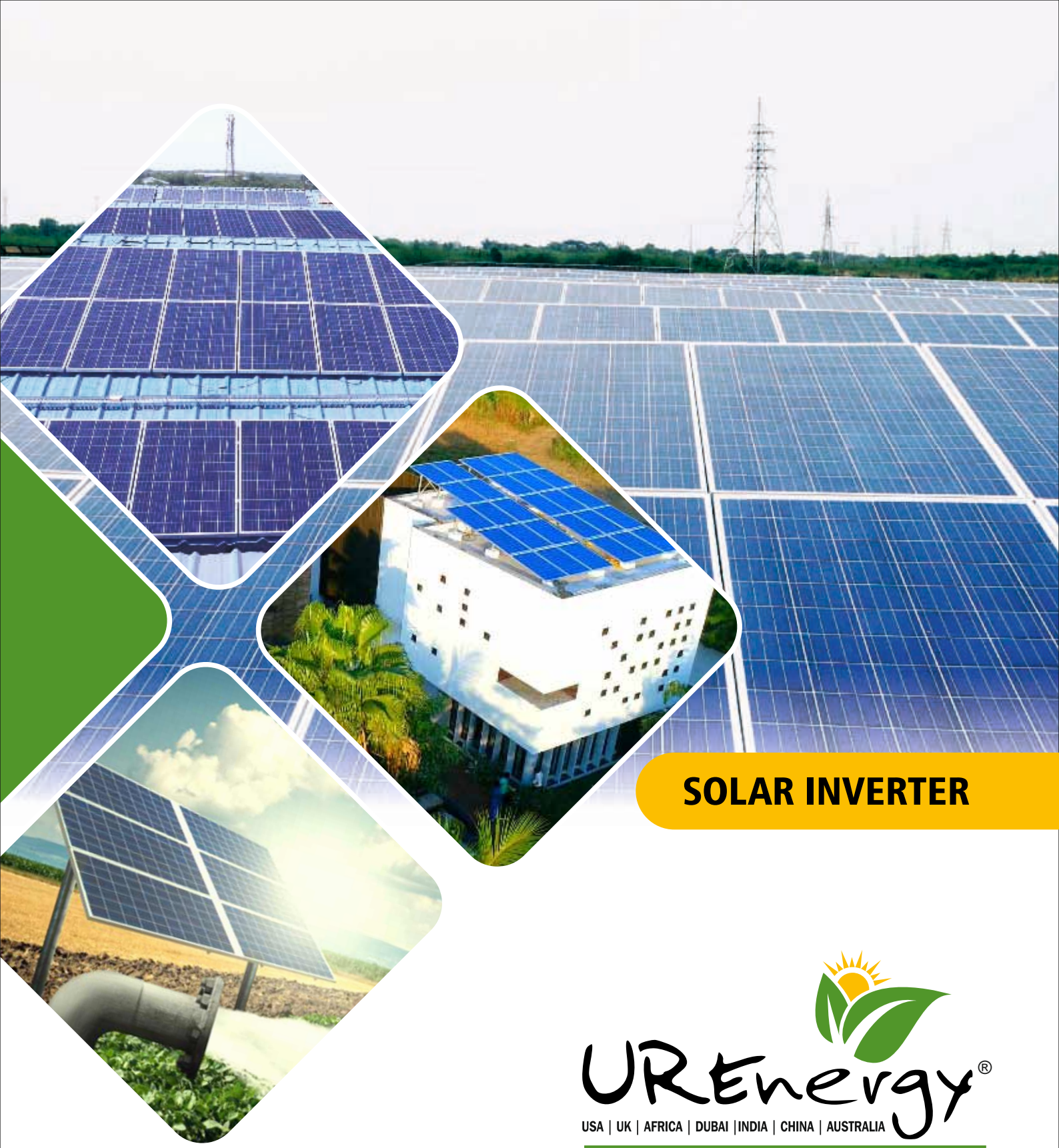

SOLAR INVERTER

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 main streaming 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 roof top share of India.

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

2013002265D

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 logging					
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

2013002265D

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 eficiency	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.

LEADING FEATURES

- High switch frequency technology-Smaller, smarter
- DRM integrated, fully comply with AS4777.2:2015
- Compact and lightweight, visually pleasin
- 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

2013002265D

EMTEK

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)						

LEADING FEATURES

- Compact and lightweight design inside a corrosion-resistant NEMA 4X enclosure
- Easy to install and visually pleasing for indoor or outdoor installations
- Single Phase 240Vac and 208Vac output
- Up to 97.8% efficient with an ultra-low start up voltage
- Dual (2) MPPT designs with fast (< 5 sec.) MPPT response times
- Industry-leading (100-500Vdc) operating MPPT range
- Integrated Arc Fault Circuit Interrupt (AFCI) option
- RS485 Modbus communication protocol with Wi-Fi interface (optional GPRS)
- Web based data monitoring with downloadable UR Energy App.
- 10 Year Standard Warranty with extension options

