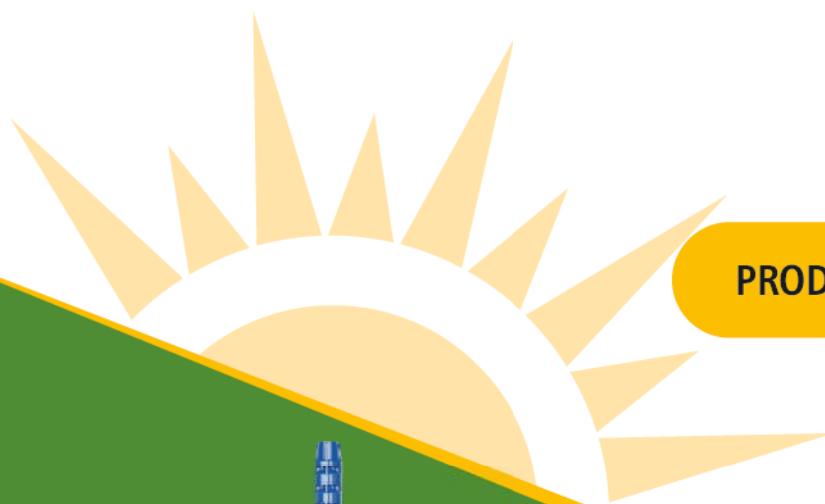




UREnergy®

USA | UK | AFRICA | DUBAI | INDIA | CHINA | AUSTRALIA



PRODUCT MASTER BROCHURE



 **1800 120 4011**

 www.urenergyglobal.com

 india@urenergyglobal.com

How Solar Energy is Produced

- **Photovoltaic solar panels:** The solar panels convert sunlight into Direct Current (DC) electricity
- **Inverter:** An Inverter then converts the DC electricity into 240-volt Alternating Current (AC) electricity suitable to power appliances in your house.
- **Power for your home:** Your home uses electricity firstly from the solar generated system. If your electricity use is higher than the supply available from the panels, your system gets the extra power from the electricity network.
- **Monitoring usage:** A meter is used to monitor the electricity used from the electricity network as well as the electricity your house supplies to the network.
- **Excess energy:** If your solar module system produces more electricity than you use, the excess electricity is exported to the electricity network.

The electricity produced by your PV system is completely independent of your electricity usage in the house as it is connected directly to the utility grid. It will rarely be the case that your electricity production exactly matches your demand. The grid essentially acts like a battery whenever you use less energy, feeding the excess electricity into the utility. On the other hand, if you need more electricity than your PV system produces, you are backed up by the utility.

Automatic Shut-off During Outages ("Anti-Islanding")

To prevent injury to utility personnel working on power lines, power from the inverter to the home's electric module is shut off immediately when there is a utility outage. No power is allowed to flow out of the inverter into the utility grid from the system. This means that the house will have no electric power, either from the solar modules or from the utility, during a utility outage. The inverter will automatically re-start when utility power is restored. There is a five-minute delay before the inverter returns to normal operation, during which it synchronizes with the utility power.



- 1 SOLAR MODULE :** Solar panels converts sunlight into electricity
- 2 DCDB :** Protect the inverter from ground fault, over current and surge.
- 3 INVERTER :** Converts the DC power into AC power using PV panels for your home.
- 4 ACDB :** To protect home appliances from ground fault, over current & surge.
- 5 SOLAR METER :** Measures the generation of PV (Import).
- 6 LOAD DISTRIBUTION PANEL :** Distributes AC power to home
- 7 BI-DIRECTIONAL METER :** Measures the energy in Import & Export way.
- 8 GRID :** Input from concern utility (discom) provider



U R Energy started its journey in the solar industry in Australia in 2009 and within 6 years achieved a market leading position servicing 65,000+ residential and commercial customers across the Australian solar market. Inspired by the success in Australia, the company decided to expand globally and 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. UR Energy group has installed 200+ MW Solar Plants across these countries and adding more daily.

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 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-6PB SERIES 6 INCH 60 CELLS

255-275w



Marketed by:



USA | UK | AFRICA | DUBAI | INDIA | CHINA | AUSTRALIA

Manufactured by:



Rated tire 1 company by **Bloomberg**

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



guarantee on product material



linear power output warranty

INSURANCE



Certifications and standards:



Leading Features

Safety



Safety for salt mist corrosion
(IEC61701, tested in Intertek)



Safety for ammonia corrosion
(IEC62716, tested in TÜV SÜD)



Safety for fire risk
(Class C, tested in TÜV SÜD and Rheinland)

Reliability



PID free products, passing TÜV SÜD system voltage durability test



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

URE-6PB SERIES 6 INCH 60 CELLS

255-275w



Electrical Characteristics

	URE-255-6PB	URE-260-6PB	URE-265-6PB	URE-270-6PB	URE-275-6PB	UNIT
Rated Power at STC (Pmp)	255	260	265	270	275	W
Power Tolerance	(0,+4.99)	(0,+4.99)	(0,+4.99)	(0,+4.99)	(0,+4.99)	W
Maximum Power at STC	259.99	264.99	269.55	274.99	279.99	W
Minimum Module Efficiency (nm)	15.7	16.0	16.3	16.6	16.9	%
Open Circuit Voltage (Voc)	38.1	38.2	38.3	38.4	38.5	V
Short Circuit Current (Isc)	8.60	8.67	8.73	8.82	8.88	A
Maximum Power Voltage (Vmp)	31.9	32.1	32.4	32.7	33.0	V
Maximum Power Current (Imp)	8.00	8.10	8.18	8.28	8.34	A
Maximum System Voltage	1000(TUV), 600(UL)					V
Maximum Series Fuse Rating	15					A

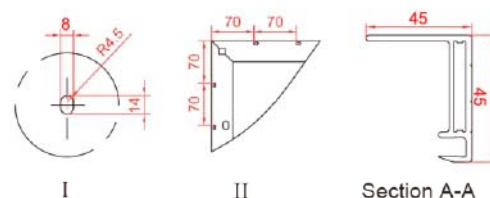
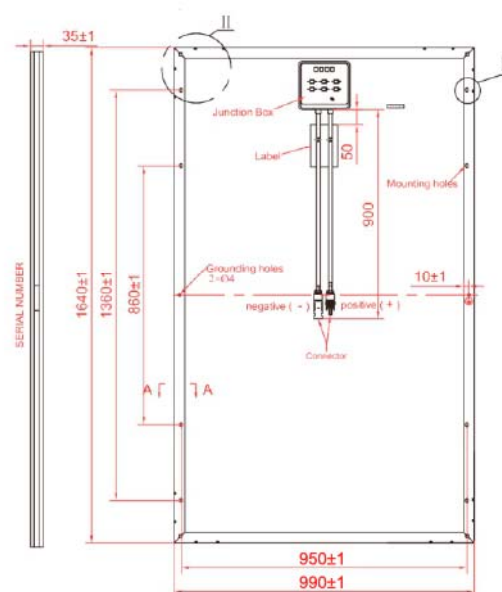
STC: Irradiance 1000 W/m² module temperature 25C AM=1.5;
Power measurement tolerance : +/-3%

Temperature Characteristics

Pmax Temperature Coefficient	-0.42%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.04%/°C
Operating Temperature	-40~+85°C
Nomial Operating Cell Temperature (NOCT)	45±2°C

Packing Configuration

Container	20'GP	40'GP	40' HC
Piecesper Pallet	30	30	N.A
Palletsper Container	12	28	N.A
Piecesper Container	360	840	N.A



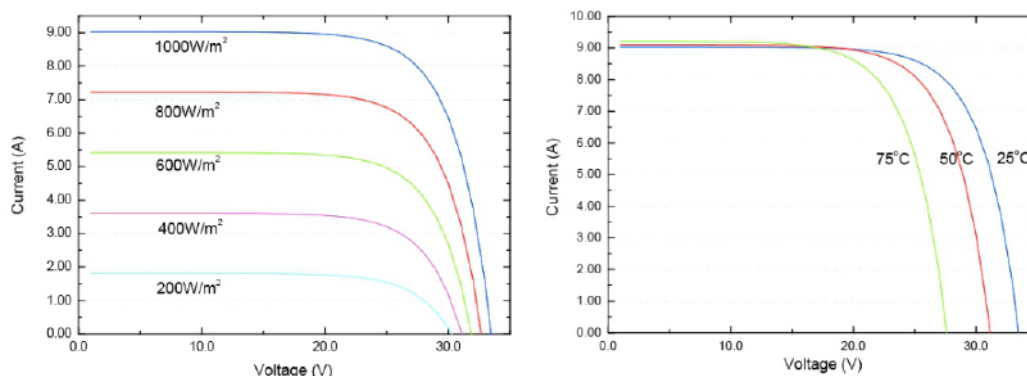
* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

Mechanical Specifications

External Dimensions	1640 x 990 x 45 mm
Weight	19.0kg
Solar Cells	Polycrystalline 156 x 156 mm (60pcs)
Front Glass	3.2mm tempered glass, low iron
Frame	Anodized / Electrophoretic aluminium alloy
Junction Box	IP65/IP67
Output Cables	4.0mm ² , symmetrical lengths 900 mm
Connector	Mc4 Compatible
Mechanical Load	5400 Pa
Hailstone Impact Test	80km/h for 25mm ice ball

Current-Voltage & Power-Voltage Curve(URE-260-6PB)



URE-6PB SERIES 6 INCH 60 CELLS

260-275W



Marketed by:



Manufactured by:



Rated tire 1 company by **Bloomberg**

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



guarantee on product material



linear power output warranty

INSURANCE



Certifications and standards:



Leading Features

Safety



Safety for salt mist corrosion
(IEC61701, tested in Intertek)



Safety for ammonia corrosion
(IEC62716, tested in TÜV SÜD)



Safety for fire risk
(Class C, tested in TÜV SÜD and Rheinland)

Reliability



PID free products, passing TÜV SÜD system voltage durability test



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

URE-6PB SERIES 6 INCH 60 CELLS

Electrical Characteristics (STC)

Module Type	URE-260-6PB	URE-265-6PB	URE-270-6PB	URE-275-6PB
Rated Power at STC (Pmp)	260	265	270	270
Open Circuit Voltage- V_{oc} (V)	38	38.30	38.5	38.8
Short Circuit Current- I_{sc} (A)	8.72	8.83	8.94	9.02
Maximum Power Voltage (Vmp)	30.9	31.1	31.3	31.6
Maximum Power Current (Imp)	8.42	8.52	8.63	8.71
Module Efficiency (nm)	15.98	16.29	16.6	16.9

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;
Power measurement tolerance : +/-3%

Electrical Characteristics (NOCT)

Module Type	URE-260-6PB	URE-265-6PB	URE-270-6PB	URE-275-6PB
Maximum Power at NOCT - (Pmp)	192	196	200	230
Open Circuit Voltage- V_{oc} (V)	35	35.3	35.5	35.7
Short Circuit Current - I_{sc} (A)	7.05	7.14	7.22	7.29
Maximum Power Voltage (Vmp)	28.8	29.1	29.3	29.5
Maximum Power Current (Imp)	6.67	6.74	6.83	6.88
Power Tolerance (W)	(0,+4.99)			
Maximum System Voltage (V)	1000(TUV), 1000 (UL)			
Maximum Series Fuse Rating (A)	15			

NOCT: Irradiance 800 W/m² ambient temperature 20°C speed:m/s
Power measurement tolerance : +/-3%

Temperature Characteristics

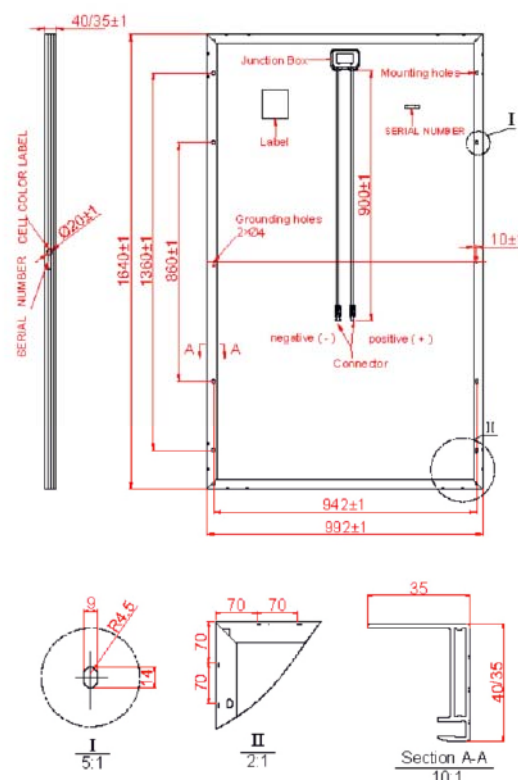
Pmax Temperature Coefficient	-0.41%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

Packing Configuration

Container	20'GP	40'GP	20'GP	40'GP
Pieces per Pallet	26	26	30	30
Pallets per Container	12	28	12	28
Pieces per Container	312	728	360	840

Mechanical Specifications

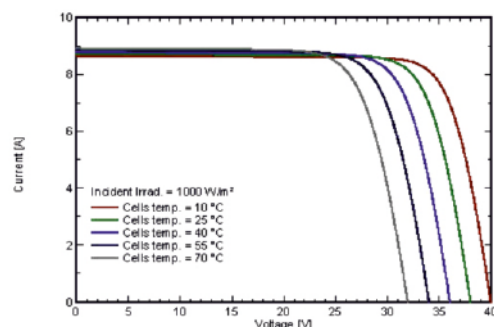
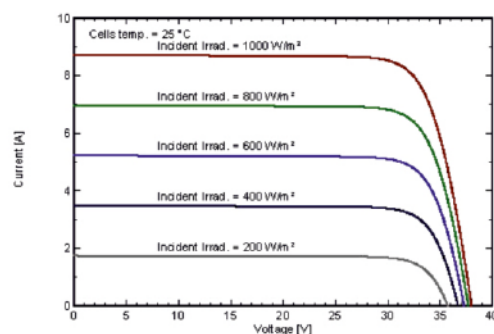
External Dimensions	1640 x 992 x 40 mm	1640 x 992 x 35 mm
Weight	19.0kg	18.5kg
Solar Cells	Polycrystalline 156.75 x 156.75mm (60pcs)	Polycrystalline 156.75 x 156.75mm (60pcs)
Front Glass	3.2mm tempered glass, low iron	3.2mm tempered glass, low iron
Frame	Anodized / aluminium alloy	Anodized / aluminium alloy
Junction Box	IP67	IP67
Output Cables	4.0mm ² , cable length: 900 mm	4.0mm ² , cable length: 900 mm
Connector	MC4 Compatible	MC4 Compatible
Mechanical Load	5400 Pa	5400 Pa



* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

I-V Curve (URE-6PB)



305-325w



Marketed by:
UREnergy®
USA | UK | AFRICA | DUBAI | INDIA | CHINA | AUSTRALIA

Manufactured by:
SERAPHIM®

Rated tire 1 company by **Bloomberg**

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

INSURANCE



Certifications and standards:



Leading Features

Safety



Safety for salt mist corrosion
(IEC61701, tested in Intertek)



Safety for ammonia corrosion
(IEC62716, tested in TÜV SÜD)



Safety for fire risk
(Class C, tested in TÜV SÜD and Rheinland)

Reliability



PID free products, passing TÜV SÜD system voltage durability test



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



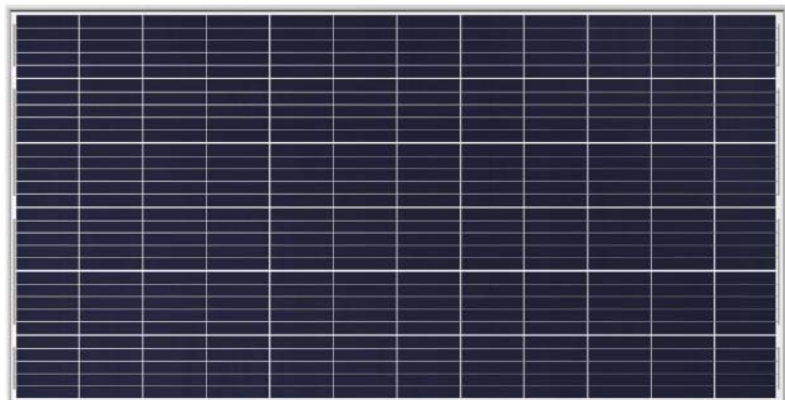
100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

URE-6PA SERIES 6 INCH 72 CELLS

305-325w



Electrical Characteristics

	URE-305-6PA	URE-310-6PA	URE-315-6PA	URE-320-6PA	URE-325-6PA	UNIT
Rated Power at STC (Pmp)	305	310	315	320	325	W
Power Tolerance	(0,+4.99)	(0,+4.99)	(0,+4.99)	(0,+4.99)	(0,+4.99)	W
Maximum Power at STC	309.99	314.99	319.99	324.99	329.99	W
Minimum Module Efficiency (nm)	15.71	15.97	16.23	16.49	16.8	%
Open Circuit Voltage (Voc)	45.5	45.7	45.9	46.1	46.3	V
Short Circuit Current (Isc)	8.60	8.60	8.73	8.82	8.88	A
Maximum Power Voltage (Vmp)	38.2	38.4	38.6	38.8	39.0	V
Maximum Power Current (Imp)	7.99	8.08	8.17	8.25	8.34	A
Maximum System Voltage	1000(TUV), 1000 (UL)					V
Maximum Series Fuse Rating	15					A

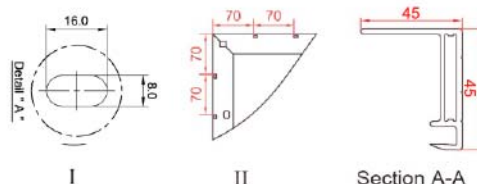
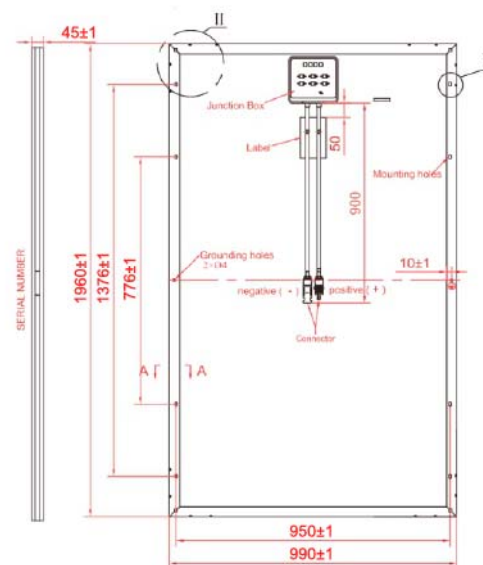
STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;
Power measurement tolerance : +/-3%

Temperature Characteristics

Pmax Temperature Coefficient	-0.42%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.04%/°C
Operating Temperature	-40~+85°C
Nomial Operating Cell Temperature (NOCT)	45±2°C

Packing Configuration

Container	20' GP	40' GP	40' HC
Piecesper Pallet	26	26	N.A
Palletsper Container	10	22	N.A
Piecesper Container	260	572	N.A



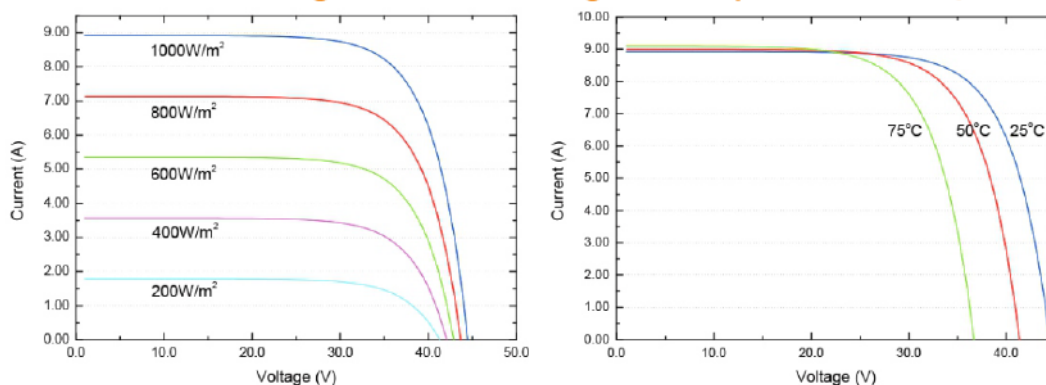
* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

Mechanical Specifications

External Dimensions	1960 x 990 x 45 mm
Weight	24.0kg
Solar Cells	Polycrystalline 156 x 156 mm (72pcs)
Front Glass	3.2mm tempered glass, low iron
Frame	Anodized / Electrophoretic aluminium alloy
Junction Box	IP65/IP67
Output Cables	4.0mm ² , symmetrical lengths 900 mm
Connector	Mc4 Compatible
Mechanical Load	5400 Pa
Hailstone Impact Test	80km/h for 25mm ice ball

Current-Voltage & Power-Voltage Curve(URE-310-6PA)



URE-6PB SERIES 6 INCH 72 CELLS

315-330W



Marketed by:



Manufactured by:



Rated tire 1 company by **Bloomberg**

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



guarantee on product material



linear power output warranty

INSURANCE



Certifications and standards:



Leading Features

Safety



Safety for salt mist corrosion (IEC61701, tested in Intertek)



Safety for ammonia corrosion (IEC62716, tested in TÜV SÜD)



Safety for fire risk (Class C, tested in TÜV SÜD and Rheinland)

Reliability



PID free products, passing TÜV SÜD system voltage durability test



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

URE-6PB SERIES 6 INCH 72 CELLS

Electrical Characteristics (STC)

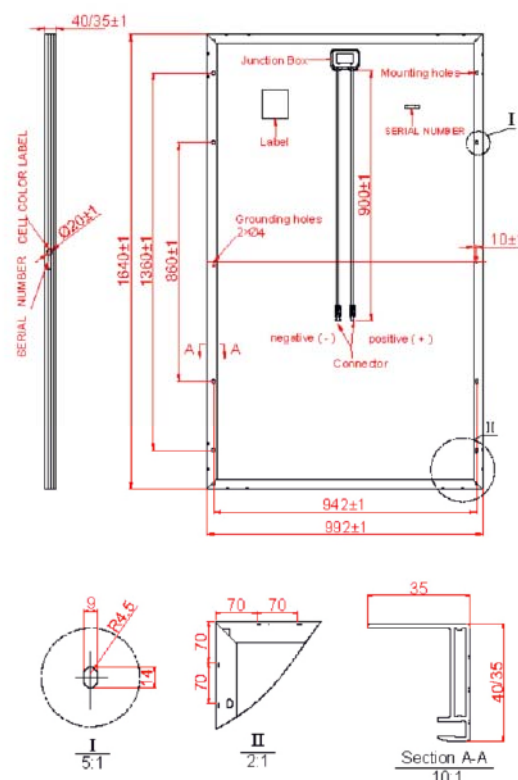
Module Type	URE-315-6PA	URE-320-6PA	URE-325-6PA	URE-330-6PA
Rated Power at STC (Pmp)	315	320	325	330
Open Circuit Voltage- V_{oc} (V)	45.3	45.5	45.7	45.9
Short Circuit Current- I_{sc} (A)	8.87	8.96	9.03	9.12
Maximum Power Voltage (Vmp)	36.8	37	37.3	37.5
Maximum Power Current (Imp)	8.56	8.65	8.72	8.80
Module Efficiency (nm)	16.23	16.49	16.75	17.01

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;
Power measurement tolerance : +/-3%

Electrical Characteristics (NOCT)

Module Type	URE-315-6PA	URE-320-6PA	URE-325-6PA	URE-330-6PA
Maximum Power at NOCT - (Pmp)	233	236	240	244
Open Circuit Voltage- V_{oc} (V)	41.9	42	42.2	42.4
Short Circuit Current - I_{sc} (A)	7.17	7.24	7.30	7.37
Maximum Power Voltage (Vmp)	34.4	34.6	34.8	35.0
Maximum Power Current (Imp)	6.77	6.83	6.89	6.98
Power Tolerance (W)	(0,+4.99)			
Maximum System Voltage (V)	1000(TUV), 1000 (UL)			
Maximum Series Fuse Rating (A)	15			

NOCT: Irradiance 800 W/m² ambient temperature 20°C speed:m/s
Power measurement tolerance : +/-3%



* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

Temperature Characteristics

Pmax Temperature Coefficient	-0.41%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

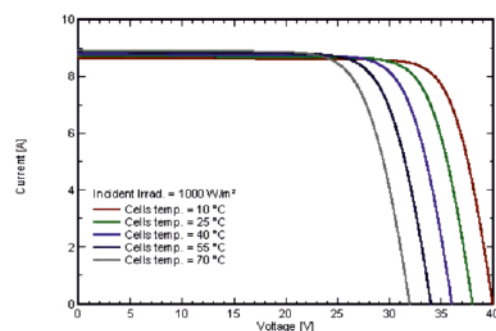
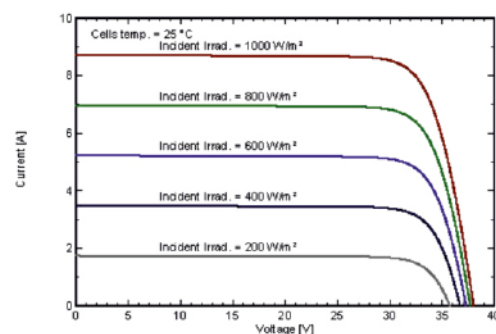
Packing Configuration

Container	20'GP	40'GP	20'GP	40'GP
Pieces per Pallet	21	21	26	26
Pallets per Container	10	22	10	22
Pieces per Container	210	462	260	572

Mechanical Specifications

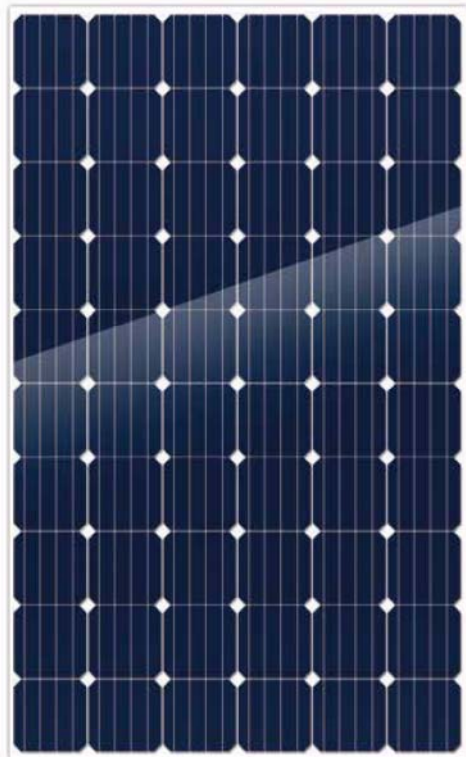
External Dimensions	1956 x 992 x 50 mm	1956 x 992 x 40 mm
Weight	24kg	23kg
Solar Cells	Polycrystalline 156.75 x 156.75mm (72pcs)	Polycrystalline 156.75 x 156.75mm (72pcs)
Front Glass	3.2mm tempered glass, low iron	3.2mm tempered glass, low iron
Frame	Anodized / aluminium alloy	Anodized / aluminium alloy
Junction Box	IP67	IP67
Output Cables	4.0mm ² , cable length: 900 mm	4.0mm ² , cable length: 900 mm
Connector	MC4 Compatible	MC4 Compatible
Mechanical Load	5400 Pa	5400 Pa

I-V Curve (URE-6PB)



URE-6MB-DG SERIES 6 INCH 60 CELLS

265-280w



Marketed by:
UREnergy
USA | UK | AFRICA | DUBAI | INDIA | CHINA | AUSTRALIA

Manufactured by:
SERAPHIM

Rated tire 1 company by **Bloomberg**

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

30
YEARS

linear power
output warranty

INSURANCE

PowerGuard
SPECIALTY INSURANCE SERVICES

SOLAR
INSURANCE & FINANCE

Certifications and standards:



Leading Features



Excellent fire resistance increases safety class.



Frameless structure cuts off the current leakage circuit to avoid PID .



Special encapsulate material, glass as substrate avoids hydrolysis effect, and stable dual-glass structure effectively avoids snail trail.



Solution to withstand harsh environment, glass instead of back sheet as substrate with better resistant to sand, salt mist, ammonia, acid, alkali, etc.



Less maintenance due to frameless structure with less soiling and snow accumulation.



