

# KL

## Solar

### Photovoltaic Modules



## KL50 / KL55 / KL60

*KL Solar 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 60 watts of maximum power, it is used primarily in utility grid-supplemental systems, telecommunications, remote villages and clinics, pumping and load-based aids to navigation.*



**M5  
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P5  
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*M5 Series:  
Monocrystalline modules*

*P5 Series:  
Polycrystalline Modules*

## Electrical and Mechanical Data

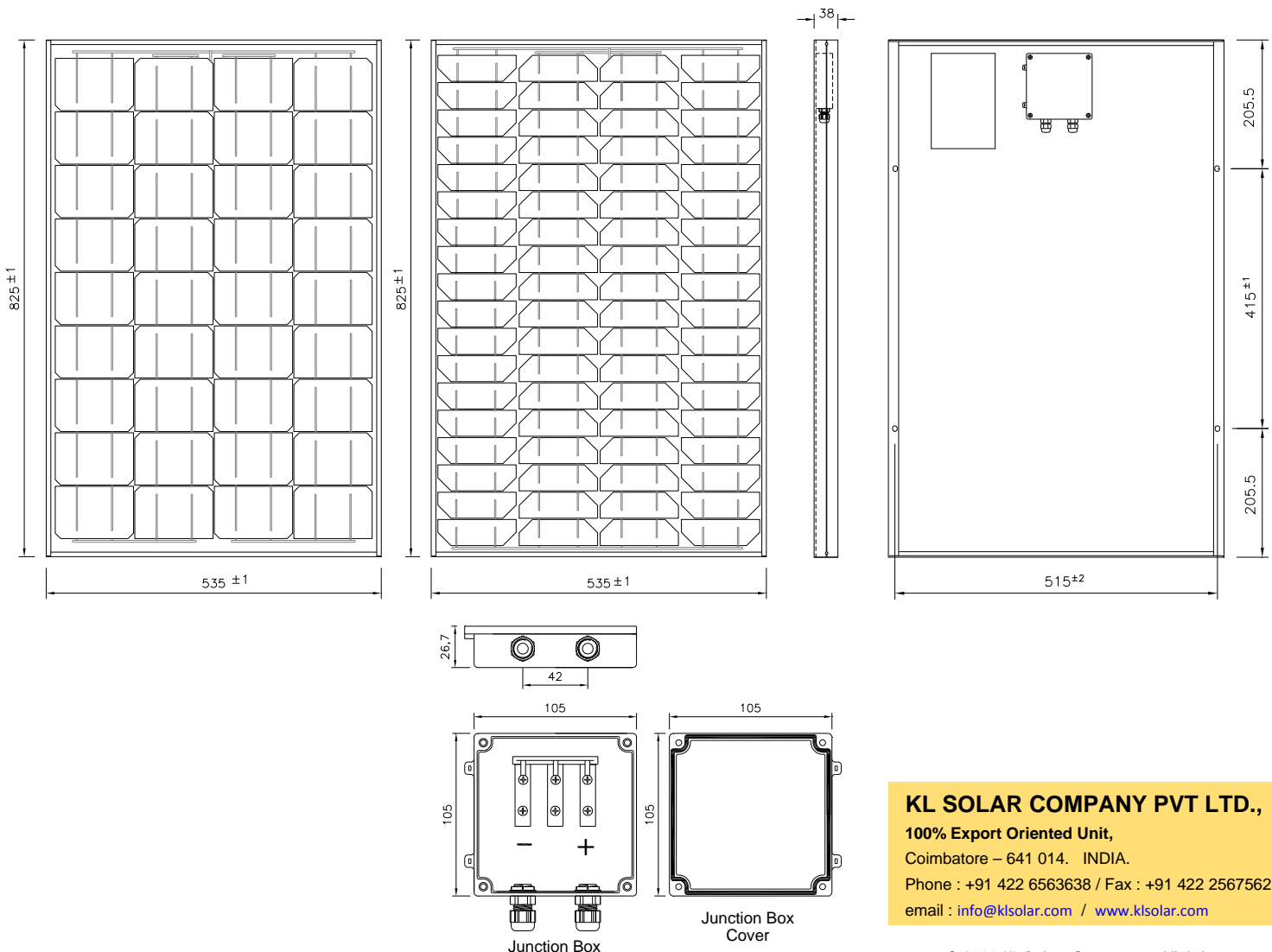
Model	KL50	KL55	KL60
Maximum power ( $P_{max}$ )	50 Wp	55 Wp	60 Wp
Open Circuit Voltage ( $V_{oc}$ )	21.5 V	21.8 V	21.8 V
Maximum power point voltage ( $V_{mpp}$ )	17.1 V	17.3 V	17.3 V
Short circuit current ( $I_{sc}$ )	3.28 A	3.56 A	3.88 A
Maximum power point current ( $I_{mpp}$ )	2.93 A	3.18 A	3.47 A
Tolerance	±10%	±10%	±10%
Cell Size (mm)	83.5 x 125 / 41.5 x 125	83.5 x 125 / 41.5 x 125	83.5 x 125 / 41.5 x 125
No. of cells	36 / 72	36 / 72	36 / 72
Dimensions (mm) ± 1	825 x 535 x 38	825 x 535 x 38	825 x 535 x 38
Maximum system voltage	600	600	600
Temperature co-efficient	NOCT (°C)45	NOCT (°C)45	NOCT (°C)45
$\alpha$ ( $V_{oc}$ ) ( $mV/^{\circ}C$ )	- 105	- 105	- 105
$\beta$ ( $I_{sc}$ ) ( $mA/^{\circ}C$ )	- 0.32	- 0.32	- 0.32
$\chi$ ( $P_{max}$ ) ( $\%^{\circ}C$ )	- 0.45	- 0.45	- 0.45
Weight (kgs)	5.5	5.5	5.5

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

### 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.
- 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 PG Cable glands are standard in all modules.
- Each module is flash tested in a Sun simulator to ensure conformity to specification.



### KL SOLAR COMPANY PVT LTD.,

100% Export Oriented Unit,

Coimbatore – 641 014. INDIA.

Phone : +91 422 6563638 / Fax : +91 422 2567562

email : [info@klsolar.com](mailto:info@klsolar.com) / [www.klsolar.com](http://www.klsolar.com)