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EnergyPal

Solar Panel Guide Specification Data Sheet

UR Energy LLC

URE-24x290-320

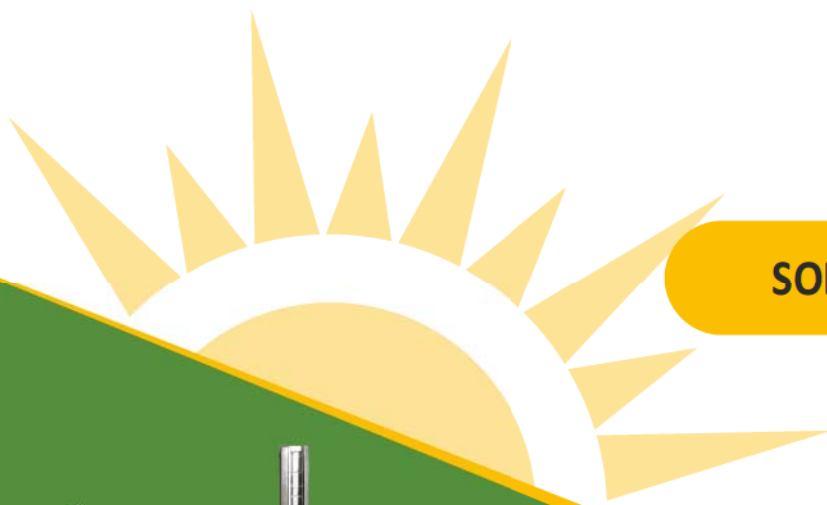
URE-24x290

Also available on the web at
EnergyPal.com/ur-energy-llc-solar-panels/ure-24x290

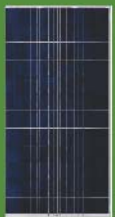


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SOLAR PANEL



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U R Energy started its journey in the solar industry in Australia in 2009 and within 9 years achieved a market leading position servicing 70,000+ residential and commercial customers across the Australian solar market. Inspired by the success in Australia, the company decided to expand globally and most recently began operations in India in 2015 and the United States of America in 2016. The company now procures, develops and installs solar power systems at economic prices for residential, commercial and utility scale customers across the world including Australia, United States of America, India, Dubai, Africa, and United Kingdom.

Quality is at the core of our business whether it be the solar products we source, our installation process or the service we provide to our customers. U R Energy is an ISO 9001, ISO 14001 and OHSAS 18001 accredited company and we source only the highest quality solar power systems from Tier 1, modern manufacturing facilities around the world.

The business was started with a single goal, to help accelerate the growth and adoption of solar power systems across the world not only for its obvious environmental benefits but also for the economic benefits available to our customers. That's why we offer the highest quality products at the best price available on the market today and as always, backed by our 5% price beat guarantee.



URE-Poly Solar Panels for Made in India requirement

290-325W



Marketed by:



Manufactured by:



MANAGEMENT SYSTEM

- ISO 9001** : Quality management system
- ISO 14001** : Standard for environmental management system
- OHSAS 18001** : International standard for occupational health and safety assessment system

WARRANTY

10 YEARS guarantee on product material

25 YEARS linear power output warranty

Leading Features



Superior Module Efficiency as per International Benchmarks



Positive Power Tolerance 0/+ 5W



PID Resistant with long term reliability



Glass with Anti Reflective Coating Improves light transmission



Salt mist, Ammonia and Hail Resistant (IEC 61701)



