

KL

Solar

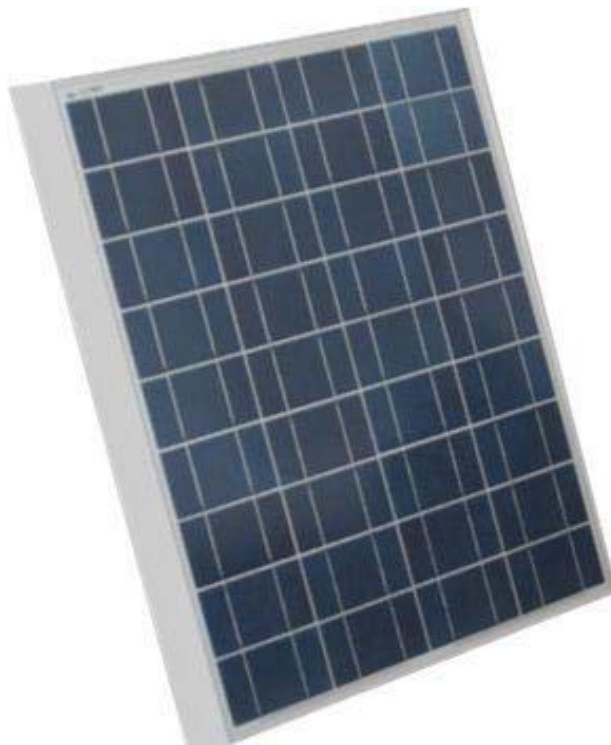
Photovoltaic Modules



KL075 / KL080

Polycrystalline Modules

KL provides cost-effective photovoltaic power for general use, operating DC directly or, in an inverter-equipped system, AC loads. The 36 cells in series provide 75 & 80Watts 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 Crystalline silicon solar cells in series.
- 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 IP65 protection rating are standard in all modules.
- Each module is flash tested in a Sun simulator to ensure conformity to specification.

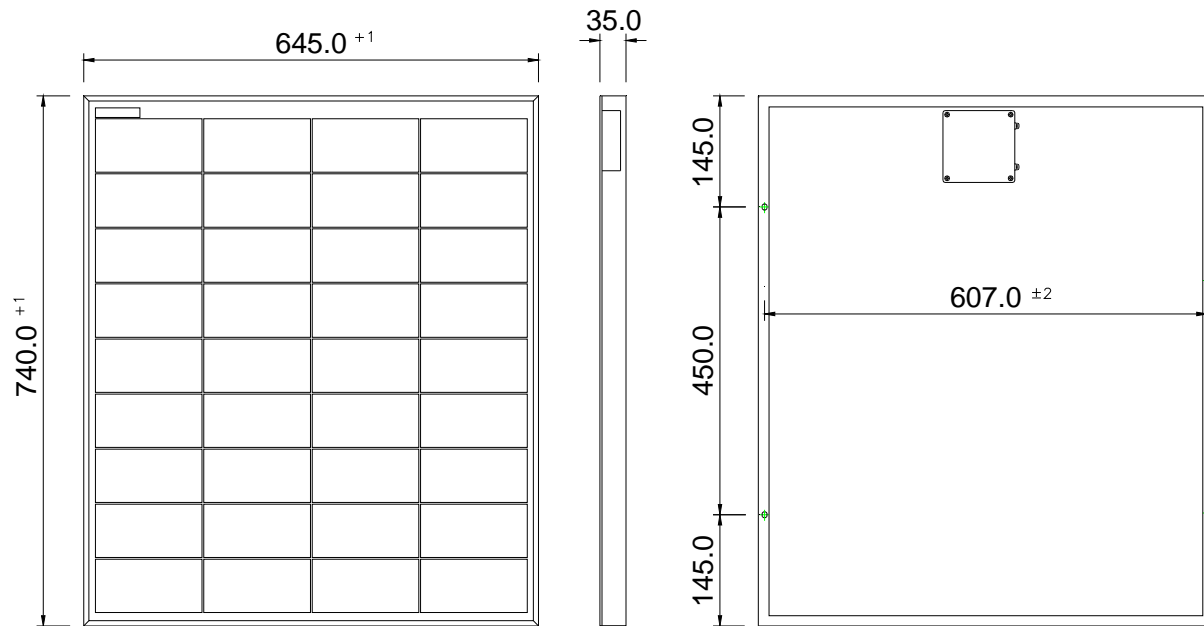
Electrical and Mechanical Data

| Model | KL075 | KL080 |
|------------------------------------|------------------------|------------------------|
| Maximum power (Pmax) | 75 Wp | 80 Wp |
| Open Circuit Voltage (Voc) | 21.5 V | 21.5 V |
| Maximum power point voltage (Vmpp) | 18.0 V | 18.0 V |
| Short circuit current (Isc) | 4.58 A | 4.88 A |
| Maximum power point current (Impp) | 4.16 A | 4.44 A |
| Module Efficiency | 15.47% | 16.76% |
| Tolerance of Pmax | ±10% | ±10% |
| Cell Size (mm) | Cut Cells of 156x156MM | Cut Cells of 156x156MM |
| No. of cells | 36 | 36 |
| Dimensions (mm) ± 1 | 740 x 645 x 35 | 740 x 645 x 35 |
| Maximum system voltage | 1000 | 1000 |
| Weight (kgs) | 5.0 | 5.0 |

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 |
| Power [Pmax] | -0.43 %/K |
| Open-circuit voltage [Voc] | -0.36 %/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.