Lower power degradation, more power yield, more returns

URE-6MB-DG SERIES 6 INCH 60 CELLS

Electrical Characteristics (STC)

Module Type (DG)	URE-265-6MB		URE-270-6MB		URE-275-6MB		URE-280-6MB	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power - (Pmp) (W)	265	196	270	200	275	204	280	207
Open Circuit Voltage-V _{oc} (V)	38.50	35.50	38.70	35.70	38.90	35.90	39.10	36.10
Short Circuit Current-I _{sc} (A)	8.81	7.12	8.91	7.20	9.01	7.28	9.11	7.36
Maximum Power Voltage (Vmp)	31.20	29.30	31.40	29.50	31.70	29.70	31.90	29.90
Maximum Power Current (Imp)	8.50	6.71	8.60	6.79	8.69	6.87	8.79	6.95
Module Efficiency STC-nm (%)	16.11		16.42		16.72		17.02	
Power Tolerance (W)	(0,+4.99)							
Maximum System Voltage (V)	1000(TUV)							
Maximum Series Fuse Rating (A)	15							

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;

NOCT : Irradiance 800 W/m² ambient temperature 20° C wind speed : 1m/s;

The module efficiency is calculated by the dimension of module with 2/5mm glasses

Power measurement tolerance : +/-3%

Temperature Characteristics

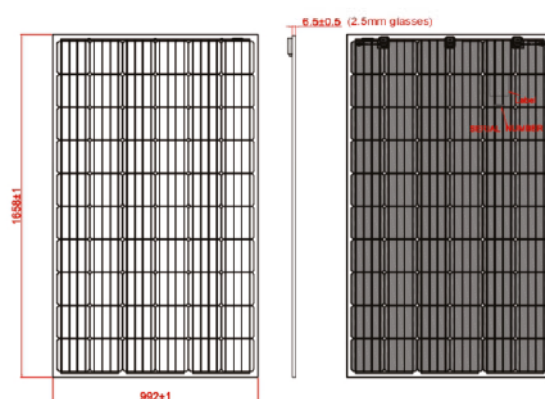
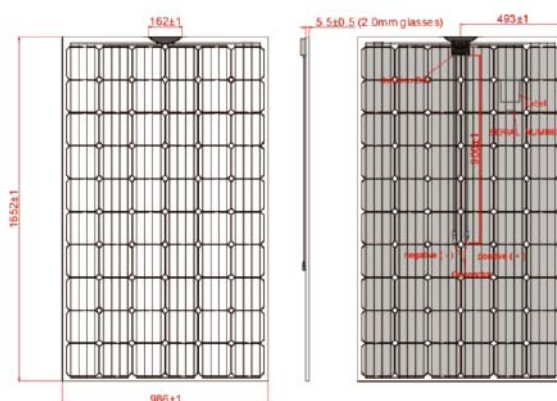
Pmax Temperature Coefficient	-0.40%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.05%/°C

Packing Configuration

	1652 x 986 x 5.5mm (2.0mm glasses)		1658 x 992 x 6.5mm (2.5mm glasses)	
Container	20'GP	40'GP	20'GP	40'GP
Pieces per Pallet	38	38	33	33
Pallets per Container	12	26	12	26
Pieces per Container	456	988	396	858

Mechanical Specifications

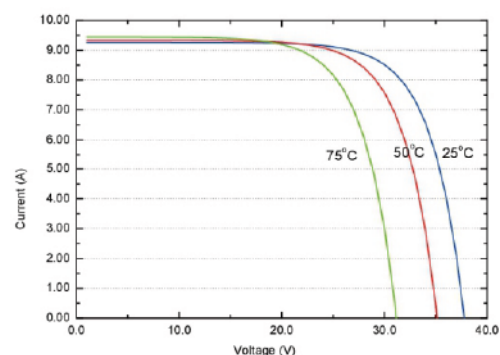
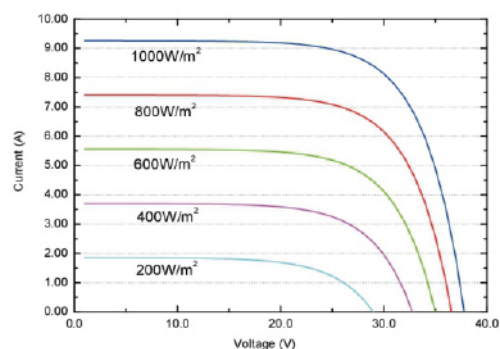
External Dimensions	1652 x 986 x 5.5 mm (2.0mm glasses)	1658 x 992 x 6.5 mm (2.5mm glasses)
Weight	19.0 kg	22.5 kg
Solar Cells	Mono crystalline 156.75 x 156.75mm (60pcs)	Mono crystalline 156.75 x 156.75mm (60pcs)
Front Glass	2.0mm AR tempered glass, low iron	2.5mm AR tempered glass, low iron
Back Glass	2.0mm tempered glass, low iron	2.5mm tempered glass, low iron
Junction Box	IP67	IP67
Output Cables	4.0mm ² , cable length: 900 mm	4.0mm ² , cable length: 355 mm(-), 255mm (+)
Connector	MC4 Compatible	MC4 Compatible
Mechanical Load	2400 Pa	2400 Pa



* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

I-V Curve (URE-270-6MB-DG)



URE-6MB SERIES 6 INCH 60 CELLS

275-290w



Marketed by:
UREnergy®
USA | UK | AFRICA | DUBAI | INDIA | CHINA | AUSTRALIA

Manufactured by:
SERAPHIM®

Rated tire 1 company by **Bloomberg**

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

INSURANCE

PowerGuard
SPECIALTY INSURANCE SERVICES

SOLAR
INSURANCE & FINANCE

Certifications and standards:



Leading Features

Safety



Safety for salt mist corrosion
(IEC61701, tested in Intertek)



Safety for ammonia corrosion
(IEC62716, tested in TÜV SÜD)



Safety for fire risk
(Class C, tested in TÜV SÜD and Rheinland)

Reliability



PID free products, passing TÜV SÜD system voltage durability test



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

URE-6PB SERIES 6 INCH 60 CELLS

Electrical Characteristics (STC)

Module Type	URE-275-6MB	URE-280-6MB	URE-285-6MB	URE-290-6MB
Rated Power at STC (Pmp) (W)	275	280	285	290
Open Circuit Voltage- V_{oc} (V)	38.7	38.9	39.1	39.3
Short Circuit Current- I_{sc} (A)	9.12	9.22	9.33	9.44
Maximum Power Voltage (Vmp)	31.1	31.3	31.5	31.7
Maximum Power Current (Imp)	8.85	8.95	9.05	9.15
Module Efficiency (nm)	16.9	17.21	17.52	17.83

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;
Power measurement tolerance : +/-3%

Electrical Characteristics (NOCT)

Module Type	URE-275-6MB	URE-280-6MB	URE-285-6MB	URE-290-6MB
Maximum Power at NOCT - (Pmp)	204	208	212	215
Open Circuit Voltage- V_{oc} (V)	35.8	36	36.2	36.3
Short Circuit Current - I_{sc} (A)	7.37	7.45	7.54	7.63
Maximum Power Voltage (Vmp)	29.5	29.7	29.9	30
Maximum Power Current (Imp)	6.91	7.01	7.09	7.17
Power Tolerance (W)	(0,+4.99)			
Maximum System Voltage (V)	1000(TUV), 1000 (UL)			
Maximum Series Fuse Rating (A)	20			

NOCT: Irradiance 800 W/m² ambient temperature 20°C speed:m/s
Power measurement tolerance : +/-3%

Temperature Characteristics

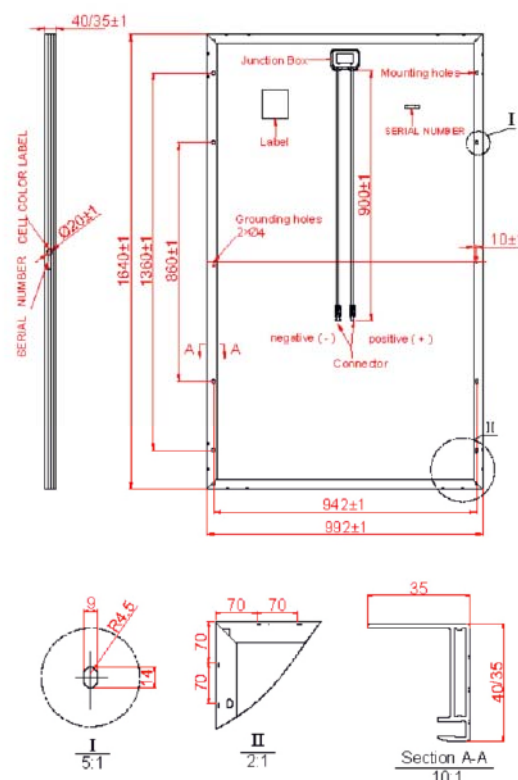
Pmax Temperature Coefficient	-0.41%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Packing Configuration

Container	20'GP	40'GP	20'GP	40'GP
Piecesper Pallet	26	26	30	30
Palletsper Container	12	28	12	28
Piecesper Container	312	728	360	840

Mechanical Specifications

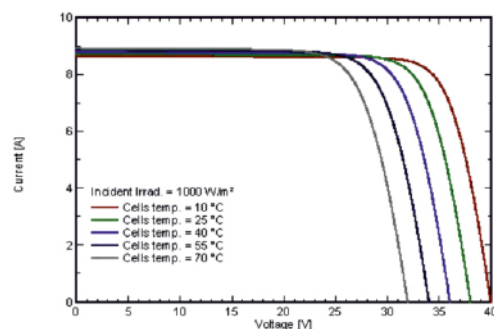
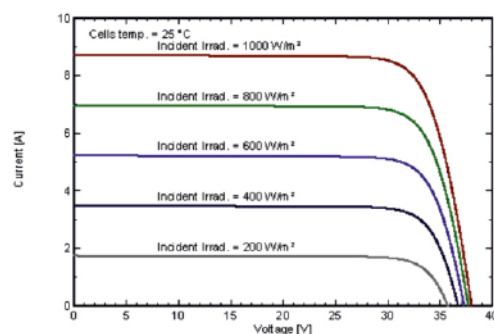
External Dimensions	1640 x 992 x 40 mm	1640 x 992 x 35 mm
Weight	19.0kg	18.5kg
Solar Cells	Mono crystalline 156.75 x 156.75mm (60pcs)	Mono crystalline 156.75 x 156.75mm (60pcs)
Front Glass	3.2mm tempered glass, low iron	3.2mm tempered glass, low iron
Frame	Anodized / aluminium alloy	Anodized / aluminium alloy
Junction Box	IP67	IP67
Output Cables	4.0mm ² , cable length: 900 mm	4.0mm ² , cable length: 900 mm
Connector	MC4 Compatible	MC4 Compatible
Mechanical Load	5400 Pa	5400 Pa



* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

I-V Curve (URE-275-6MB)



URE-6MB-HV SERIES 6 INCH 60 CELLS

280-300w



Certifications and standards:



Marketed by:



Manufactured by:



Rated tire 1 company by **Bloomberg**

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



guarantee on product material



linear power output warranty

INSURANCE



Leading Features

Safety

1500V

Withstand and applicable up to 1500V high system voltage

NEW IEC

Tested and certified according to newest IEC standard IEC61730-1:2016 IEC61730-2:2016



Class C fire safety class

Reliability

PID FREE

PID free products, passing TÜV SÜD system voltage durability test

1st

World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

URE-6MB-HV SERIES 6 INCH 60 CELLS

Electrical Characteristics (STC)

Module Type (HV)	URE-280-6MB	URE-280-6MB	URE-285-6MB	URE-290-6MB	URE-300-6MB
Rated Power at STC (Pmp) (W)	280	285	290	295	300
Open Circuit Voltage- V_{oc} (V)	38.9	39.1	39.3	39.5	39.7
Short Circuit Current- I_{sc} (A)	9.22	9.33	9.44	9.56	9.65
Maximum Power Voltage (Vmp)	31.3	31.5	31.7	31.9	32.1
Maximum Power Current (Imp)	8.95	9.05	9.15	9.25	9.35
Module Efficiency (nm)	17.11	17.41	17.72	18.02	18.33

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;
Power measurement tolerance : +/-3%

Electrical Characteristics (NOCT)

Module Type (HV)	URE-280-6MB	URE-280-6MB	URE-285-6MB	URE-290-6MB	URE-300-6MB
Maximum Power at NOCT-(Pmp)	208	212	215	219	223
Open Circuit Voltage- V_{oc} (V)	36.0	36.2	36.3	36.5	36.7
Short Circuit Current - I_{sc} (A)	7.45	7.54	7.63	7.73	7.82
Maximum Power Voltage (Vmp)	29.7	29.9	30.0	30.1	30.3
Maximum Power Current (Imp)	7.01	7.09	7.17	7.28	7.36
Power Tolerance (W)	(0,+4.99)				
Maximum System Voltage (V)	1500(TUV)				
Maximum Series Fuse Rating (A)	20				

NOCT: Irradiance 800 W/m² ambient temperature 20°C speed:m/s
Power measurement tolerance : +/-3%

Temperature Characteristics

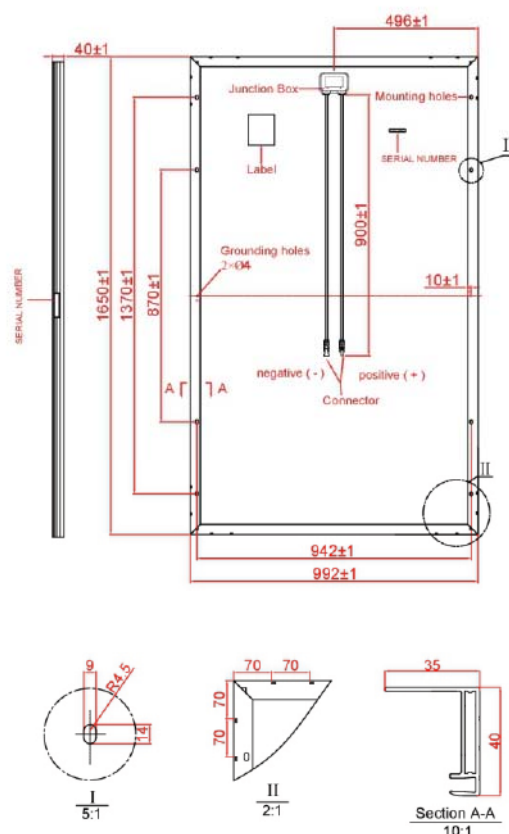
Pmax Temperature Coefficient	-0.40%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Packing Configuration

	1650 x 992 x 40mm	
Container	20'GP	40'GP
Piecesper Pallet	26	26
Palletsper Container	12	28
Piecesper Container	312	728

