

UPL

Solar

Photovoltaic

Modules



USP75 / USP80 / USP90

UPL 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 75W, 80W & 90Watts of maximum power, it is used primarily in utility grid-supplemental systems, telecommunications, remote villages and clinics, pumping and load-based aids to navigation.

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P5

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*M5 Series:
Monocrystalline modules*

*P5 Series:
Polycrystalline Modules*

Electrical and Mechanical Data

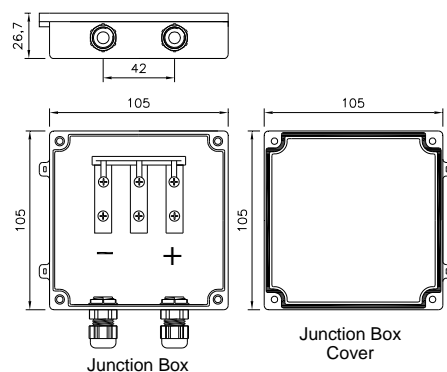
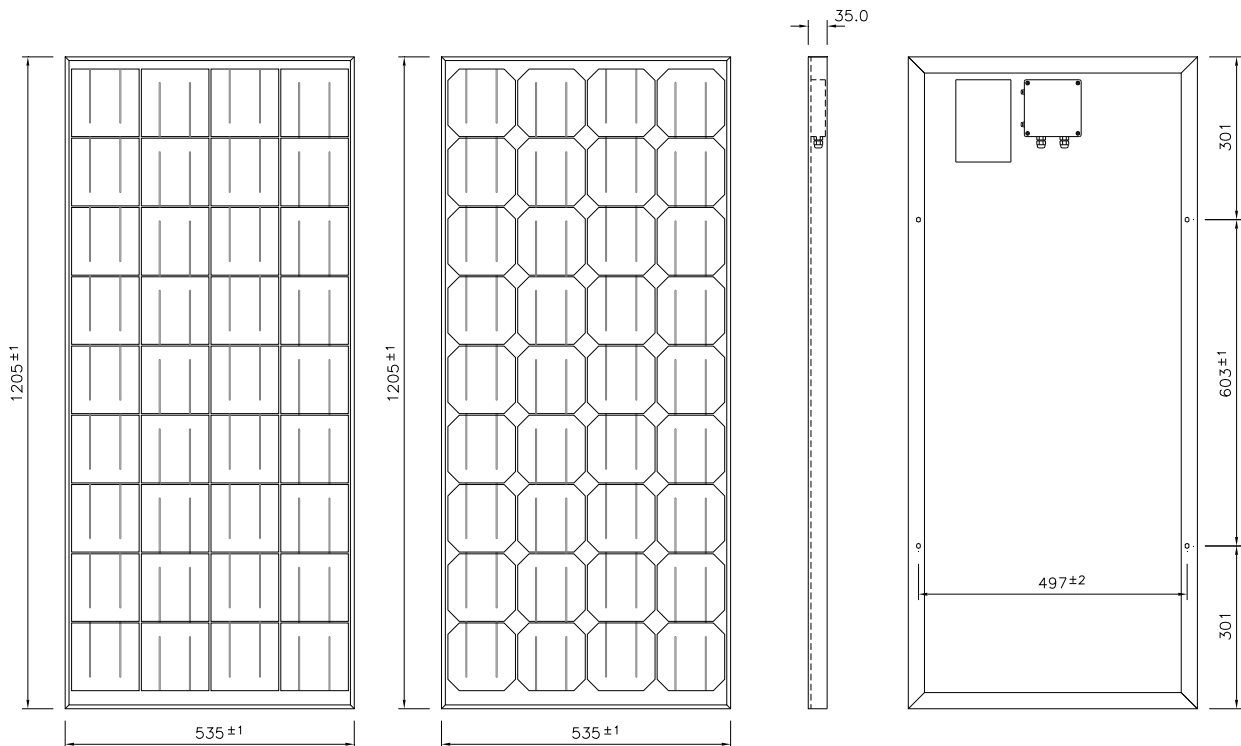
Model	USP75	USP80	USP90
Maximum power (Pmax)	75 Wp	80 Wp	90 Wp
Open Circuit Voltage (Voc)	21.5 V	21.8 V	22.3 V
Maximum power point voltage (Vmpp)	17.1 V	17.3 V	17.6 V
Short circuit current (Isc)	4.92 A	5.18 A	5.76 A
Maximum power point current (Impp)	4.39 A	4.63 A	5.12 A
Tolerance	±7.5%	±7.5%	±7.5%
Cell Size (mm)	125 x 125	125 x 125	125 x 125
No. of cells	36	36	36
Dimensions (mm) ± 1	1205 x 535 x 35	1205 x 535 x 35	1205 x 535 x 35
Maximum system voltage	600	600	600
Temperature co-efficient	NOCT (°C)45	NOCT (°C)45	NOCT (°C)45
$\frac{\partial V_{oc}}{\partial T}$ (mV/°C)	- 105	- 105	- 105
$\frac{\partial I_{sc}}{\partial T}$ (mA/°C)	- 0.32	- 0.32	- 0.32
$\frac{\partial P_{max}}{\partial T}$ (%/°C)	- 0.45	- 0.45	- 0.45
Weight (kgs)	7.5	7.5	7.5

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

Proven Materials and Construction

UPL 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.



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