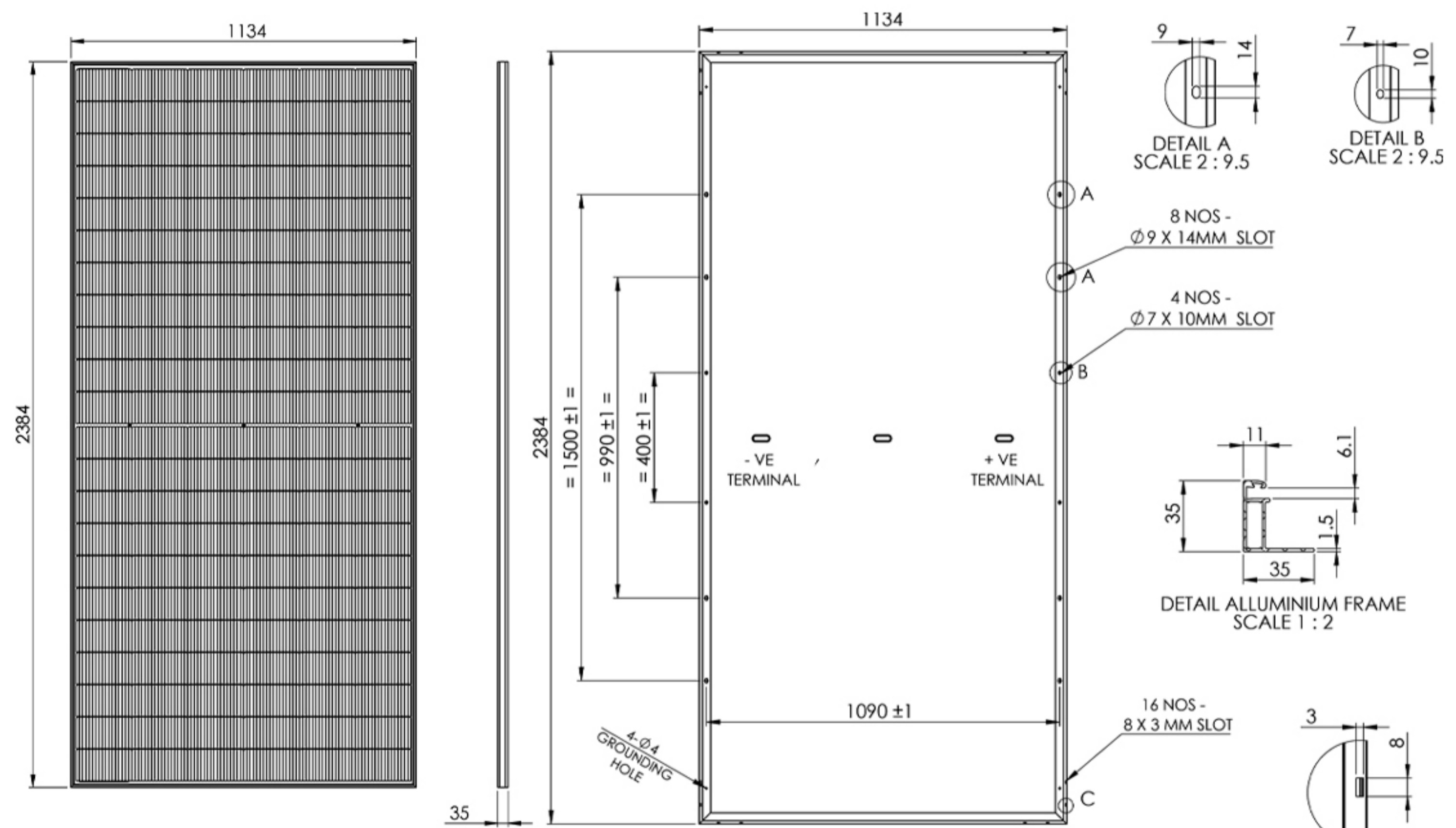
TYPE/MODEL	KRN600BG12R	KRN605BG12R	KRN610BG12R	KRN615BG12R	KRN620BG12R	KRN625BG12R
Max Rated Power, (Pm) [Wp]	452.16	455.93	459.70	463.46	467.23	471.00
Maximum Power Voltage, (Vmp) [V]	38.23	38.33	38.44	38.54	38.65	38.75
Open Circuit Voltage, (Voc) [V]	44.32	44.45	44.58	44.71	44.84	44.96
Short Circuit Current, (Isc) [A]	15.73	15.81	15.90	15.98	16.07	16.15
Maximum Power Current, (Imp) [A]	15.06	15.15	15.23	15.31	15.39	15.47
Module Efficiency, (η) [%]	16.73	16.86	17.00	17.14	17.28	17.42

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

MECHANICAL DATA

Weight	35 Kgs
Length x Width x Thickness (L x W x T)	2384 X 1134 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



WARRANTY TERMS

Product Warranty	12 YEARS
Performance Warranty	30 YEARS
1st Year Degradation	1%
2nd to 30th 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: Shivanta Global Industrial park ,
Behind Perfect RMC Plant Near Jarod crossing
Vadodara-Halol Road Vadodara- 391510
Contact: 1800-268-2244 (Toll Free)