Mechanical Specifications

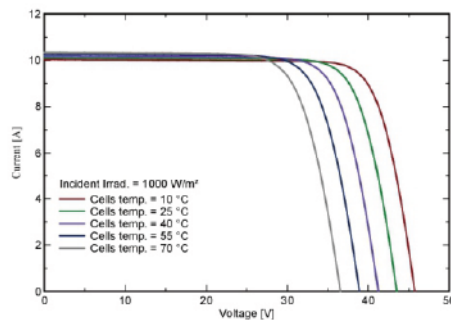
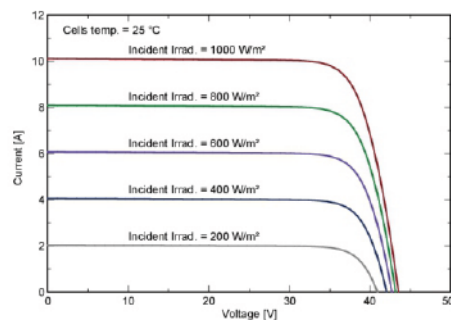
External Dimensions	1650 x 992 x 40 mm
Weight	19.0kg
Solar Cells	Mono crystalline 156.75 x 156.75mm (60pcs)
Front Glass	3.2mm tempered glass, low iron
Frame	Anodized / aluminium alloy
Junction Box	IP67
Output Cables	4.0mm ² , cable length: 900 mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa



* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

I-V Curve (URE-280-6MB-HV)



URE-6MB SERIES 6 INCH 60 CELLS

295-305w



Marketed by:

UREnergy®

USA | UK | AFRICA | DUBAI | INDIA | CHINA | AUSTRALIA

Manufactured by:

SERAPHIM®

Rated tire 1 company by **Bloomberg**

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

INSURANCE

PowerGuard
 SPECIALTY INSURANCE SERVICES

SOLAR
 INSURANCE & FINANCE

Certifications and standards:



Leading Features

Safety



Safety for salt mist corrosion
 (IEC61701, tested in Intertek)



Safety for ammonia corrosion
 (IEC62716, tested in TÜV SÜD)



Safety for fire risk
 (Class C, tested in TÜV SÜD and Rheinland)

Reliability



PID free products, passing TÜV SÜD system voltage durability test



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

URE-6PB SERIES 6 INCH 60 CELLS

Electrical Characteristics (STC)

Module Type	URE-295-6MB	URE-300-6MB	URE-305-6MB
Rated Power at STC (Pmp) (W)	295	300	305
Open Circuit Voltage- V_{oc} (V)	39.5	39.7	39.9
Short Circuit Current- I_{sc} (A)	9.56	9.65	9.76
Maximum Power Voltage (Vmp)	31.9	32.1	32.3
Maximum Power Current (Imp)	9.25	9.35	9.45
Module Efficiency (nm)	18.13	18.44	18.75

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;
Power measurement tolerance : +/-3%

Electrical Characteristics (NOCT)

Module Type	URE-295-6MB	URE-300-6MB	URE-305-6MB
Maximum Power at NOCT - (Pmp)	219	223	226
Open Circuit Voltage- V_{oc} (V)	36.5	36.7	36.8
Short Circuit Current - I_{sc} (A)	7.73	7.82	7.91
Maximum Power Voltage (Vmp)	30.1	30.3	30.4
Maximum Power Current (Imp)	7.28	7.36	7.44
Power Tolerance (W)	(0,+4.99)		
Maximum System Voltage (V)	1000(TUV), 1000 (UL)		
Maximum Series Fuse Rating (A)	20		

NOCT: Irradiance 800 W/m² ambient temperature 20°C speed:m/s
Power measurement tolerance : +/-3%

Temperature Characteristics

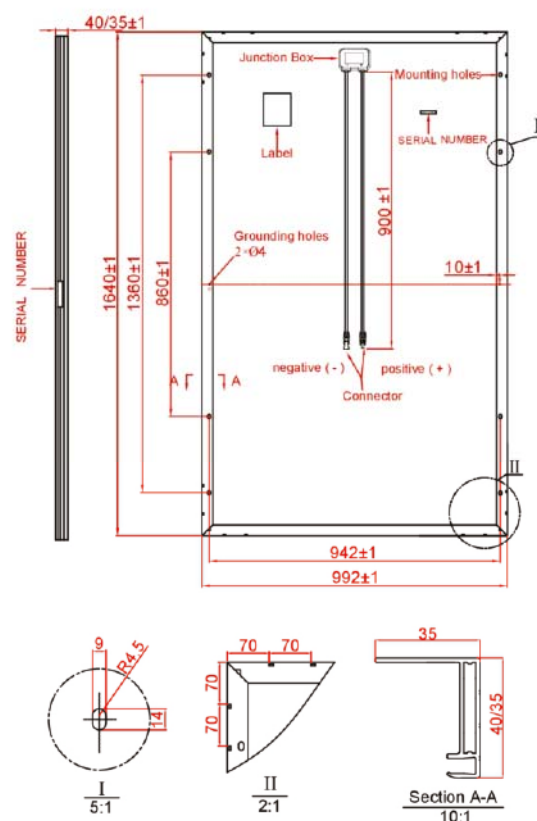
Pmax Temperature Coefficient	-0.41%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Packing Configuration

Container	20'GP	40'GP	20'GP	40'GP
Piecesper Pallet	26	26	30	30
Palletsper Container	12	28	12	28
Piecesper Container	312	728	360	840

Mechanical Specifications

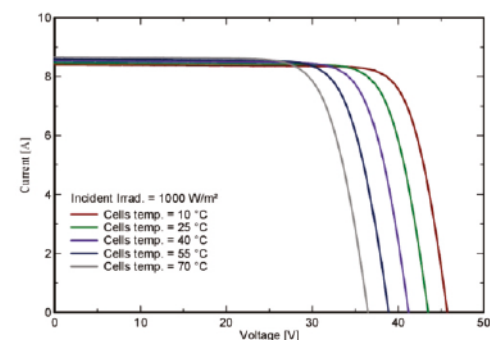
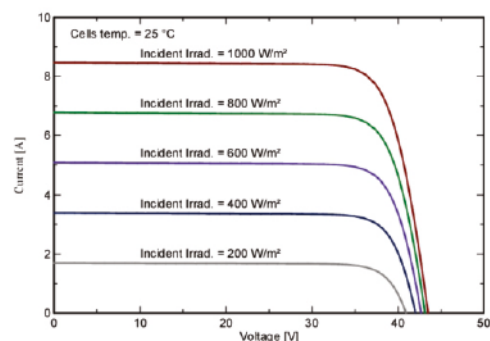
External Dimensions	1640 x 992 x 40 mm	1640 x 992 x 35 mm
Weight	19.0kg	18.5kg
Solar Cells	Mono crystalline 156.75 x 156.75mm (60pcs)	Mono crystalline 156.75 x 156.75mm (60pcs)
Front Glass	3.2mm tempered glass, low iron	3.2mm tempered glass, low iron
Frame	Anodized / aluminium alloy	Anodized / aluminium alloy
Junction Box	IP67	IP67
Output Cables	4.0mm ² , cable length: 900 mm	4.0mm ² , cable length: 900 mm
Connector	MC4 Compatible	MC4 Compatible
Mechanical Load	5400 Pa	5400 Pa



* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

I-V Curve (URE-275-6MB)



URE-6MA-DG SERIES 6 INCH 72 CELLS

325-340w



Marketed by:



USA | UK | AFRICA | DUBAI | INDIA | CHINA | AUSTRALIA

Manufactured by:



Rated tire 1 company by **Bloomberg**

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



guarantee on product material



linear power output warranty

INSURANCE



SPECIALTY INSURANCE SERVICES



INSURANCE & FINANCE

Certifications and standards:



Leading Features



Excellent fire resistance increases safety class.



Frameless structure cuts off the current leakage circuit to avoid PID .



Special encapsulate material, glass as substrate avoids hydrolysis effect, and stable dual-glass structure effectively avoids snail trail.



Solution to withstand harsh environment, glass instead of back sheet as substrate with better resistant to sand, salt mist, ammonia, acid, alkali, etc.



Less maintenance due to frameless structure with less soiling and snow accumulation.



Lower power degradation, more power yield, more returns

URE-6MA-DG SERIES 6 INCH 72 CELLS

Electrical Characteristics (STC)

Module Type (DG)	URE-325-6MA		URE-330-6MA		URE-335-6MA		URE-340-6MA	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power - (Pmp) (W)	325	241	330	244	335	248	340	252
Open Circuit Voltage-V _{oc} (V)	46.50	42.90	46.70	43.10	46.90	43.30	47.10	43.50
Short Circuit Current-I _{sc} (A)	8.92	7.21	9.01	7.28	9.09	7.34	9.16	7.47
Maximum Power Voltage (Vmp)	37.80	35.40	38.00	35.60	38.20	35.80	38.50	36.10
Maximum Power Current (Imp)	8.61	6.80	8.69	6.87	8.77	6.93	8.84	6.99
Module Efficiency STC-nm (%)	16.56		16.82		17.07		17.33	
Power Tolerance (W)	(0,+4.99)							
Maximum System Voltage (V)	1000(TUV)							
Maximum Series Fuse Rating (A)	15							

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;

NOCT : Irradiance 800 W/m² ambient temperature 20° C wind speed : 1m/s;

The module efficiency is calculated by the dimension of module with 2/5mm glasses

Power measurement tolerance : +/-3%

Temperature Characteristics

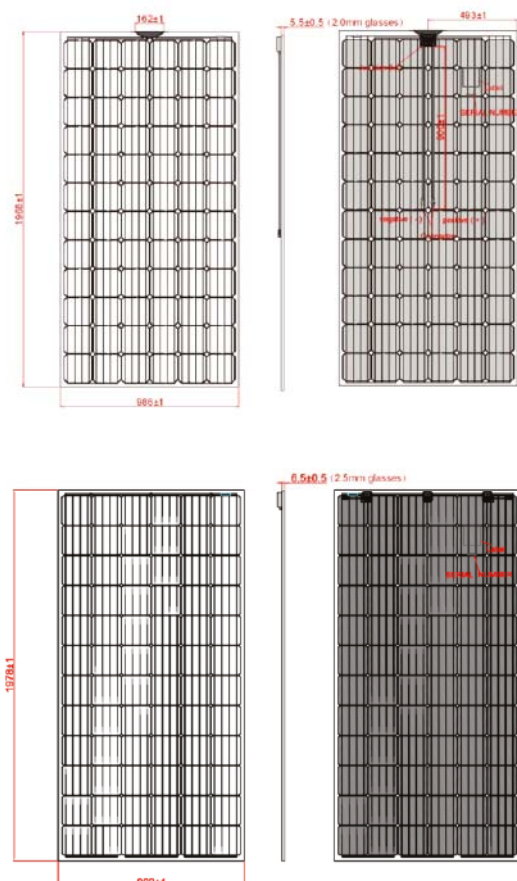
P _{max} Temperature Coefficient	-0.40%/°C
V _{oc} Temperature Coefficient	-0.32%/°C
I _{sc} Temperature Coefficient	+0.05%/°C

Packing Configuration

	1968 x 986 x 5.5mm (2.0mm glasses)		1978 x 992 x 6.5mm (2.5mm glasses)	
Container	20'GP	40'GP	20'GP	40'GP
Pieces per Pallet	33	33	33	33
Pallets per Container	10	22	10	22
Pieces per Container	330	726	330	726

Mechanical Specifications

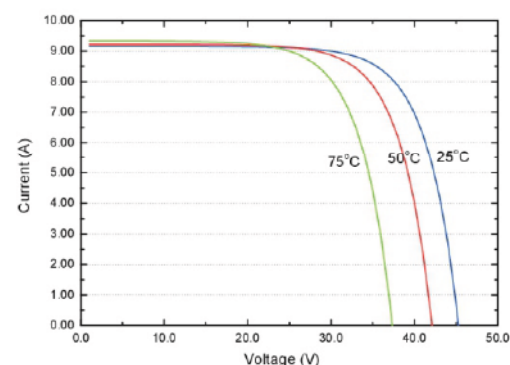
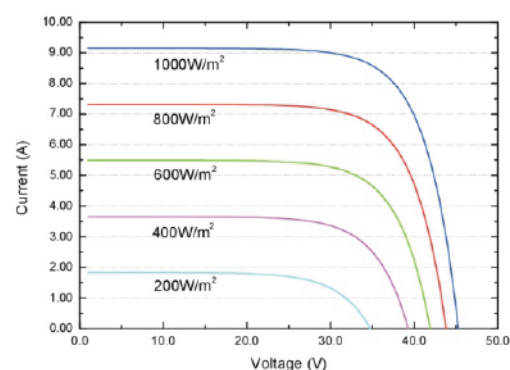
External Dimensions	1968 x 986 x 5.5 mm (2.0mm glasses)	1978 x 992 x 6.5 mm (2.5mm glasses)
Weight	23.0 kg	28.5 kg
Solar Cells	Mono crystalline 156.75 x 156.75mm (60pcs)	Mono crystalline 156.75 x 156.75mm (60pcs)
Front Glass	2.0mm AR tempered glass, low iron	2.5mm AR tempered glass, low iron
Back Glass	2.0mm tempered glass, low iron	2.5mm tempered glass, low iron
Junction Box	IP67	IP67
Output Cables	4.0mm ² , cable length: 900 mm	4.0mm ² , cable length: 355 mm(-), 255mm (+)
Connector	MC4 Compatible	MC4 Compatible
Mechanical Load	2400 Pa	2400 Pa



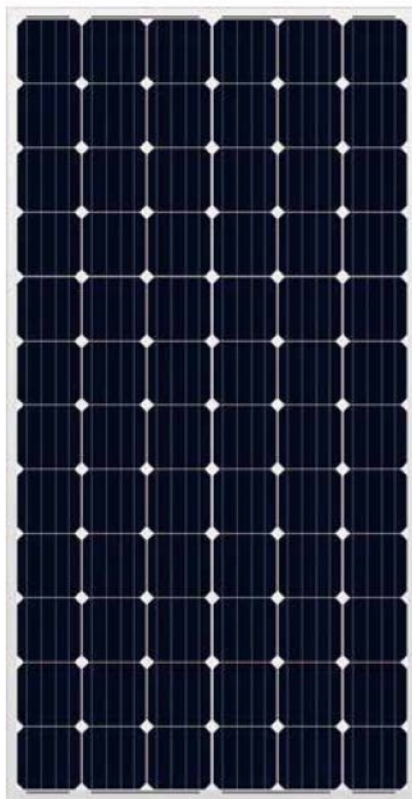
* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

I-V Curve (URE-325-6MA-DG)



330-345w



Marketed by:



Manufactured by:



Rated tire 1 company by **Bloomberg**

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



guarantee on product material



linear power output warranty

INSURANCE



Certifications and standards:



Leading Features

Safety



Safety for salt mist corrosion (IEC61701, tested in Intertek)



Safety for ammonia corrosion (IEC62716, tested in TÜV SÜD)



Safety for fire risk (Class C, tested in TÜV SÜD and Rheinland)