Sustain Heavy Wind & Snow loads



IP 67 rated MC4 compatible connectors



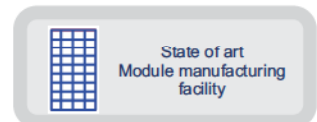
Excellent Performance in low light



Sand and Dust Storm Resistant



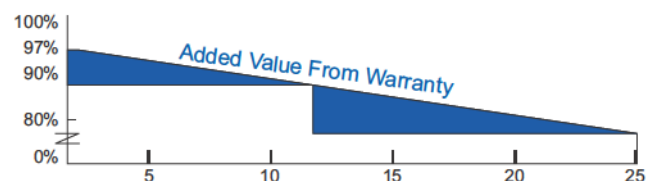
IEC 61215, IEC 61730 (I & II) Certified



25
Years
Output
Warranty

10 years Limited Product Warranty**
25 years Limited Power Output Warranty**

- Minimum 90% at the end of 10 years
- Minimum 80% at the end of 25 years



URE-Poly Solar Panels for Made in India requirement

Electrical & Mechanical Characteristics

Model (as per IEC)	URE-24x290	URE- 24x295	URE- 24x300	URE- 24x305	URE-24x310	URE-24x315	URE-24x320	URE-24x325
Nominal Maximum Power Pm (W)*	290	295	300	305	310	315	320	325
Number of Cells	72	72	72	72	72	72	72	72
Power Tolerance	+5/-0%	+5/-0%	+5/-0%	+5/-0%	+5/-0%	+5/-0%	+5/-0%	+5/-0%
Open Circuit Voltage,VOC (V)*	44.20	44.50	44.80	45	45.30	45.60	46.0	46. 3
Short Circuit Current,ISC (A)*	8.40	8.50	8.60	8.70	8.77	8.85	8.90	8.97
Voltage at Maximum Power, Vmp (V)*	36.40	36.50	36.60	37.00	37.50	37.80	38.1	38. 4
Current at Maximum Power, Imp (A)*	7.97	8.09	8.20	8.25	8.28	8.34	8.40	8.47
Maximum System Voltage (V)	1000	1000	1000	1000	1000	1000	1000	1000
Module Efficiency (%)	14.95	15.20	15.46	15.72	15.98	16.23	16.49	16.49
Maximum Series Fuse Rating (A)	15	15	15	15	15	15	15	15
*Under Standard Test Conditions (STC) of 1000W/m² irradiance, AM 1.5 spectrum and 25°C Cell temperature.								
Module Length (L) -mm	1960	1960	1960	1960	1960	1960	1960	1960
Module Width (W) - mm	990	990	990	990	990	990	990	990
Mounting Holes Pitch (Y) - mm	1000	1000	1000	1000	1000	1000	1000	1000
Mounting Holes Pitch (X) -mm	948	948	948	948	948	948	948	948
Weight	22	22	22	22	22	22	22	22

Module Specification

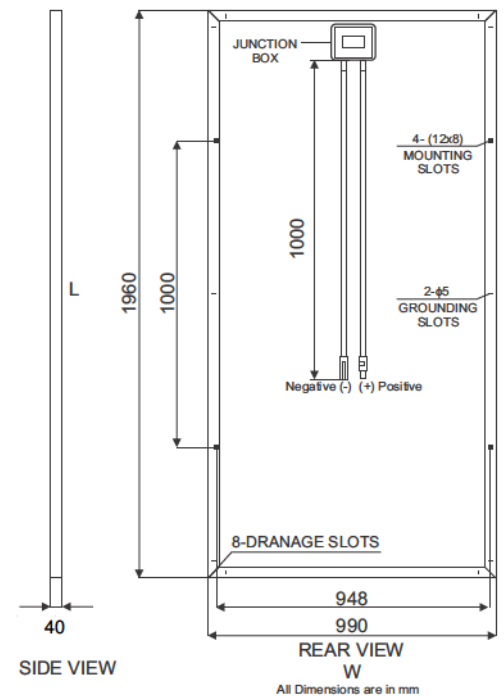
Solar Cell type	Polycrystalline
Front Cover (Material / Thickness)	High transmission low iron 3.2mm tempered glass
Encapsulate	EVA (Ethylene Vinyl Acetate)
Frame Material	Anodized aluminium frame with twin wall profile (6036-T6)
Junction Box (Protection degree)	3 bypass diodes,IP-67,TUV+UL 1000V
Cable & Connectors	4mm ² , TUV+UL Certified, 1000mm & MC4 Compatible
Application Class	Class A (Safety class II)