Single Phase Inverter

2013002265D

EMTEK

Product Range :-

- 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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Model	URE 2.5k-2G	URE 3k- 2G	URE 3.6k- 2G	URE 4k- 2G	URE 4.6k- 2G	URE 5k- 2G
Energy Source	PV					
DC Values						
Max Usable Input Current per MPPT (Amps)	10+10	10+10	10+10	10+18	10+18	10+18
Max Short Circuit Input Current (Amps)	15.6 +15.6	15.6 +15.6	15.6 +15.6	15.6 +28.1	15.6 +28.1	15.6 +28.1
Start-Up Voltage (Volts)	120 Vdc					
Max Voltage (Volts)	600					
Operating MPPT Voltage Range (Volts)	100-500					
Full Power MPPT Voltage Range (Volts)	125-500	150-500	180-500	145-500	165-500	165-500
Max Power per MPPT (Watts)	3000	3600	4000	4000	4600	5000
Number of MPPT	2					
Inputs per MPPT	1	1	1	1+2	1+2	1+2
AC Values (208 Vac and 240 Vac)						
Operating Voltage Range (Volts)	183-228(for 208V rate)/211-264(for 240V rated)					
Operating Frequency Range (Hertz)	59.3 - 60.5					
Ambient Operating Temp. Range (Celsius and Fahrenheit)	-25°C to 60°C / - 13°F to 140°F					
Relative Humidity Range	0-100% Condensing					
Power Factor	0.9 leading ... 0.9 lagging					
Grid Current THD	< 3%					
Nominal Output Power (Watts)	2500	3000	3600	4000	4600	5000
Max Continuous Output Power (Watts)	2800	3300	4000	4400	5000	5000
Max Output Current 208/240V Grid	12.0/10.4	14.4/12.5	17.3/15.0	19.2/16.7	22.1/19.2	24.0/20.8
Efficiency						
Peak Efficiency	97.5%	97.5%	97.5%	97.8%	97.8%	97.8%
CEC Weighted Efficiency	95.5%	96.5%	96.5%	97.0%	97.0%	97.0%
MPPT Efficiency	>99%					
Protection						
Max Overcurrent Protection Device (Amps)	20	20	20	30	30	30
Temperature Protection	Yes					
DC Reverse Polarity Protection	Yes					
Output Overvoltage Protection-Varistor	Yes					
Islanding Protection	Yes					
Integrated AFCI (DC arc fault circuit protection)	Yes					
Integrated DC Switch	Yes					
Rapid Shutdown	Optional					
General data						
Dimensions	13.3*25.9*6.8in					
Weight	33.1 lb.			38.6 lb.		
Topology	Transformer-less					
Internal consumption	＜1W (Night)					
Enclosure Type	NEMA 4X					
Cooling Concept	Natural Convection					
Noise Emissions (Typical)	< 30 dBA					
Max. operating altitude without derating	13120 ' (4000m)					
Compliance	CAN/CSAC22.2 N107.1, UL1741, IEEE1547, UL1998, UL1699B, FCC part 15, Class B					
Features						
Display	LCD, 2 x 20Z					
Interface	RS485 , WiFi/GPRS (Optional)					
Connections	Plugged 3/4" ID on sides, Plugged 1" ID on bottom					
Warranty	Standard 10 Year (Extendable 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-4G-US Single Phase Grid Tied Inverter

LEADING FEATURES

- Compact and lightweight design inside a corrosion-resistant NEMA 4X enclosure
- Easy to install and visually pleasing for indoor or outdoor installations
- Single Phase 240Vac and 208Vac output
- Up to 97.8% efficient with an ultra-low start up voltage
- Dual (2) MPPT designs with fast (< 5 sec.) MPPT response times
- Industry-leading (100-500Vdc) operating MPPT range
- Integrated Arc Fault Circuit Interrupt (AFCI) option
- RS485 Modbus communication protocol with Wi-Fi interface (optional GPRS)
- Web based data monitoring with downloadable UR Energy App.
- 10 Year Standard Warranty with extension options