Reliability



PID free products, passing TÜV SÜD system voltage durability test



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

URE-6MA SERIES 6 INCH 72 CELLS

Electrical Characteristics (STC)

Module Type	URE-330-6MA	URE-335-6MA	URE-340-6MA	URE-345-6MA
Rated Power at STC (Pmp) (W)	330	335	340	345
Open Circuit Voltage- V_{oc} (V)	46.1	46.4	46.6	46.8
Short Circuit Current- I_{sc} (A)	9.14	9.23	9.32	9.43
Maximum Power Voltage (Vmp)	37.3	37.5	37.7	37.9
Maximum Power Current (Imp)	8.85	8.94	9.02	9.11
Module Efficiency (nm)	17.01	17.26	17.52	17.78

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;
Power measurement tolerance : +/-3%

Electrical Characteristics (NOCT)

Module Type	URE-330-6MA	URE-335-6MA	URE-340-6MA	URE-345-6MA
Maximum Power at NOCT - (Pmp)	245	249	252	256
Open Circuit Voltage- V_{oc} (V)	42.6	42.8	43	43.2
Short Circuit Current - I_{sc} (A)	7.45	7.53	7.59	7.68
Maximum Power Voltage (Vmp)	35.2	35.3	35.5	35.6
Maximum Power Current (Imp)	6.96	7.05	7.1	7.19
Power Tolerance (W)	(0,+4.99)			
Maximum System Voltage (V)	1000(TUV)			
Maximum Series Fuse Rating (A)	20			

NOCT: Irradiance 800 W/m² ambient temperature 20°C speed:m/s
Power measurement tolerance : +/-3%

Temperature Characteristics

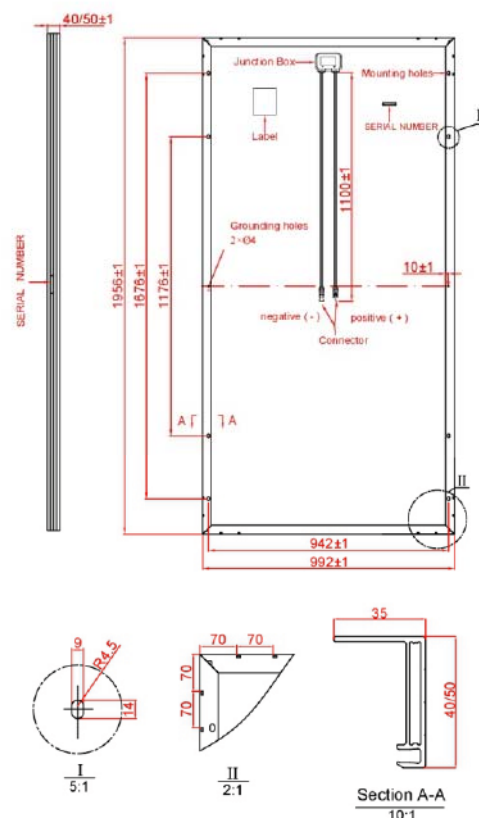
Pmax Temperature Coefficient	-0.41%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Packing Configuration

Container	20'GP	40'GP	20'GP	40'GP
Piecesper Pallet	21	21	26	26
Palletsper Container	10	22	10	22
Piecesper Container	210	462	260	572

Mechanical Specifications

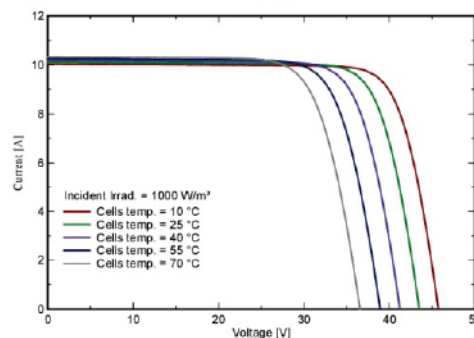
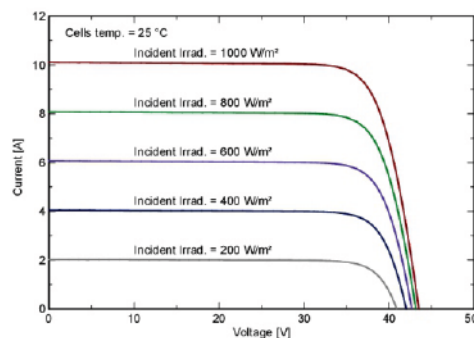
External Dimensions	1640 x 992 x 50 mm	1640 x 992 x 40 mm
Weight	24 kg	23 kg
Solar Cells	Mono crystalline 156.75 x 156.75mm (60pcs)	Mono crystalline 156.75 x 156.75mm (60pcs)
Front Glass	3.2mm tempered glass, low iron	3.2mm tempered glass, low iron
Frame	Anodized / aluminium alloy	Anodized / aluminium alloy
Junction Box	IP67	IP67
Output Cables	4.0mm ² , cable length: 900 mm	4.0mm ² , cable length: 900 mm
Connector	MC4 Compatible	MC4 Compatible
Mechanical Load	5400 Pa	5400 Pa



* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

I-V Curve (URE-330-6MA)



URE-6MA-HV SERIES 6 INCH 72 CELLS

350-360w



Marketed by:



Manufactured by:



Rated tire 1 company by **Bloomberg**

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



guarantee on product material



linear power output warranty

INSURANCE



Certifications and standards:



Leading Features

Safety



Withstand and applicable up to 1500V high system voltage



Tested and certified according to newest IEC standard IEC61730-1:2016 IEC61730-2:2016



Class C fire safety class

Reliability



PID free products, passing TÜV SÜD system voltage durability test



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



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Top rank in Photon yield measurement

URE-6MA-HV SERIES 6 INCH 72 CELLS

Electrical Characteristics (STC)

Module Type	URE-350-6MA-HV	URE-355-6MA-HV	URE-360-6MA-HV
Rated Power at STC (Pmp) (W)	350	355	360
Open Circuit Voltage- V_{oc} (V)	47	47.2	47.4
Short Circuit Current- I_{sc} (A)	9.51	9.61	9.70
Maximum Power Voltage (Vmp)	38.1	38.3	38.5
Maximum Power Current (Imp)	9.19	9.27	9.36
Module Efficiency (nm)	17.91	18.17	18.42

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;
Power measurement tolerance : +/-3%

Electrical Characteristics (NOCT)

Module Type	URE-350-6MA-HV	URE-355-6MA-HV	URE-360-6MA-HV
Maximum Power at NOCT - (Pmp)	260	263	267
Open Circuit Voltage- V_{oc} (V)	43.4	43.6	43.8
Short Circuit Current - I_{sc} (A)	7.68	7.75	7.84
Maximum Power Voltage (Vmp)	35.8	35.9	36.1
Maximum Power Current (Imp)	7.27	7.33	7.40
Power Tolerance (W)	(0,+4.99)		
Maximum System Voltage (V)	1500(TUV)		
Maximum Series Fuse Rating (A)	20		

NOCT: Irradiance 800 W/m² ambient temperature 20°C speed:m/s
Power measurement tolerance : +/-3%

Temperature Characteristics

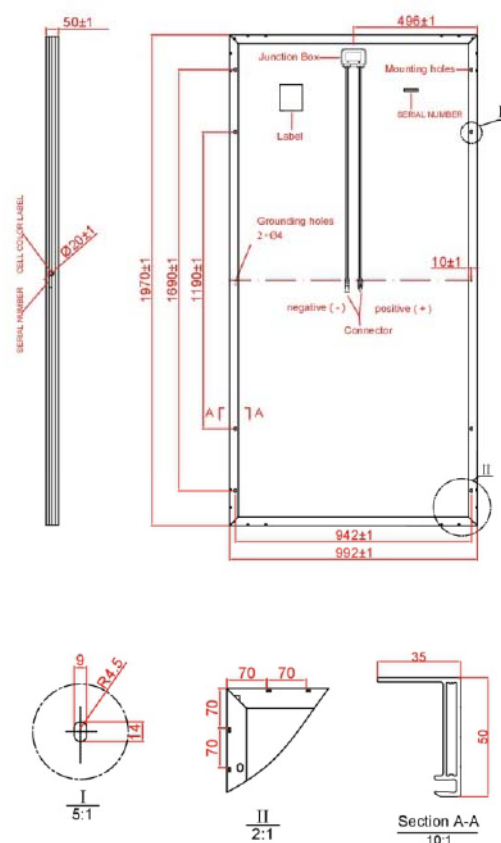
Pmax Temperature Coefficient	-0.40%/°C
Voc Temperature Coefficient	-0.32%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Packing Configuration

Container	20'GP (1970x992x50mm)	40'GP (1970x992x50mm)
Piecesper Pallet	21	21
Palletsper Container	10	22
Piecesper Container	210	462

Mechanical Specifications

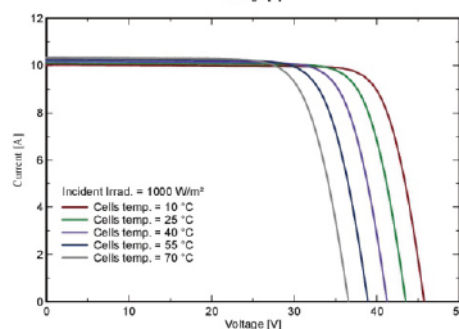
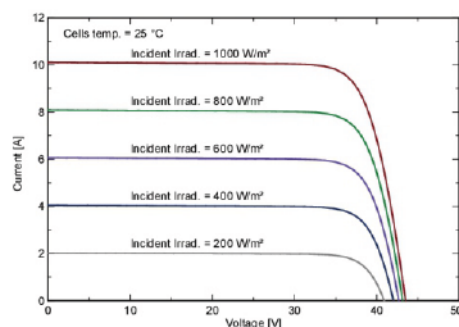
External Dimensions	1670 x 992 x 50 mm
Weight	24.0kg
Solar Cells	Mono crystalline 156.75 x 156.75mm (72pcs)
Front Glass	3.2mm tempered glass, low iron
Frame	Anodized / aluminium alloy
Junction Box	IP67
Output Cables	4.0mm ² , cable length: 900 mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa



* All Dimensions in mm

* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact UR ENERGY.

I-V Curve (URE-350-6MA)



URE-6MA SERIES 6 INCH 72 CELLS

350-360w



Marketed by:



Manufactured by:



Rated tire 1 company by **Bloomberg**

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

INSURANCE



Certifications and standards:



Leading Features

S_{afety}



Safety for salt mist corrosion
(IEC61701, tested in TÜV SÜD)



Safety for ammonia corrosion
(IEC62716, tested in TÜV SÜD)



Safety for fire risk
(Class C, tested in TÜV SÜD and Rheinland)

R_{eliability}



PID free products, passing TÜV SÜD
system voltage durability test



World 1st company to pass "Thresher
Test" and "On-site Power
Measurement Validation" certificate



Bankable products

P_{erformance}



Outstanding power output capability at
low irradiance



Triple 100% Electroluminescence (EL)
tests minimize breakage rate



Top rank in Photon yield measurement

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

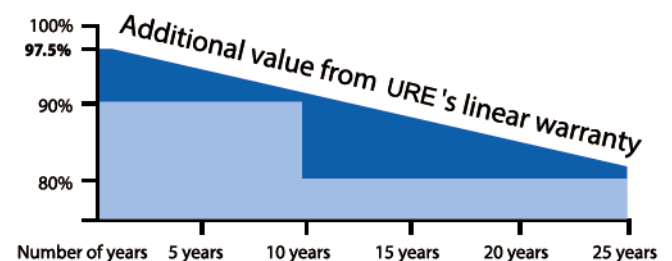
05 Years Product Warranty

10 Years limited power warranty for 90% NP

15 Years limited power warranty for 85% NP

25 Years limited power warranty for 80% NP

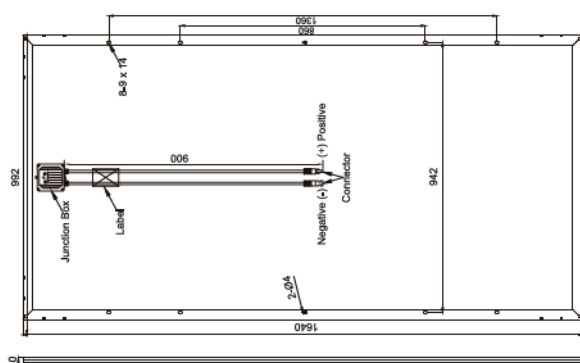
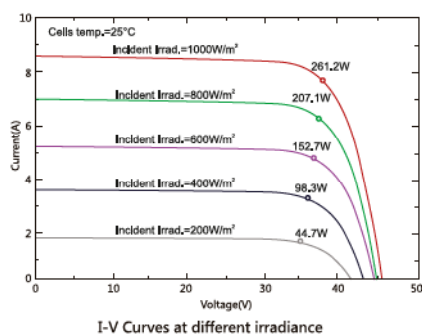
URE's **NEW** linear performance warranty



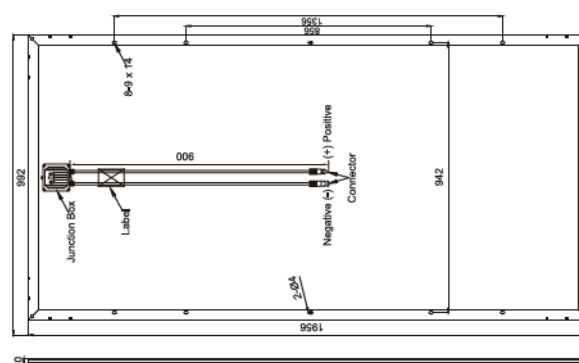
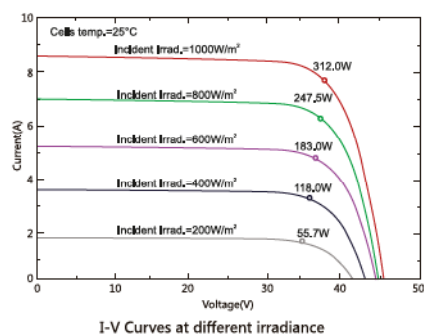
URE-Poly Solar Panels for Made in India requirement

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

URE-Poly Solar Panels for Made in India requirement

290-320W



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



guarantee on product material



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



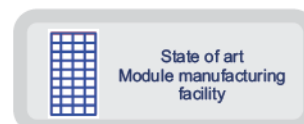
Excellent Performance in low light



Sand and Dust Storm Resistant



IEC 61215, IEC 61730 (I & II) Certified

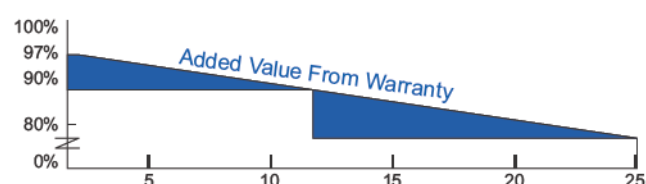


State of art Module manufacturing facility

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 P _m (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, V _{mp} (V)*	36.40	36.50	36.60	37.00	37.50	37.80	38.1	38. 4
Current at Maximum Power, I _{mp} (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/m ² 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

