

# Solar

## Photovoltaic Modules

### KL065/KL070/KL075

## Series 6

#### Polycrystalline Modules

USL provides cost-effective photovoltaic power for general use, operating DC directly or, in an inverter-equipped system, AC loads. The 36 cells in series provides 65W to 75Watts 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

USL 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.

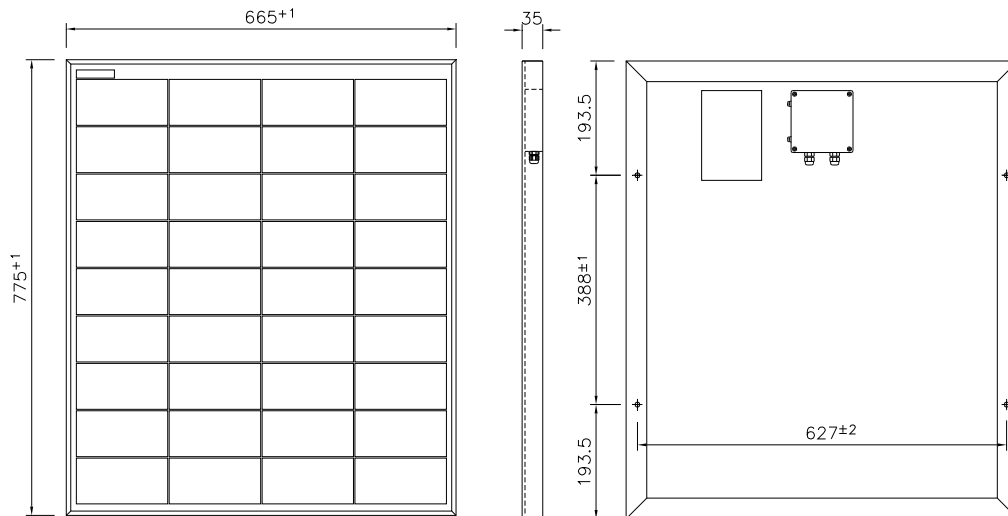
### Electrical and Mechanical Data

Model	KL065	KL070	KL075
Maximum power (Pmax)	65 Wp	70 Wp	75 Wp
Open Circuit Voltage (Voc)	21.5 V	21.5 V	21.5 V
Maximum power point voltage (Vmpp)	17.1 V	17.1 V	18.0 V
Short circuit current (Isc)	4.25 A	4.59 A	4.58 A
Maximum power point current (Impp)	3.81 A	4.10 A	4.16 A
Tolerance of Pmax	±10%	±10%	±10%
Cell Size (mm)	78 X 156	78 X 156	78 X 156
No. of cells	36	36	36
Dimensions (mm) ± 1	775 x 665 x 35	775 x 665 x 35	775 x 665 x 35
Maximum system voltage	1000	1000	1000
Module Efficiency	12.61%	13.58%	14.55%
Weight (kgs)	5.2	5.2	5.2

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

### Qualification and certificates

The Photovoltaic Modules certified to IEC61215 & EN IEC 61730 Class A, Safety Class II