Thermal Characteristics

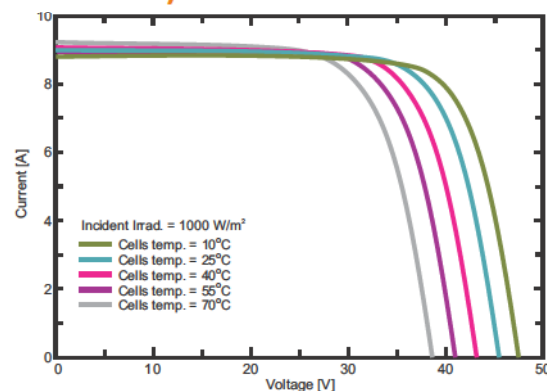
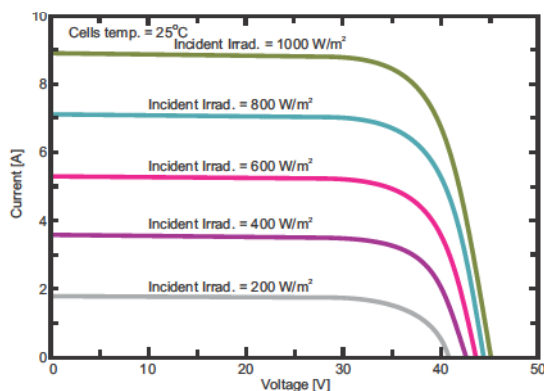
Temperature coefficient of current (I _{sc}), α (%/°C)	+0.04%/°C
Temperature coefficient of Voltage (V _{oc}), β (%/°C)	-0.32%/°C
Temperature coefficient of Power (P _m), γ (%/°C)	-0.43%/°C
NOCT (°C)	47°C ± 2°C
Operating temperature range (°C)	-40°C - +85°C

Packaging Configuration

No. of modules per 40 feet Container	550 Nos
No. of modules per 20 feet Container	125 Nos



I-V Curve (URE-290-E11B)



URE-Poly Solar Panels for Made in India requirement

URE 250W-60P



Features



Positive Tolerance
Guaranteed positive tolerance $\sim +3\%$ ensures reliable power output



Intensive Wind and Snow Load Tests
Entire module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)



Excellent Weak Light Performance
Excellent performance under low light environments to capture early morning and late evening sunlight



World Class Manufacturing Facilities
Our manufacturing facilities are ISO certified for Quality assurance and delivers world class products



Insured by CHUBB Insurance Policy / by reputed international insurance company

URE 300W-72P



Certifications and standards:



- World's trusted manufacturer of crystalline silicon photovoltaic modules
- Un-rivaled manufacturing capacity and world-class technology
- Industry leading module power output warranty
- International quality, safety and performance certifications ISO 9001, ISO, 14001, OHSAS 18001 certified company
- Beautiful appearance, good durability & easy installation
- Special design in accordance with requirements of customers
- Test of harsh environment
- Rigorous quality control meeting the highest international standards

