USL

Solar Photovoltaic Modules

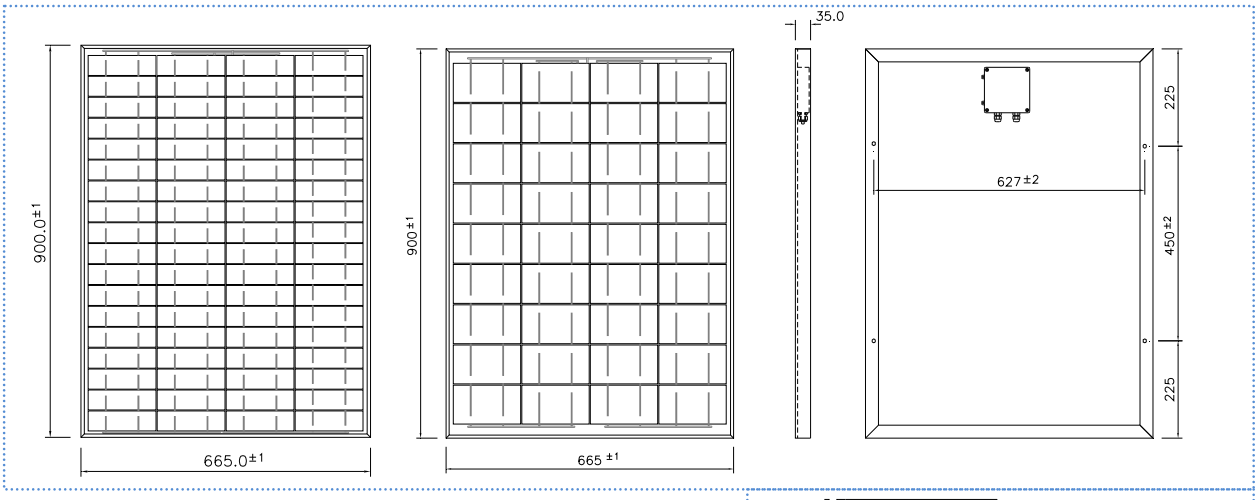
USP60 / USP70 / USP75 / USP80

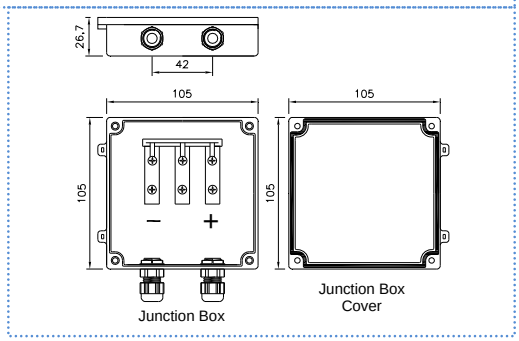
USL Solar modules provides cost-effective photovoltaic power for general use, operating DC directly or, in an inverter-equipped system, AC loads. The 36 cells in series provides 60W, 70W, 75W & 80 watts of maximum power, it is used primarily in utility grid-supplemental systems, telecommunications, remote villages and clinics, pumping and load-based aids to navigation.

P6

SERIES

Polycrystalline Modules





Electrical and Mechanical Data

Model	**USP60**	**USP70**	**USP75**	**USP80**
Maximum power (Pmax)	60Wp	70Wp	75Wp	80Wp
Open Circuit Voltage (Voc)	21.5 V	21.5 V	21.5 V	21.5 V
Maximum power point voltage (Vmpp)	17.1 V	17.1 V	17.1 V	17.1 V
Short circuit current (Isc)	3.92 A	4.59 A	4.90 A	5.24 A
Maximum power point current (Impp)	3.50 A	4.10 A	4.38 A	4.68 A
Tolerance	±10%	±10%	±10%	±10%
Cell Size (mm)	92 X 156 / 46 X 156	92 X 156 / 46 X 156	92 X 156 / 46 X 156	92 X 156 / 46 X 156
No. of cells	36 / 72	36 / 72	36 / 72	36 / 72
Dimensions (mm) ± 1	900 x 665 x 35	900 x 665 x 35	900 x 665 x 35	900 x 665 x 35
Maximum system voltage	600	600	600	600
Temperature co-efficient	NOCT (^{O}C)45	NOCT (^{O}C)45	NOCT (^{O}C)45	NOCT (^{O}C)45
(Voc) (mV/^{O}C)	- 105	- 105	- 105	- 105
(Isc) (mA/^{O}C)	- 0.32	- 0.32	- 0.32	- 0.32
(Pmax) (%/^{O}C)	- 0.45	- 0.45	- 0.45	- 0.45
Weight (kgs)	6	6	6	6

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

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

Udhaya Semiconductors Limited
Coimbatore: 641 062. INDIA.
Phone: +91 422 2627003 Fax : +91 422 2628504
Email: info @ uslsolar.com;Website : www.uslsolar.com