



## SOLAR INVERTER

  
**UREnergy**<sup>®</sup>  
USA | UK | AFRICA | DUBAI | INDIA | CHINA | AUSTRALIA

ENERGY FOR ALL



☎ 1800 120 4011

🏠 [www.urenergyglobal.com](http://www.urenergyglobal.com)  
✉ [india@urenergyglobal.com](mailto:india@urenergyglobal.com)

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 Three Phase Grid Tied Inverter

## 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								
<b>Input side</b>									
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					
<b>Output side</b>									
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								
<b>Efficiency</b>									
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%					
<b>Protection</b>									
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								
<b>General data</b>									
Size (mm)	430W *613H*269D	430W *613H*269D		530W *700H*356 S.D.					
Weight (KG)	29	29	30	57.2	58.2	58.2kg		58.2kg	
Topology	Transformersless								
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								
<b>Features</b>									
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



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# Data Sheet

Model	URE-40K	URE-50K	URE-50K-HV	URE-60K-HV	URE-70K-HV
EnergySource	PV				
<b>Input Side(DC)</b>					
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)	22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A	22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A	
MPPT number/Max input strings number	4/8	4/12	4/8	4/12	
<b>Output Side (AC)</b>					
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	80
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				
<b>Efficiency</b>					
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%				
<b>Protection</b>					
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				
<b>General Data</b>					
Dimensions (mm)	630W*700H*357D (mm)				
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				
<b>Features</b>					
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.



**INDIA**  
 B2/9<sup>th</sup> Floor, Palladium, B/h. Divya Bhaskar Press,  
 Corporate Road, Prahlad Nagar,  
 Ahmedabad-380015, Gujarat.  
 Toll Free No: 1800 120 4011  
 Email: [india@urenergyglobal.com](mailto:india@urenergyglobal.com)



**UNITED KINGDOM**  
 Unit B5, Phoenix Industrial Estate  
 Rosslyn Crescent,  
 Harrow, Middx, HA1 2SP  
 M: +44 7782 417071  
 Tel: +44 208 427 3888  
 Email: [uk@urenergyglobal.com](mailto:uk@urenergyglobal.com)



**USA**  
 2670, North Berkeley Lake Road,  
 Suit 6, Duluth, GA 30046  
 Phone : +1 (678)778-0109  
 Email: [usa@urenergyglobal.com](mailto:usa@urenergyglobal.com)



**CHINA**  
 No.A1-402, Business Center, Defu Plastic Market,  
 No. 52-54 Jianshe Road, East District, Lecong,  
 Shunde, Foshan Guangdong, China.  
 M: + 86 134 2560 3432  
 Email: [china@urenergyglobal.com](mailto:china@urenergyglobal.com)



**DUBAI**  
 2506 Berlington Tower,  
 Deyar Building, Business Bay,  
 Shekh Zayed ,Dubai, UAE  
 M: +97 155 2135300  
 Tel: +97 143 889312  
 Email: [dubai@urenergyglobal.com](mailto:dubai@urenergyglobal.com)



**AUSTRALIA**  
 6/163, Prospect Highway, Seven Hills NSW 2147  
 Tel: + 1300 14 94 24  
 Email: [ausi@urenergyglobal.com](mailto:ausi@urenergyglobal.com) | [sales@urenergy.com.au](mailto:sales@urenergy.com.au)



**AFRICA**  
 PO BOX No. 1340-90100  
 Machakos, Kenya  
 Tel: +25 47800 00787  
 Email: [kenya@urenergyglobal.com](mailto:kenya@urenergyglobal.com)