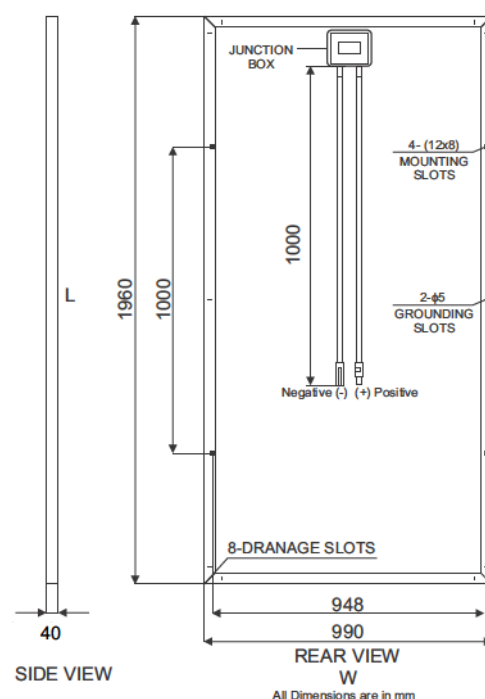
Solar Cell type	Polycrystalline
Front Cover (Material / Thickness)	High transmission low iron 3.2mm tempered glass
Encapsulate	EVA (Ethylene Vinyl Acetate)
Frame Material	Anodized aluminium frame with twin wall profile (6036-T6)
Junction Box (Protection degree)	3 bypass diodes,IP-67,TUV+UL 1000V
Cable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

Temperature Characteristics

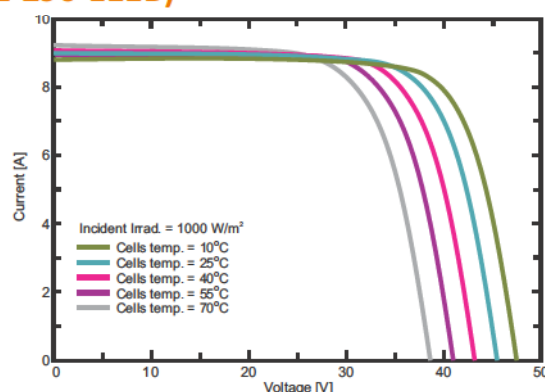
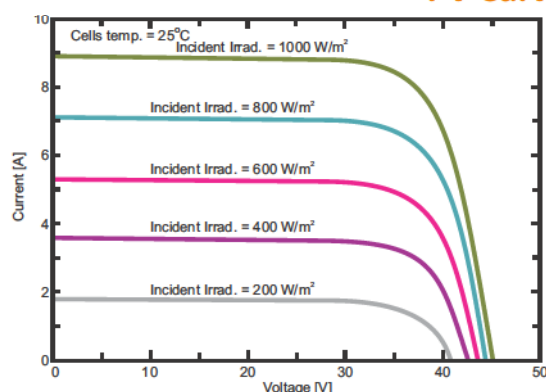
P _{max} Temperature Coefficient	-0.04%/°C
V _{oc} Temperature Coefficient	-0.32%/°C
I _{sc} Temperature Coefficient	+0.43%/°C
Nominal Operating Cell Temperature (NOCT)	47°C ± 2°C
Operating Temperature	-40°C - +85°C

Packaging Configuration

No. of modules per 40 feetContainer	550 Nos
No. of modules per 20 feetContainer	125 Nos



I-V Curve (URE-290-E11B)



URE Single Phase Grid Tied Inverter

LEADING FEATURES

- ▲ Compact and lightweight, visually pleasing for domestic environment
- ▲ 70V-500V input voltage range-ultra low startup
- ▲ Max. efficiency. Over 96.0-97.8%
- ▲ Dual MPPT design with Precise MPPT algorithm
- ▲ IP65 rated for external installation
- ▲ RS 485, WiFi/GPRS (optional) interface
- ▲ Multiple protection functions
- ▲ WiFi monitoring available - iphone and android app available
- ▲ 5 years standard warranty, 10 years optional upgrade. (Extended Warranty)



Single Phase Inverter



EMTEK

Product Range :-

- ▲ URE-1K-2G
- ▲ URE-1.5k-2G
- ▲ URE-2k - 2G
- ▲ URE-2.5k - 2G
- ▲ URE-3k - 2G
- ▲ URE-3.6k - 2G
- ▲ URE-4k - 2G
- ▲ URE-4.6k - 2G
- ▲ URE-5k - 2G



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Data Sheet

Model	URE 1k- 2G	URE 1.5k- 2G	URE 2k- 2G	URE 2.5k- 2G	URE 3k- 2G	URE 3.6k- 2G	URE 4k- 2G	URE 4.6k- 2G	URE 5k- 2G
Energy Source	PV								
Input side									
Max. DC input voltage (V)	450				600				
Start up DC input voltage (V)	60				120				
MPPT operating range (V)	50-400				100-500				
Rated DC voltage (V)	200				440				
Max. DC input current (A)	10			10+10			15+15		
Number of MPPT/ Max strings per MPPT	1/1			2/2	2/1	2/2			
Output side									
Rated output power (KW)	1	1.5	2	2.5	3	3.6	4	4.6	5
Max. transient power (KW)	1.1	1.7	2.2	2.8	3.3	4	4.4	5	5
Rated AC grid voltage (V)	230								
AC grid voltage range (V)	180-270 (Adjustable)								
operating phase	Single								
Rated AC grid output current (A)	4.3	6.5	8.7	10.9	13	15.7	17.4	20	21.7
Max. AC output current (A)	6.1	9.2	12.2	13.3	15.7	16	21	23.8	23.8
Output power factor	>0.99			0.8 leading ... 0.8 lagging					
Reactive power control	0.8/0.9/1 Optional								
Total Harmonic Distortion (THD)	< 1.5%			< 2.3%					
DC injection current (mA)	<20								
Rated grid frequency (Hz)	47-52Hz or 57-62 Hz (adjustable)								
Efficiency									
Max efficiency	>96.7%	>96.7%	>96.7%	>97.5%			97.8%		
Euro efficiency	>96.2%	>96.2%	>96.2%	>96.8%			97%		
MPPT efficiency	>99.9%								
Protection									
Temperature protection	Yes								
DC reverse-polarity protection	Yes								
AC short circuit protection	Yes								
AC output overcurrent protection	Yes								
Output overvoltage protection - Varistor	Yes								
Ground fault monitoring	Yes								
Grid monitoring	Yes								
Islanding protection	Yes								
Integrated DC switch	Optional								
General data									
Size (mm)	270W * 435H*105D			339W * 565H*172.5D					
Weight (KG)	5.2			12	13.8		15.8		
Topology	Transformerless								
Internal consumption	<1W (Night)								
Running temperature	-25°C ~ 60°C								
Ingress protection	Ip65								
Operating range utility frequency (Hz)	47-52 or 57-62(adjustable)								
Noise emission (typical)	<30 dBA								
Cooling concept	Natural convection								
Max. operating altitude without derating	4000m								
Designed lifetime	>20 years								
Utility monitoring	Islanding protection Vac, Fac, in accordance with UL 1741, G83/2, G59/2, AS4777, VDE -0126-1-1								
Operating surroundings humidity	0~100%								
EMC	EN61000-6-1:2007				EN61000-6-3:2007				
Features									
DC connection	Original MC 4 Connector								
AC connection	IP67 rated plug								
Display	LCD, 2×20 Z								
Interface	WiFi / GPRS (Optional)								
Warranty	5-10 years								

*With Technical Expertise and State of the art manufacturing facilities, In case of Bulk requirement, U R Energy can Provide customized products as per specific requirements.

URE Single Phase Mini Series Grid Tied Inverter

LEADING FEATURES

- ▲ Compact and lightweight, visually pleasing for domestic environment
- ▲ 50V-400V input voltage range-ultra low startup
- ▲ Max. efficiency Over 96.7%
- ▲ Precise MPPT algorithm
- ▲ IP65 rated for external installation
- ▲ RS 485, WiFi/GPRS (optional) interface
- ▲ Multiple protections levels
- ▲ WiFi monitoring available - iphone and android app available
- ▲ 5 years standard warranty, 10 years optional upgrade. (Extended Warranty)



Single Phase Inverter



Product Range :-

- ▲ URE Mini 700
- ▲ URE Mini 1000
- ▲ URE Mini 1500
- ▲ URE Mini 2000
- ▲ URE Mini 2500



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Data Sheet

Model	URE Mini 700	URE Mini 1000	URE Mini 1500	URE Mini 2000	URE Mini 2500
Energy Source	PV				
Input Side (DC)					
Max. input power	0.9kW	1.2kW	1.8kW	2.4kW	3kW
Max. input voltage	450v			500v	
Start-up input voltage	60V				
MPPT voltage range	50-400V				
Max. input current	10A				
MPPT number/Max. input strings number	1/1				
Output Side (AC)					
Rated output power	0.7kW	1kW	1.5kW	2kW	2.5kW
Max. transient power	0.8kW	1.1kW	1.65kW	2.2kW	2.5kW
Rated grid voltage	220/230/240V				
Grid voltage range	180~270V (adjustable)				
Rated grid frequency	50/60Hz				
Operating phase	Single				
Rated output current (A)	3	4.3	6.5	8.7	10.9
Max. output current (A)	4.4	6.1	9.2	12.2	13.9
Power factor	> 0.99				
Total harmonic distortion (THDi)	<3%				
DC injection current	<20mA				
Grid frequency range	47-52Hz or 57-62Hz(adjustable)				
Efficiency					
Max. efficiency	96.7%				
EU efficiency	96.2%				
MPPT efficiency	99.9%				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Output over voltage protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Grid monitoring	Yes				
Islanding protection	Yes				
Temperature protection	Yes				
Integrated DC switch	Optional				
General Data					
Dimensions	270W*433H*105D(mm)				
Weight	5.2kg		5.6kg		
Topology	Transformerless				
Self consumption	<1W(Night)				
Operating ambient temperature range	-25°C~60°C				
Ingress protection	IP65				
Noise emission(typical)	<30 dBA				
Cooling concept	Natural convection				
Max. operation altitude	4000m				
Designed lifetime	>20 Years				
Grid connection standard	EN50438, G83/2,AS4777,VDE0126-1-1,IEC61727				
Relative humidity	0~100%				
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/-2; AS3100				
Features					
DC connection	MC4 Mateable				
AC connection	IP67 rated plug				
Display	LCD, 2 x 20 Z.				
Interface	RS 485, WiFi/GPRS (optional)				
Warranty	5~10 Years				

*With Technical Expertise and State of the art manufacturing facilities, In case of Bulk requirement, U R Energy can Provide customized products as per specific requirements.

URE Single Phase Mini 4G Series Grid Tied Inverter

LEADING FEATURES

- ⬆ High switch frequency technology-Smaller, smarter
- ⬆ DRM integrated, fully comply with AS4777.2:2015
- ⬆ Compact and lightweight, visually pleasing
- ⬆ 50V-600V input voltage range-ultra low startump
- ⬆ Over 97.5% Max efficiency
- ⬆ Precise MPPT algorithm
- ⬆ IP65 rated for external installation
- ⬆ RS 485, WiFi/GPRS (optional) interface
- ⬆ Multiple protections levels
- ⬆ WiFi monitoring available - iphone and android app available
- ⬆ 5 years standard warranty, 10 years optional upgrade. (Extended Warranty)



Mini 4G Series Inverter



Product Range :-

- ⬆ URE Mini 700-4G
- ⬆ URE Mini 1000-4G
- ⬆ URE Mini 1500-4G
- ⬆ URE Mini 2000-4G
- ⬆ URE Mini 2500-4G
- ⬆ URE Mini 3000-4G
- ⬆ URE Mini 3600-4G



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Data Sheet

Model	URE-mini-700-4G	URE-mini-1000-4G	URE-mini-1500-4G	URE-mini-2000-4G	URE-mini-2500-4G	URE-mini-3000-4G	URE-mini-3600-4G
Energy Source	PV						
Input Side(DC)							
Max. DC input power(kW)	0.9	1.2	1.8	2.3	3	3.5	4
Max. DC input voltage(V)	600						
Start-up voltage(V)	60			90			
MPPT voltage range(V)	50-500			80-500			
Max. input current(A)	11						
MPPT number/Max input strings number	1/1						
Output Side (AC)							
Rated output power(kW)	0.7	1	1.5	2	2.5	3	3.6
Max. apparent output power(kVA)	0.8	1.1	1.7	2.2	2.8	3.3	3.6
Max. output power(kW)	0.8	1.1	1.7	2.2	2.8	3.3	3.6
Rated grid voltage(V)	230						
Grid voltage range(V)	160-285						
Rated grid frequency(Hz)	50/60						
Operation phase	Single						
Rated grid output current(A)	3.0	4.3	6.5	8.7	10.9	13	16
Max. output current(A)	4.4	5.2	8.1	10.5	13.3	15.7	16
Power Factor (at rated output power)	0.8 leading ... 0.8 lagging						
THDi (at rated output power)	<1.5%						
DC injection current(mA)	<20						
Grid frequency range(Hz)	47-52or 57-62						
Efficiency							
Max. efficiency	97.2%				97.5%		
EU efficiency	96.5%				96.8%		
MPPT efficiency	>99.5%						
Protection							
DC reverse-polarity protection	Yes						
Short circuit protection	Yes						
Output over current protection	Yes						
Output over voltage protection	Yes						
Insulation resistance monitoring	Yes						
Residual current detection	Yes						
Surge protection	Yes						
Islanding protection	Yes						
temperature protection	Yes						
Integrated DC switch	Optional						
General Data							
Dimensins(mm)	310W*373H*160D (mm)						
Weight(kg)	7.4				7.7		
Topology	Transformerless						
Self consumption (night)	<1W(Night)						
Operating ambient temperature range	-25~60℃						
Ingress protection	Ip65						
Noise emission{typical}	<20 dBA						
Cooling concept	Natural Convection						
Max.operation altitude	4000m						
Designed lifetime	>20 Years						
Grid connection standard	EN50438, G83/2, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105						
Relative humidity	0~100%						
Safty/EMC standard	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3						
Features							
DC connection	MC-4 mateable						
AC connection	Ip67 rated plug						
Display	LCD, 2×20 Z.						
Communication connections	4 pins RS485 connector						
Warranty	5 years standard (extend to 20 years)						