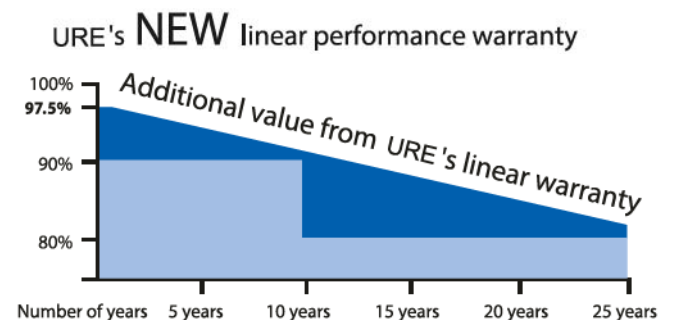
Warranty

05 Years Product Warranty

10 Years limited power warranty for 90% NP

15 Years limited power warranty for 85% NP

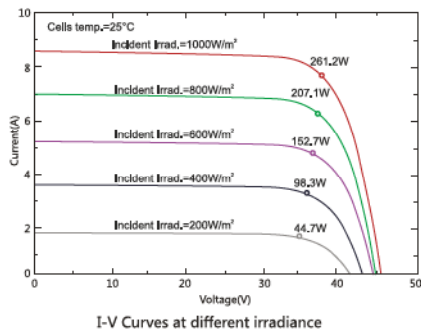
25 Years limited power warranty for 80% NP



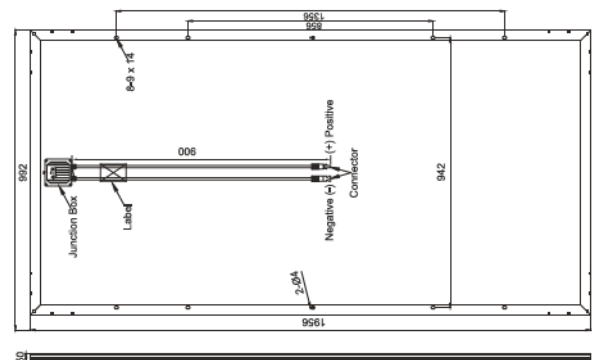
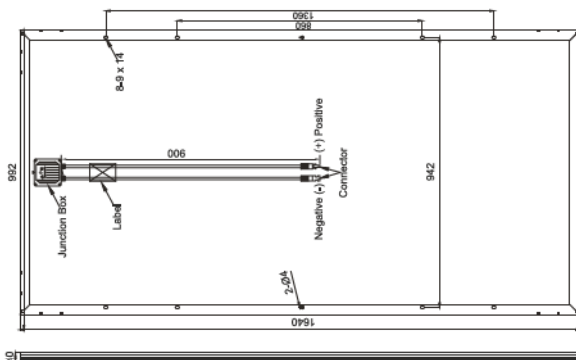
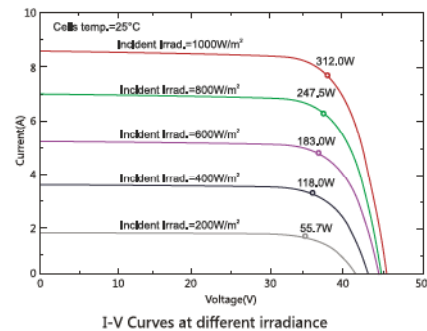
URE-Poly Solar Panels for Made in India requirement

Model type	URE 250-60P	URE 300-72P
Peak power (Pmax)	250W	300W
Maximum power voltage (Vmp)	30.96V	36.60V
Maximum power current (Imp)	8.08A	8.20A
Open circuit voltage (Voc)	37.92V	44.60V
Short circuit Current (Isc)	8.62A	9.10A
Module efficiency	15.05%	15.22%
Number of the cells	60 cells in series	72 cells in series
Weight	19.8 Kg	27.5 Kg
Dimensions	1666 x 996 x 45 mm	1976 x 996 x 45 mm
Fill factor (%)	75.90%	76.01%
Maximum system voltage	DC 1000 V	
Operating Temperature	(-40 ~ + 85%) °C	
Positive Tolerance	± 3%	
Cell type	Poly Crystalline Silicon	
Connectors	Mc4 compatible Ip67	

URE250-60P



URE300-72P



Test Certifications and Warranties

Standard Tests :	CEI/IEC 61215, CEI/IEC 61730-1, CEI/IEC 61730-2, IEC 61701
System Certificates :	ISO 9001 : 2008, ISO 14001:2004, OHSAS 18001 : 2007
Junction Box :	Weather proof (≥Ip65)
Warranties :	05 years Product Warranty
	10 years limited power warranty for 90% NP
	15 years limited power warranty for 85% NP
	25 years limited power warranty for 80% NP



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