

# KL

Solar

Photovoltaic

Modules



300Watt / 320Watt / 330Watt / 340Watt

*KL provides cost-effective photovoltaic power for general use, operating DC directly or, in an inverter-equipped system, AC loads. The 72 cells in series provides 340 watts of maximum power, it is used primarily in utility grid-supplemental systems, telecommunications, remote villages and clinics, pumping and load-based aids to navigation.*



## Series

# 6

### Proven Materials and Construction

KL experience shows in every aspect of this module's construction and materials

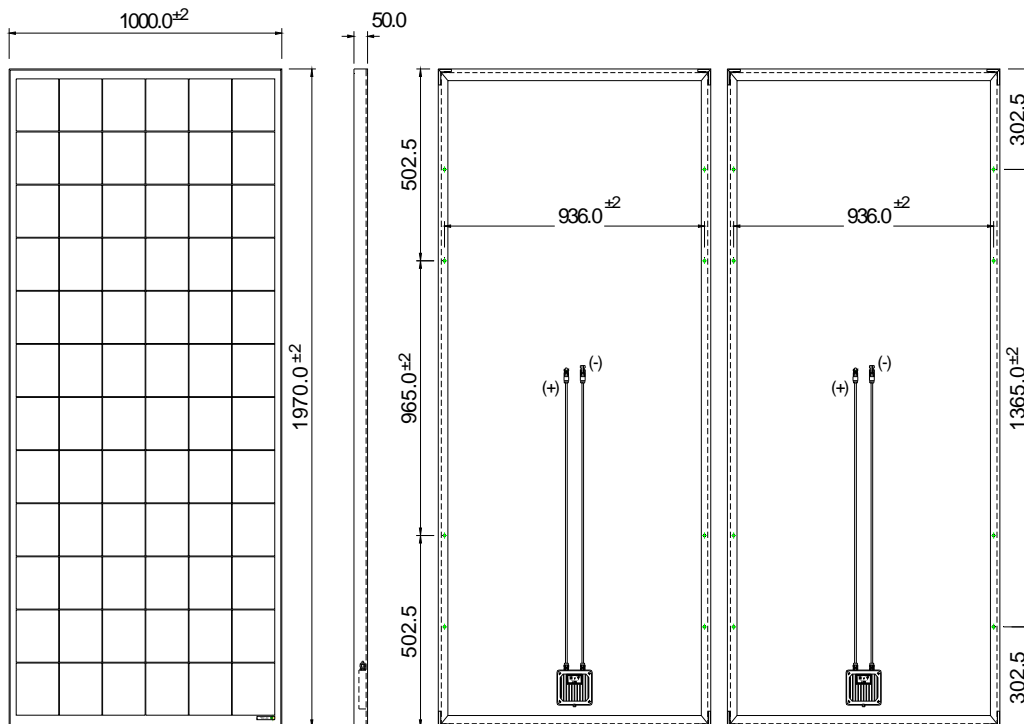
- Anodized aluminum frame offers required strength and allows for quick and easy installation on standard array structures.
- 72 Crystalline silicon solar cells in series with by pass diodes installed.
- Modules are laminated in toughened low iron content PV grade glass – Ethyl Vinyl Acetate films – PV module back sheet.
- Optimized lamination process parameters ensure a stable laminate. Junction Box with PG Cable glands and bypass diodes are standard in all modules.
- Each module is flash tested in a Sun simulator to ensure conformity to specification.

*Polycrystalline Modules*

## Electrical and Mechanical Data

Model	KL300	KL320	KL330	KL340
Maximum power (Pmax)	300 Wp	320 Wp	330 Wp	340 Wp
Open Circuit Voltage (Voc)	45.95 V	45.82 V	45.90 V	46.00 V
Maximum power point voltage (Vmpp)	38.29 V	37.56 V	37.60 V	37.80 V
Short circuit current (Isc)	8.59 A	9.03 A	9.54 A	9.78 A
Maximum power point current (Impp)	7.95 A	8.52 A	8.78 A	8.99 A
Tolerance	±7.5%	±7.5%	±7.5%	±7.5%
Module Efficiency	15.48%	16.51%	16.92%	17.43%
Cell Size (mm)	156 X 156	156 X 156	156 X 156	156 X 156
No. of cells	72	72	72	72
Dimensions (mm) ± 1	1970 x 1000 x 50	1970 x 1000 x 50	1970 x 1000 x 50	1970 x 1000 x 50
Maximum system voltage	1000	1000	1000	1000
Temperature co-efficient ±2	NOCT (°C)47	NOCT (°C)47	NOCT (°C)47	NOCT (°C)47
(Voc) (%/degC)	-0.335	-0.335	-0.335	-0.335
(Isc)(%/degC)	0.047	0.047	0.047	0.047
(Pmax) (%/degC)	-0.450	-0.450	-0.450	-0.450
Weight (kgs)	23.0	23.0	23.0	23.0

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m<sup>2</sup> with AM 1.5 spectra at 25°C



### Quality

The Photovoltaic Modules are manufactured to exceed IEC61215 & EN IEC 61730 Class A, Safety Class II & IEC61701 specifications.

All dimensions are in mm

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Technical Specifications Subject to change without prior notice due to technology upgradation.

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