LEADING FEATURES

- ▲ Compact, light weight & easy to install
- ▲ 200-800V input voltage range-ultra low startup
- ▲ Max. efficiency. Over 98.2-98.6%
- ▲ Precise MPPT algorithm with Four MPPT design
- ▲ IP65, visually pleasing for domestic environment
- ▲ RS 485, WiFi/GPRS (optional) interface
- ▲ Multiple protections levels
- ▲ WiFi monitoring available - iphone and android app available
- ▲ 5 years standard warranty, 10 years optional upgrade. (Extended Warranty)



Three Phase Inverter



Product Range :-

- ▲ URE-6K (6kW)
- ▲ URE-10K (10kW)
- ▲ URE-15K (15kW)
- ▲ URE-20K (20kW)
- ▲ URE-25K (25kW)
- ▲ URE-30K (30kW)
- ▲ URE-36K-HV (36kW)
- ▲ URE-40K-HV (40kW)



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Data Sheet

Model	URE-6k	URE-10k	URE-15k	URE-20k	URE-25k	URE-30k	URE-33k	URE-36k-HV	URE-40k-HV
Energy Source	PV								
Input side									
Max. input power (kW)	6.9	11.5	16.5	23kW	28kW	34kW	46kW	41kW	48kW
Max. input voltage (V)	1000								
Start up input voltage (V)	330			350V					
MPPT voltage range (V)	200-800							200-1000	
Max. input current (A)	15+15	18+18	18+18	18+18+18+18					
Number of MPPT/ Max strings as per MPPT	2/2	2/4	2/4	4/8					
Output side									
Rated output power (KW)	6	10	15	20kW	25kW	30kW	33kW	36kW	40kW
Max. transient power (KW)	6.6	11	15	22	27.5	33	33kW	40	44
Rated AC grid voltage (V)	380/400			380/400V			400V	480V	
AC grid voltage range (V)	313-470 (Adjustable)			304~460V (Adjustable)		304~460V (Adj.)		384~576V (Adj.)	
Operating phase	Three								
Max. AC/Rated output current (A)	10.0/8.7	16.7/14.4	25.1/21.7	28.7A/33.3	36.1A/41.7	43.3A/47.8	47.8/50	43.3A/47.8	48.1A/53
Output power factor	0.8 leading ... 0.8 lagging								
Reactive power control	0.8/0.9/1 Optional								
Total Harmonic Distortion (THD)	< 3%								
DC injection current (mA)	<20	<20	<50	<50mA					
Rated grid frequency (Hz)	50/60								
Grid Frequency (Hz)	47-52 or 57-62								
Efficiency									
Max efficiency	>98.2 %	>98.2%	>98.3%	98.6%		98.6%	98.7%	98.8%	
Euro efficiency	>97.3%	>97.3%	>97.5%	98.3%		98.3%		98.4%	
MPPT efficiency	>99.9%	>99.5%	>99.5%	99.9%					
Protection									
Temperature protection	Yes								
DC reverse polarity protection	Yes								
AC short circuit protection	Yes								
AC output overcurrent protection	Yes								
Output overvoltage protection - Varistor	Yes								
Ground fault monitoring	Yes								
Grid monitoring	Yes								
Islanding protection	Yes								
Integrated DC switch	Optional								
General data									
Size (mm)	430W *613H*269D	430W *613H*269D		530W *700H*356 5.D.					
Weight (KG)	29	29	30	57.2	58.2	58.2kg		58.2kg	
Topology	Transformesrless								
Internal consumption	<1W (Night)								
Operating ambient temperature range	-25°C~60°C			-25°C~60°C					
Ingress protection	Ip65								
Noise emission (typical)	<30 dBA								
Cooling concept	Natural convection								
Max. operating altitude without derating	4000m								
Designed lifetime	>20 years								
Utility monitoring	EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727								
Operating surroundings humidity	0~100%								
EMC	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3								
Features									
DC connection	MC - 4 mateable								
AC connection	Ip67 rated plug								
Display	7.0" LCD color screen display (optional)								
Communication connections	4 pins RS485 connector , 2 RJ45 connector								
Warranty	5-8 Years standard (extended to 20 years)								

*With Technical Expertise and State of the art manufacturing facilities, In case of Bulk requirement, U R Energy can Provide customized products as per specific requirements.

URE Three Phase Grid Tied Inverter

LEADING FEATURES

- ▲ Three phase output
- ▲ Max. efficiency 99%, EU efficiency 98.5%
- ▲ High precise, high speed MPPT algorithm
- ▲ Four MPPT input, each rated current is 28.5A, compatible with high power module
- ▲ Compact and light design for two-person easy installation
- ▲ IP65, visually pleasing for domestic environment
- ▲ THDi < 3%, low harmonic distortion against grid
- ▲ Anti-resonance, single transformer can connect 6M+ in parallel
- ▲ Perfect commercial site monitoring solution
- ▲ Intelligent redundant fan-cooling
- ▲ 5 years standard warranty, 10 years optional upgrade. (Extended Warranty)



Three Phase Inverter



Product Range :-

- ▲ URE 40K
- ▲ URE 50K
- ▲ URE 50K-HV
- ▲ URE 60K-HV
- ▲ URE 70K-HV



USA | UK | AFRICA | DUBAI | INDIA | CHINA | AUSTRALIA

Data Sheet

Model	URE-40K	URE-50K	URE-50K-HV	URE-60K-HV	URE-70K-HV
EnergySource	PV				
Input Side(DC)					
Max. DC input power(kW)	48kW	55kW	60kW	72kW	77W
Max. DC input voltage(V)	1100				
Start-up voltage(V)	200V				
MPPT voltage range(V)	200-1000V				
Max. input current(A)	22+22+22+22	28.5+28.5+28.5+28.5	22+22+22+22	28.5+28.5+28.5+28.5	
MPPT number/Max input strings number	4/8	4/12	4/8	4/12	
Output Side (AC)					
Rated output power(kW)	40	50	50	60	70
Max. apparent output power(kVA)	44	50	55	66	70
Max. output power(kW)	44	50	55	66	70
Rated grid voltage(V)	380	380	500	500	540
Grid voltage range(V)	304-460	304-460	384-576	384-576	400-648
Rated grid frequency(Hz)	50/60				
Operation phase	Three				
Rated grid output current(A)	58	72.2	57.7	69.3	74.8
Max. output current(A)	66.9	80	66.2	80	97
Power Factor (at rated output power)	0.8 leading ... 0.8 lagging				
THDi (at rated output power)	<3%				
DC injection current(mA)	<50				
Grid frequency range(Hz)	47-52or 57-62				
Efficiency					
Max. efficiency	98.8%	98.8%	99.0%	99.0%	99.0%
EU efficiency	98.4%/98.4%	98.4%/98.4%	98.5%/98.5%	98.5%/98.5%	98.5%/98.5%
MPPTefficiency	99.9%				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Output over voltage protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Islanding protection	Yes				
temperature protection	Yes				
Integrated DC switch	Optional				
General Data					
Dimensions (mm)	630W*700H*357D				
Weight(kg)	63		68		
Topology	Transformerless				
Self consumption (night)	<1W(Night)				
Operating ambient temperature range	-25°C~60°C				
Ingress protection	IP65				
Noise emission {typical}	<30 dBA	<60 dBA	<30 dBA	<60 dBA	
Cooling concept	Natural convection	Intelligent redundant fan-cooling	Natural convection	Intelligent redundant fan-cooling	
Max.operation altitude	4000m				
Designed lifetime	>20 Years				
Grid connection standard	EN50438, G83/2, AS4777, VDE0126-1-1, IEC61727				
Relative humidity	0~100%				
Safty/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3				
Features					
DC connection	MC-4 mateable				
AC connection	Terminal connectors				
Display	LCD, 2 x 20 Z.				
Communication connections	4 pins RS485 connector, 2 RJ45 connector, 2 group of terminal block				
Warranty	5 years standard (extend to 20 years)				

*With Technical Expertise and State of the art manufacturing facilities, In case of Bulk requirement, U R Energy can Provide customized products as per specific requirements.

LEADING FEATURES

- ⬆ Max. efficiency. Over 97%
- ⬆ Dual MPPT design with precise MPPT algorithm
- ⬆ Ultra wide input voltage range
- ⬆ Integrated AFCI
- ⬆ Compact and light design for one-person easy installation
- ⬆ Visually pleasing for indoor and outdoor installations
- ⬆ RS 485, WiFi/GPRS (optional) interface, Numerous protection functions for "peace of mind"
- ⬆ Web-based data monitoring
- ⬆ 5 years standard warranty, 10 years optional upgrade (Extended Warranty)
- ⬆ Intelligent Energy management for maximum self-consumption
- ⬆ Battery Capacity can be expanded
- ⬆ Suitable for 48V battery



URE-Hybrid Inverter



EMTEK

Product Range :-

- ⬆ URE-3K-HYB
- ⬆ URE-5K-HYB



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Data Sheet

Model	URE-3K-HYB		URE-5K-HYB	
Energy source	PV			
Input DC (PV side)				
Max. input power (kW)	3.5		5.8	
Max.DC input voltage(V)	600			
Start-up DC input voltage(V)	120			
MPPT operating range(V)	150-500			
Max. DC input current(A)	10+10		15+15	
Number of MPPT/Max strings per MPPT	2/2			
Battery				
Battery Type	Li-ion			
Battery voltage range	42- 58V			
Battery Capacity	100-500Ah			
Maximum Charging Power	3000W			
Maximum Charging current	62.5A			
Short circuit protection	electronic, with max. charging current, switch-off < 1 sec.			
Number of Cycles	>4000			
Batteries temperature compensation	included			
Batteries voltage measurement	integrated			
Output AC(Grid side)				
Rated output power(kW)	3		5	
Max. input power (kW)	3.30		5.00	
Rated AC grid voltage(V)	202/220/240			
AC grid voltage range(V)	180-270			
Operating phase	Single			
Rated AC grid output current(A)	13.0		21.7	
Output power factor	>0.99			
Grid current THD	<4%			
DC injection current(mA)	<20			
Rated grid frequency(Hz)	50/60Hz			
Frequency range(Hz)	47-52Hz or 57-62Hz			
Efficiency				
Max. efficiency of Solar Inverter	97%			
European efficiency of solar Inverter	96.5%			
Max. efficiency of Battery Inverting	95%			
Max. efficiency of Battery charging	95%			
Protection device				
Ground fault monitoring	integrate			
Residual current monitoring unit	Integrate			
DC AFCI	Optional			
DC reverse polarity protection	Yes			
Protection class/Over voltage category	I/IV			
General data				
Size	333x565x250mm			
Weight	20kg		25kg	
Topology	Transformerless			
Internal consumption	<1W(Night)			
Running temperature	-25°C~60°C			
Protection degree	Ip65			
Noise emission(typical)	<30 dBA			
Cooling concept	Natural convection			
Max. operating altitude without derating	2000m			
Designed lifetime	>20 years			
Safety and EMC standard	UL 1741, UL 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1			
Operating surroundings humidity	0~95%			
Features				
DC Connection	Quick Connection			
AC Connection	Quick Connection			
Display	LCD, 2 × 20 Z			
Interface	CAN/RS 485, WiFi/GPRS (optional)			
Warranty	5~10 years			

URE Micro Inverter



URE- 250-240A Micro Inverter



URE- 300 Micro Inverter



URE- 300X2-240A Micro Inverter



LEADING FEATURES

- ▲ Designed to connect individual PV modules and perform DC to AC conversion
- ▲ Globally certified for c-ETL-us, SAA, TUV, VDE-AR-N 4105, VDE 0126, G83/2
- ▲ Very simple installation with built-in cables and connectors
- ▲ NEMA-6 enclosure rating
- ▲ NEMA-6/IP/IP-66/IP-67 enclosure rating.
- ▲ Integrated monitoring and power line communication with BDG-256 gateway.
- ▲ Integrated grounding for easy installation.

Product Range :-

- ▲ URE-M250 (220Wp)
- ▲ URE-M300 (250Wp)
- ▲ URE-M300 x 2 (300 x 2 Wp)

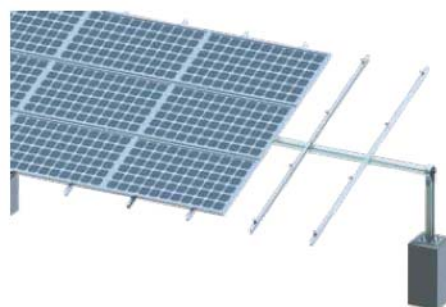


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	MODEL	URE-250-240A	URE-250-208A	URE-250-EU URE-250-AU	URE-300	URE-300X2				
INPUT(DC)	Max Recommended PV Power (Wp)	285			300	300X2				
	Max DC Open Circuit Voltage (Vdc)	60								
	Max DC Input Current (Adc)	12								
	MPPT Tracking Accuracy	>99.5%								
	MPPT Tracking Range (Vdc)	22-55								
	Isc PV (absolute maximum) (Adc)	14			14	14X2				
	Maximum Inverter Backfeed Current to the Array (Adc)	0								
	OUTPUT(AC)	Rated AC Output Power (Wp)	220			250	500			
Nominal Power Grid Voltage (Vac)		240	208	230	240	208	230			
Allowable Power Grid Voltage (Vac)		211-264*	183-229*	Configurable*	211-264*	183-229*	Config*			
Allowable Power Grid Frequency (Hz)		59.3-60.5*		Configurable*	59.3-60.5*		Config*			
THD		<3% (at rated power)								
Power Factor (cos phi, fixed)		>0.99%			>0.99% at rated power					
Rated Output Current (Aac)		0.92	1.06	0.96	1.04	1.20	1.09	2.08	2.40	2.17
Current (inrush) (Peak and Duration)		12A, 15us								
Nominal Frequency (Hz)		60		50	60	50	60	50		
Maximum Output Fault Current (Aac)		2.2A peak			2.2A peak		4.4A peak			
Maximum Output Overcurrent Protection (Aac)		6.3			6.3		10			
Max. Number of Units Per Branch (20A/15A circuit)		13	11	12	15/11	13/11	14/11	7/5	6/5	7/5
SYSTEM EFFICIENCY		Weighted Averaged Efficiency (CEC)	95%			95.5%		95.5%		
		Night Time Tare Loss (Wp)	0.17							
PROTECTION FUNCTIONS	Over/Under Voltage Protection	Yes								
	Over/Under Frequency Protection	Yes								
	Anti-Islanding Protection	Yes								
	Over Current Protection	Yes								
	Reverse DC Polarity Protection	Yes								
	Overload Protection	Yes								
	Protection Degree	NEMA-6 /IP-66/IP-67								
	Environment Temperature -	-40C— +65C								
	Display	LED LIGHT								
	Communications	Power Line								
	Dimension (W-H-D mm)	230*138*35			180*186*25		277*132*50			
	Weight (Kg)	2.0			1.5		2.9			
	Environment Category	Indoor and outdoor								
	Wet Location	SUITABLE								
	Pollution Degree	PD 3								
	Maximum Altitude	2000 M								
	Overvoltage Category	II(PV), III (AC MAINS)								
	Product Safety Compliance	UL 1741 CSA C22.2 No. 107.1			IEC/EN 62109-1 IEC/EN 62109-2		California Rule 21 Certified UL 1741 CS C22 C22.2 No. 107.1		IEC/EN 62109-1 IEC/EN 62109-2	
	Grid Code Compliance* (Refer to the label for the detailed grid code compliance)	IEEE 1547			VDE-AR-N 4105* VDE V 0126-1-1/A1 G83/2 AS 4777.2 & AS 4777.3,EN 50438		VDE -AR-N 4150* VDE V 0126-1-1/A1 G83/2, CEI 021 AS 4777.2 & AS		VDE-AR-N 4105* VDE V 0126-1-1/A1 G83/2 AS 4777.2 & AS 4777.3,EN 50438	
		☐ Grid parameters are configurable through a BDG-256 or BDG-256P3 gateway Compliance ☐ NEC 2014 Section 690.11 DC Arc-Fault Circuit Protection ☐ NEC 2014 Section 690.12 Rapid Shutdown of PV Systems on Buildings ☐ NEC 2014 Section 705.12 Point of Connection (AC Arc-Fault Protection)								

Module Mounting System : Flat Roof Mounting System

Single Axis Solar Tracker System



Partial Diagram

Compare to the fixed mounting system, single axis tracker can collect more sun lights, increasing the electricity production by 20-35%.

