KL

Solar

Photovoltaic

Modules

KL150

KL provides cost-effective photovoltaic power for general use, operating DC directly or, in an inverter-equipped system, AC loads. The 36 or 72 cells in series provides 150Watts 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

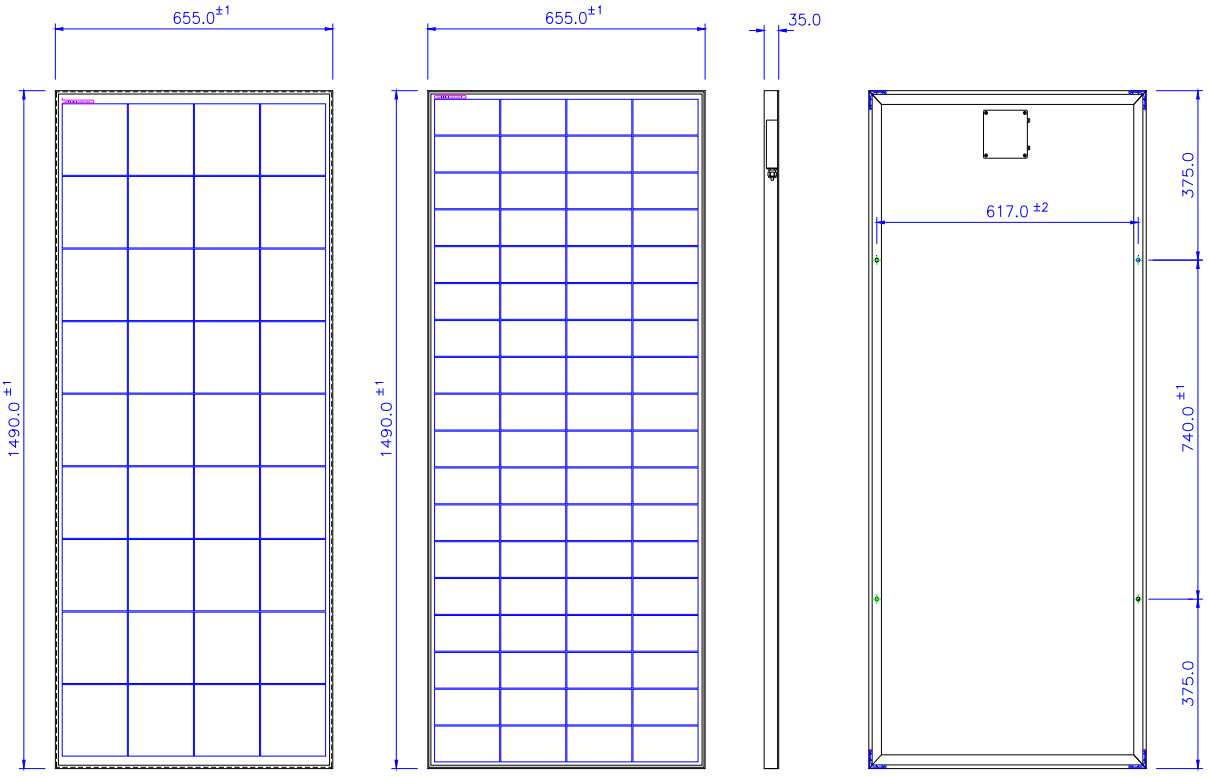
KL experience shows in every aspect of this module's construction and materials

- 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.

Polycrystalline Modules

Electrical and Mechanical Data

Model	KL150	KL150
Maximum power (Pmax)	150 Wp	150 Wp
Module Type	12V	24V
Open Circuit Voltage (Voc)	21.8 V	43.6 V
Maximum power point voltage (Vmpp)	18.0 V	36.0 V
Short circuit current (Isc)	9.10 A	4.59 A
Maximum power point current (Impp)	8.33 A	4.17 A
Cell Size (mm)	156 X 156	78 X 156
No. of cells	36	72
Tolerance	±10%	
Efficiency	15.37%	
Dimensions (mm) ±1	1490 x 655 x 35	
Maximum system voltage	1000	
Temperature co-efficient	NOCT (^{O}C)45	
(Voc) (mV/^{O}C)	- 105	
(Isc) (mA/^{O}C)	- 0.32	
(Pmax) (%/^{O}C)	- 0.45	
Weight (kgs)	10	



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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