

KL

Solar

Photovoltaic Modules

12V/24V Series



KL200 / KL220

Polycrystalline Modules

KL Solar provides cost-effective photovoltaic power for general use, operating DC directly or, in an inverter-equipped system, AC loads. The 70 cells in PV Module provides 200Watts to 220Watts of maximum power w.r.t KL200 to KL220, when it is used primarily in utility grid-supplemental systems, telecommunications, remote villages and clinics, pumping and load-based aids to navigation.



**Pictures provided only for illustrative purpose, actual product may differ.*

Proven Materials and Construction

KL Solar 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.
- 70 Crystalline silicon solar cells in series for 24V type 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.



Electrical and Mechanical Data

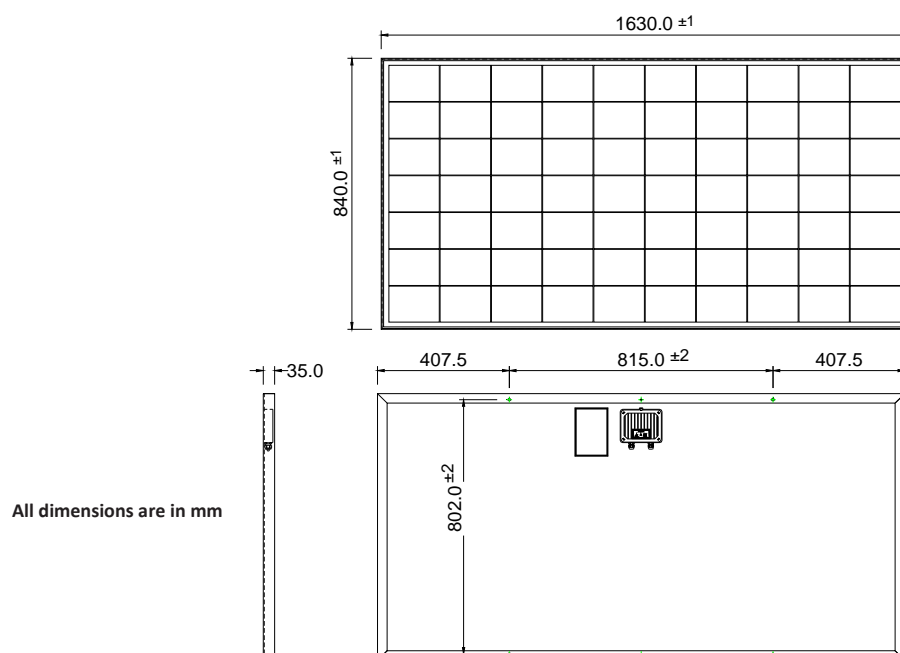
Model	KL200	KL220	KL200
Maximum power (Pmax)	200 Wp	220 Wp	200 Wp
Type	24 V	24 V	12 V
Open Circuit Voltage (Voc)	44.49 V	44.49 V	21.5 V
Maximum power point voltage (Vmpp)	34.52 V	36.12 V	17.5 V
Short circuit current (Isc)	6.14 A	6.45 A	12.57 A
Maximum power point current (Impp)	5.79 A	6.09 A	11.43 A
Tolerance of Pmax	±7.5%	±7.5%	±7.5%
Cell Size (mm)	112 x 156	112 x 156	112 x 156
No. of cells	70	70	70
Dimensions (mm) ± 2	1630 x 840 x 35	1630 x 840 x 35	1630 x 840 x 35
Maximum system voltage	1000	1000	750
Module Efficiency	14.61%	16.06%	14.61%
Weight (kgs)	15.5	15.5	15.5

Standard Test Condition: Irradiance 1,000 W/sq.m, Temperature 25deg C Air mass 1.5 spectrum)

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Performance of Thermal Characteristics

Temperature co-efficient	NOCT (°C)45
Power [Pmax]	-0.43 %/K
Open-circuit voltage [Voc]	-0.36 %/K
Short circuit current (Isc)	+0.06 %/K



Quality

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

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

KL SOLAR COMPANY PVT LTD.,

Coimbatore – 641 062. INDIA.

email : info @ klsolar.com / www.klsolar.com