Product Features



1. Easy installation:

Structure is stable and more reliable. While the system is working, center of gravity and the axis are in the same position, thus eliminating the reducer bias.

2. Smart Protection :

In case of strong winds or adjust the bracket flat, parallel to the ground thus preventing it from damage.

3. 10 Years Warranty :

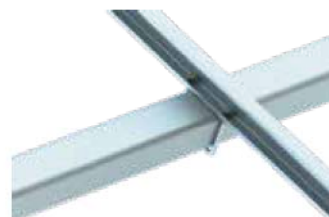
After optimization of the bearings and other components, and choosing proper materials design, effectively prevent the external conditions such as dust, wind to damage the system.

Technical Parameters

Installation site	Flat Ground
Base	Concrete Base
Material	Hot Dipped Galvanized Steel
Wind Load	30 m/s
Snow Load	0.7 kN/m ²
Protection Level	IP65
Tracking Accuracy	$\leq 0.5^\circ$
Increase Electricity Production	$\geq 20\%$
Warranty	10 Years
Material	Anodized AL6005-T5, SUS304
Yield Strength	205N/mm ²



Main Post



Rail

Module Mounting System

Metal Roof



- URE Metal Roof solution designed for pitched metal roof
- Designed with great flexibility both for commercial and residential roof



Rail



Mid / End Clamp



Roof Clamps / L Feet

Product Features

1. Easy installation:

- Click in system, smart and easy for installation
- Universal end/middle clamp suit for 30-55mm panels
- 5 components for verticle mounting

2. Safety and Reliability:

AS/NZS1170, CE certified



Rail Splice

Technical Parameters

Building Height	upto 20m
Wind Load	upto 60m/s
Snow Load	upto 1.4KN/m ²
Certification	MCS, AS/NZS 1170, SGS
Material	AL6005-T5, SUS304 A2-70
Yield Strength	260N/mm ²



Module Mounting System

Pile-Ground Mounting System



UR Pile Ground System is applied for large commercial and utility PV systems on non-sandy ground, suitable for both framed and frameless module installation.

In UR Pile Ground System, Open Post can be pile into the ground 1-2 meters by pile machine quickly, then easily mounting the pre-assembled Al-Beam structure, B-Rail with clamps.

Our mission is to simplify your installation and ensure the structure safety. UR Energy, your best choice.

Product Features

1. Safety and Reliability :

Check and test the structure strictly to against the extreme weather condition.

2. Easy Installation :

Parts have been high pre-assembly on factory to save your installation time.

3. Flexibility and Adjustable :

Smart design reduce the difficulty of the installation on the most condition .

4. 10 Years Warranty :

UR Energy provides a 10-years warranty for the material and structure.

Technical Parameters

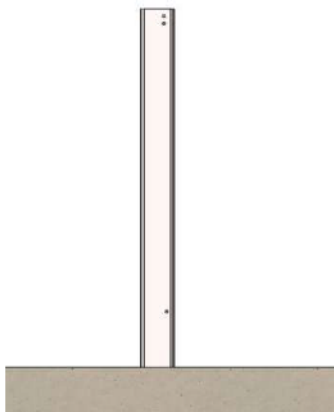
Installation Site	Open Field
Max Wind Speed	up to 60m/s
Snow Load	up to 1.4kN/m ²
Module Type	Framed or Frameless
Module Orientation	Portrait
Rail Material	Anodized Aluminum
Post Material	Hot-dip Galvanized Steel
	Post Height Deviation : 10mm
Adjustability	Post Angle Deviation : 2°
	Post Verticality Deviation : 2°
	Pile Driving Depth: 1000~2000mm
Soil Condition	Non-Sandy



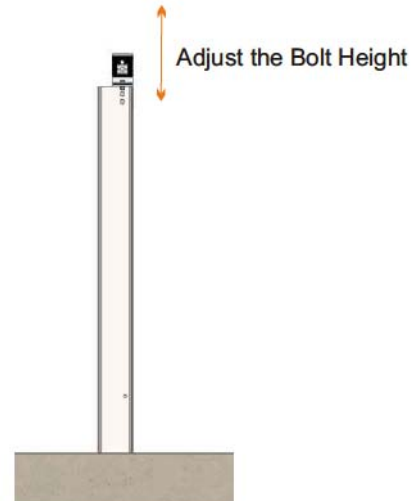
Module Mounting System

Pile-Ground Mounting System

INSTALLATION STEPS



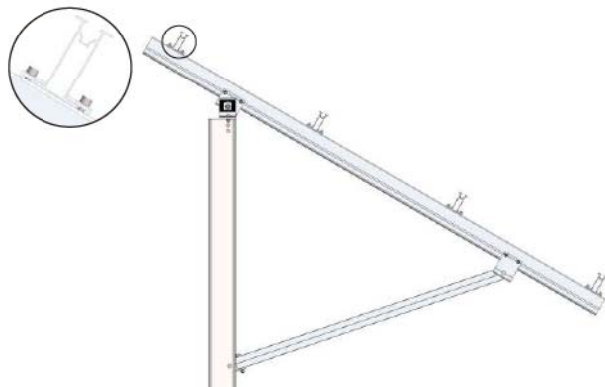
Step 1: Pile the Open Post by Pile Machine



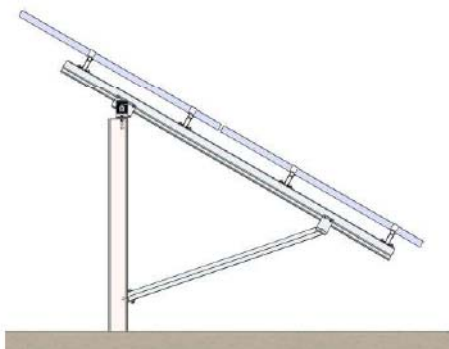
Step 2: Install and adjust the Top Cap



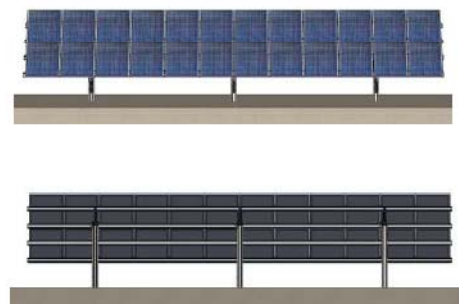
Step 3: Install the Assembly of Beam



Step 4: Install the B-Rail by Rail Clamp



Step 5: Install the Modules



Finish

Module Mounting System

Pile-Ground Mounting System

COMPONENTS

System Overview



1. UR-PG-OP2990



2. UR-PG-BA30 (Fold Package)



3. UR-PG-TC



4. UR-BR-4990



5. UR-BR-SP



6. UR-BR-C60

Item No.	Description
UR-PG-OP2950	Open Post 2950mm

Material: Q235 Steel

UR-PG-TC	Assembly of Top Cap
UR-PG-BA30	Assembly of Support Beam, 30deg -For Module length 1400~1600mm -High Pre-Assembly
UR-BR-4990	B-Rail 4990mm
UR-BR-SP	B-Rail Splice
UR-BR-C60	B-Rail Clamp

Material: Aluminum Alloy 6005-T5

Module Mounting System

Pile-Ground Mounting System

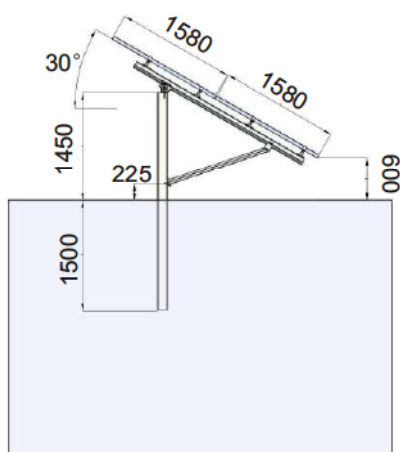
PROJECT EXAMPLE

Project Information

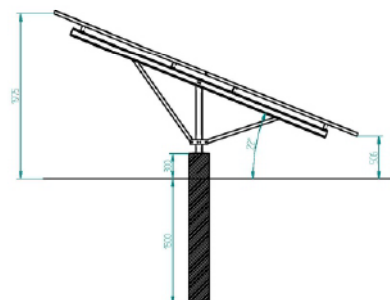
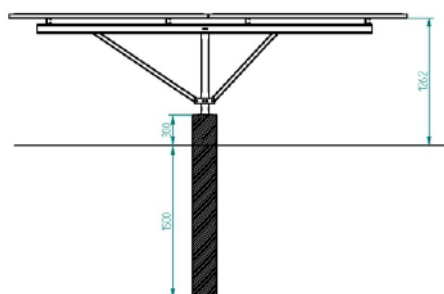
Tilt Angle:	0 - 30 deg
Module Orientation:	Portrait
Unit Array:	2*12 (24pcs panels)

Flood Height:	600mm
Wind Speed:	<45m/s
Soil Condition:	Non Sandy
Pile Height:	1500mm

2D Planning Drawing



Side View



Components List

Item	Description	Spec.	Qty
UR-BR-4990	B-Rail 4990	4990mm	8pcs
UR-BR-SP	B-Rail Splice	200mm	4pcs
UR-BR-C60	B-Rail Clamp	60mm	24pcs
UR-IC-F46	Inter Clamp Kit	46mm	44pcs
UR-EC-F46	End Clamp Kit	46mm	8pcs
UR-PG-BA30	Assembly of Support Beam, 30deg	30°	3pcs
UR-PG-TC	Aluminum Top Cap	80mm	3pcs
UR-PG-OP2950	Open Post 2950	2950mm	3pcs



Product Range and Types:-

U R Energy provides complete range of transformers with latest technology ensuring maximum efficiency and high reliability for long term operations.

A) Oil Filled Transformers

- Power Transformers (Up to and including 160MVA, 220kV)
- Mobile Transformers (Up to and including 60MVA, 132kV)
- Distribution Transformers (Including Corrugated type – Starting from 5KVA, 6.6kV)
- Furnace Transformers (Up to and including 50MVA, 66kV)
 - a. Induction Furnace Duty
 - b. Arc Furnace Duty
- Motor Starting Transformers (For L.T. & H.T. Motors)
- Neutral Grounding Transformers
- Rectifier Duty Transformers
- Testing Transformers

B) Encapsulated & VPI Transformers

- Air Cooled Transformers (Up to 2000KVA, 22kV class)
- Cast Resin Transformers (Up to 500KVA, 11kV)
- Boosters & Voltage Regulators

Some of the projects done by UR Energy Group :



5 MW

L & T CONSTRUCTION, Sitamau, M.P



5 MW

Jakson Power, Mansa, Punjab



5 MW

Moserbaer Eng. & Construction Ltd
Kamalpur, Viramgam, Gujarat



2 MW

Jay Chemical Industries Ltd.
Khambhat, ANAND, Gujarat



1.42 MW

Asian Tube Ltd.
KALOL & KADI, Gujarat



2200 KW (Aprox), more then 600 households.
Residential Solar Project, All our Gujarat

Some of the projects done by UR Energy Group :



315 KW
Sunrise Group
Chhatral, Gandhinagar, Gujarat



270 KW
Ganpat University,
Mehsana, Gujarat.



130 KW
Patel Airtemp, Santej GIDC
Ahmedabad, Gujarat



85 KW
Parmeshwar Cold Storage,
Kheralu, Mehsana, Gujarat



50 KW
Maxwell Crushtech, Chatral, Gujarat



18 KW
Virani Febrics, Dalad
Sayan Road, Surat, Gujarat



90 KW
Scottish INNS, Atlanta – USA



57.6 KW
ABVI Hotel, 2185 Mt Zion Pkwy,
Morrow, GA USA

U R Energy provides fully-integrated solutions for the successful implementation of solar PV projects. At the heart of this solution is the deep industry knowledge and track record of a global solar EPC (Engineering, Procurement, and Construction). U R Energy is able to perform a Full Service EPC at every step of the value chain including:

1. ENGINEERING

We design solar plants with optimum PV output committed to achieve the most affordable levelized cost of electricity in any region of the globe.

2. PROCUREMENT & PURCHASING

We are able to negotiate and supply bankable technology of key providers and services suitable to the project at the best terms possible.

3. PRODUCTION

In one of the most advanced production lines in China and Turkey which is completely automated and robotized, we produce our awarded PV modules and patented R&D solutions.

4. PROJECT MANAGEMENT

From A to Z, we plan the whole process taking care of every detail to guarantee the utmost project completion.

5. CONSTRUCTION

We manage referenced contractors to build the project, assuring the highest level of quality within the time and cost deadlines, in total compliance with local regulations.

6. COMMISSIONING

U R Energy carries out several commissioning tests to make sure that each power plant operates as designed and performs as expected.

- * With technical Expertise and state of the art manufacturing facilities, In case of bulk requirement, U R Energy can provide customized products as per specific requirements.





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