



## MICRO INVERTER



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

ENERGY FOR ALL



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U R Energy started its journey in the solar industry since 2009 and within 8 years achieved a market leading position servicing 71,264+ residential and commercial customers across the world wide solar market. The company procures, develops and installs solar power systems at economic prices for residential, commercial, industries and utility scale customers.

Quality is in the main focus of our business as the company has invested heavily in technology to provide consumers a pleasurable experience of solar adoption through dedicated call centers, live chat based support, and many more for online / application-based live tracking of energy production, customer requests, so that consumers After-sales service can be provided immediately. UR Energy is ISO 9001, ISO 14001 and OHSAS 18001 accredited company, and supplies high-quality inverter, tier 1 panel brand.



**ABOUT URE**

### CHAIRMAN'S MESSAGE



**CA VISHNU PATEL**

Today generation and utilization of renewable energy is at the center of attention. Governments worldwide have realized the importance of moving away from fossil fuel to clean and green energy in order to provide a safe future to the generations to come. Solar Energy is the key in achieving this objective, as it is a choice available for everyone from a small time farmer in a remote location to mega-scale industries. UR Energy commenced its business with a single objective of accelerating the adoption and growth of solar power systems across the world, not only for its obvious environmental benefits but more importantly the economic benefits to its clients.

We at UR Energy have invested heavily in technology to provide our customers with an exhilarating experience of adopting solar through online/App based live tracking of energy generation, dedicated call center to attend to customer requests, live chat based support and many more.

We have to our credit solar installations of over 250 MW and a customer's base of 71,264 clients - domestic, retail and industries, across the globe. Our quality supplies, economical price structure, convenient payment modes, timely delivery and best in industry customer support are the key to our success.

### MISSION

Envisioning ENERGY FOR ALL – as our prime motto and quality as our business USP, Our efforts in mainstreaming solar is to become a World leader and a Rooftop Solar (RTS) Company of Choice executing and operating our projects efficiently and maintaining the highest standards of quality, safety and environmental sustainability.

### VISION

Our Vision is to provide high quality and cost effective sustainable-clean energy solutions across all markets sectors, thereby improving quality of present and future human life.

### GOALS

U R Energy is committed to increase the renewable power capacities UR Energy is striving to meet a target of 100 megawatts to be a market leader grid-connected solar PV rooftop share of India.



## 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<br>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<br>CSA C22.2 No. 107.1  |                                    | IEC/EN 62109-1<br>IEC/EN 62109-2  | California Rule 21<br>Certified UL 1741 CS<br>C22 C22.2 No. 107.1          | IEC/EN 62109-1<br>IEC/EN 62109-2  |                  |                |
| Grid Code Compliance* (Refer to the label for the detailed grid code compliance) | IEEE 1547   |                                    | VDE-AR-N 4105*<br>VDE V 0126-1-1/A1<br>G83/2<br>AS 4777.2 & AS<br>4777.3,EN 50438 | VDE -AR-N 4150*<br>VDE V<br>0126-1-/A1<br>G83/2, CEI 021<br>AS 4777.2 & AS | VDE-AR-N 4105*<br>VDE V 0126-1-1/A1<br>G83/2<br>AS 4777.2 & AS<br>4777.3,EN 50438 |                  |                |
|  | <input type="checkbox"/> Grid parameters are configurable through a BDG-256 or BDG-256P3 gateway Compliance<br><input type="checkbox"/> NEC 2014 Section 690.11 DC Arc-Fault Circuit Protection<br><input type="checkbox"/> NEC 2014 Section 690.12 Rapid Shutdown of PV Systems on Buildings<br><input type="checkbox"/> NEC 2014 Section 705.12 Point of Connection (AC Arc-Fault Protection) |                                    |   |  |   |                  |                |



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