Single Phase Inverter

2013002265D

EMTEK

Product Range :-

- URE-1P6K - 4G
- URE-1P7K - 4G
- URE-1P7.6K - 4G
- URE-1P8K - 4G
- URE-1P9K - 4G
- URE-1P10K - 4G

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Model	URE 1P6K-4G	URE 1P7K-4G	URE 1P7.6K-4G	URE 1P8K-4G	URE 1P9K-4G	URE 1P10K-4G
Energy Source	PV					
DC Values						
Max. power per MPPT (Watts)	4000					
Max. voltage(Volts)	600					
Startup voltage(Volts)	120					
Full power MPPT voltage range(Volts)	200-500	233-500	253-500	200-500	225-500	250-500
Operating MPPT Voltage Range	100-500					
Max. usable input current per MPPT(Amps)	10					
Max. short circuit input current(Amps)	15.6					
Number of MPPT	3			4		
Inputs per MPPT	1					
AC Values (240 Vac and 208 Vac)						
Nominal output power 240/208V grid (Watts)	6000/6000	7000/7000	7600/7600	8000/7600	9000/8600	10000/9500
Max continuous output	6600	7700	8360	8800	9900	10000
Operating voltage range(Volts)	183~228 (for 208V rated)/211~264 (for 240V rated)					
Relative Humidity Range	0~100% Condensing					
Max. continuous output current 240/208V (Amps)	25/28.5	29.2/33.7	31.7/36.5	33.3/36.6	37.5/41.3	41.7/45.9
Max. overcurrent protection device 240/208V (Amps)	40/40	40/40	40/50	40/50	50/50	50/60
Output Power Factor	> 0.99					
Grid THD (current)	THDi<3%					
Operating frequency range (Hertz)	59.5-60.5					
Ambient operating temperature range	-25°C to 60 °C/-13°F to 140 °F					
Efficiency						
Peak Efficiency	97.8%					
CEC Weighted Efficiency	97.5%					
MPPT Efficiency	>99%					
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 AFCI(DC are-fault circuit protection)	Yes					
Rapid shutdown	Optional					
General data						
Dimensions (W*H*D)	13.1*25.8*9.8in					
Weight	43.2lb			43.7lb		
Topology	Transformer-less					
Internal consumption	＜1W (Night)					
Enclosure Type	NEMA 4X					
Cooling Concept	< 30 dBA					
Noise Emissions (Typical)	Naturalconvection					
Max. operating altitude without derating	13120 ft (4000m)					
Compliance	UL 1741, UL 1998, UL 1699B, IEEE 1547,FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1					
Features						
Display	Plugged 11/4" Idonsides, Plugged 11/2" IDonbottom					
Interface	LCD, 2x20Z.					
Connections	Rs485, WiFi/GPRS (optional)					
Warranty	10 Years STD (Extendable 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

- 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

EMTEK

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	36kW	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

2013002265D

EMTEK

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				
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)	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	
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	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				
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 (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				
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

- Compact and lightweight design inside a corrosion-resistant NEMA 4X enclosure
- Designed for all commercial, industrial and utility scale applications
- Transformer-less three phase design with 480Vac output
- 98.7% efficient (98.3% CEC) with ultra-low start up voltage
- Industry-leading 4 MPPT designs with fast (< 5 sec.) MPPT response times
- Integrated Arc Fault Circuit Interrupt (AFCI) option
- RS485 Modbus communication protocol with Wi-Fi interface (optional GPRS)
- 2 x 20Z LCD Display (optional 7" LCD color display)
- Web based data monitoring with downloadable UR Energy Web App.
- 10 Year Standard Warranty with extension options

Three Phase Inverter

2013002265D

EMTEK

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-36k-HV	URE-40k-HV
Energy Source	PV							
Input side								
Max. input power (kW)	6.9	11.5	17.2	23kW	28kW	34kW	41kW	45kW
Max. input voltage (V)	1000							
Start up input voltage (V)	330			350V				
MPPT voltage range (V)	200-800							
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	36kW	40kW
Max. transient power (KW)	6.6	11	15					
Rated AC grid voltage (V)	380/400			380/400V			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	16.7	25.1	28.7A	36.1A	43.3A	43.3A	48.1A
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							
Efficiency								
Max efficiency	>98.2 %	>98.2%	>98.3%	98.40%		98.6%		
Euro efficiency	>97.3%	>97.3%	>97.5%	97.60%		98.3%		
MPPT efficiency	>99.9%	>99.9%	>99.9%	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 *600H*220D	430W *613H*269D		530W *700H*356 S.D.				
Weight (KG)	27	29	30	57.2	58.2	58.2kg		58.2kg
Topology	Transformesrless							
Internal consumption	<1W (Night)							
Operating ambient temperature range	60°C			-25°C~60°C				
Ingress protection	Ip65							
Rated grid frequency (Hz)	50/60 Hz							
Noise emission (typical)	<30 dBA							
Cooling concept	Natural convection							
Max. operating altitude without derating	2000m	4000m						
Designed lifetime	>20 years							
Utility monitoring	Islanding protection Vac, Fac in accordance with UL 1741, G59/3, AS4777, VDE 0126-1-1							
Operating surroundings humidity	0-95%	0~100%						
EMC	EN 61000-6-1:2007; EN 61000-6-3:2007; IEC62109-1/2; AS3100; NB/T 32004							
Features								
DC connection	MC - 4 mateable							
AC connection	Ip67 rated plug			Terminal connector				
Display	LCD, 2X20 Z			7.0" LCD color screen display (optional)				
Interface	WiFi / GPRS (Optional)			RS 485, WiFi / GPRS (Optional)				
Warranty	5-8 years			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.

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

2013002265D

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 kW	5 kW
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	

*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 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-/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)								

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*All products and services described as well as technical data are subject to change at any time without notice due to continuous development of U R Energy Products even for reasons of country-specific deviations.

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