

## 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				
<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.