

KL



Solar

Photovoltaic Modules

KL100 / KL110

Polycrystalline Modules

KL Solar provides cost-effective photovoltaic power for general use, operating DC directly or, in an inverter-equipped system, AC loads. The 36/72 cells in series provides 100W & 110W of maximum power, it is used primarily in utility grid-supplemental systems, telecommunications, remote villages and clinics, pumping and load-based aids to navigation.



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.
- 36/72 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.



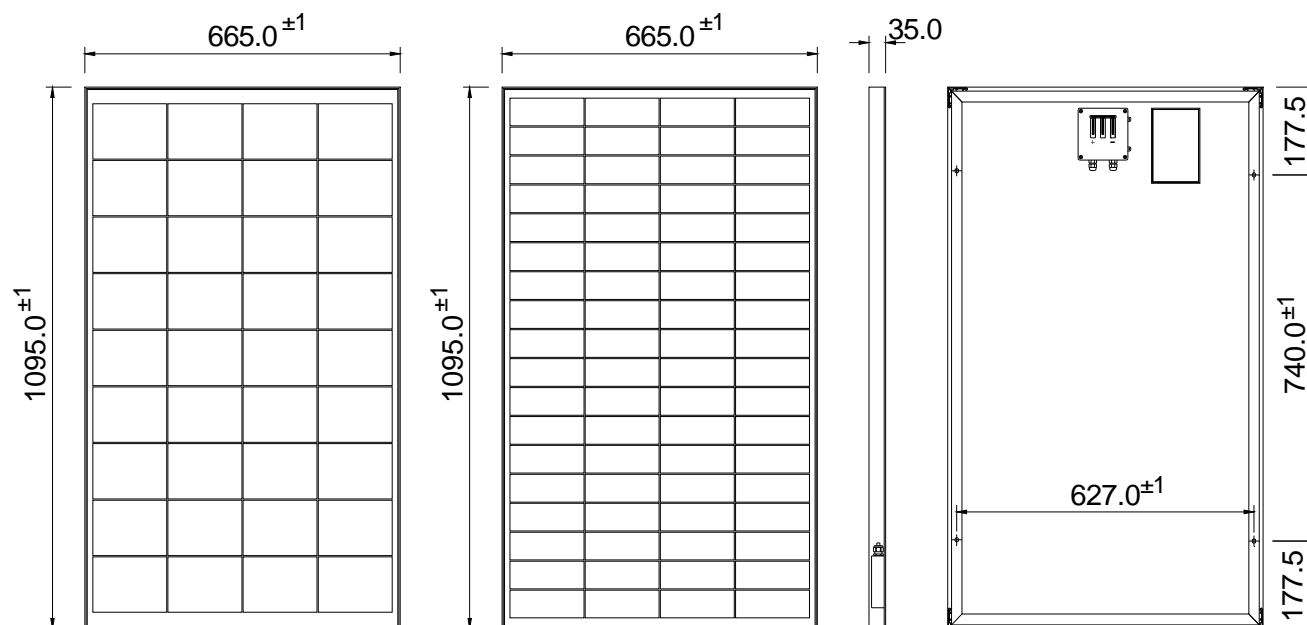
Electrical and Mechanical Data

| Model | KL100 | | KL110 | |
|---------------------------------|-------------|----------|-------------|----------|
| Max. power (Pmax) | 100Wp | | 110Wp | |
| Type | 12 V | 24 V | 12 V | 24 V |
| Open Circuit Voltage (Voc) | 21.75 V | 43.5 V | 21.75 V | 43.5 V |
| Max. power point voltage (Vmpp) | 17.1 V | 34.2 V | 17.1 V | 34.2 V |
| Short circuit current (Isc) | 6.43 A | 3.22 A | 7.08 A | 3.54 A |
| Max. power point current (Impp) | 5.85 A | 2.93 A | 6.43 A | 3.22 A |
| Tolerance of Pmax | ±10% | ±10% | ±10% | ±10% |
| Cell Size (mm) | 112 X 156 | 56 X 156 | 112 x 156 | 56 X 156 |
| No. of cells | 36 | 72 | 36 | 72 |
| Dimensions (mm) | 1095x665x35 | | 1095x665x35 | |
| Max. system voltage | 1000 | | 1000 | |
| Module Efficiency | 13.73% | | 15.10% | |
| Weight (kgs) | 10 | | 10 | |

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

Performance of Thermal Characteristics

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



All dimensions are in mm

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.

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