





SOLAR INVERTER


UREnergy[®]
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 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



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 Mini Series 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



EMTEK

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				
Max. output current	4.4A	6.1A	9.2A	12.2A	13.9A
Power factor	0.8 leading ... 0.8 lagging				
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	Original MC4 Connector				
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 Mini 4G Series 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
EnergySource	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)	11A						
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...1...0.8						
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%		
MPPTefficiency	>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	>20years						
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-4mateable						
AC connection	Ip67rated plug						
Display	LCD,2×20 Z.						
Communication connections	4 pins RS485 connector						
Warranty	5 years standard (extend to 20 years)						



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