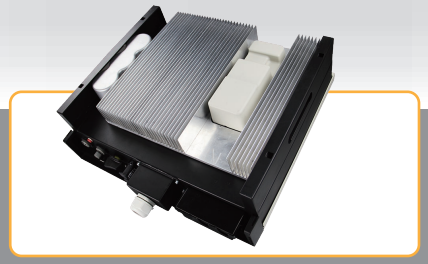
Hybrid Inverter

UREHYB3KTL

URenergy

USA | UK | UGANDA | DUBAI | INDIA | CHINA | AUSTRALIA

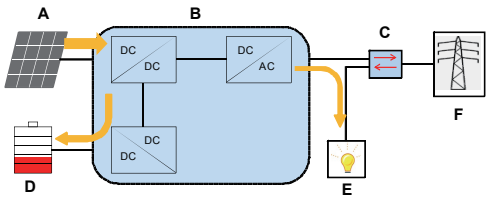
7 years Warranty

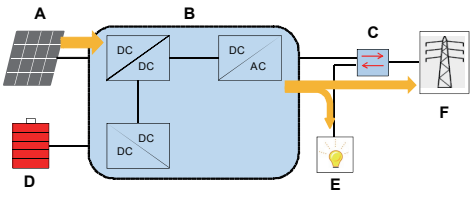


PRODUCT FEATURES

Features	Advantages	Benefits
Collection of hous power consume by current measurement	Automaticlly control solar energy as self consume	real no electricity billing in the furture, save money
Battery charge-discharge Power up to 3kW	Full solar energy stored in Battery and full self consume from battery is possiable	real no electricity billing in the furture, save money
As activ and passive model	Two system models are flexible for system interators	passive model can be done by different bus system
Battery voltage only 48V	Cheaper lead battery is possiable	reduce system costs
IP 65 protection	Waterproof and dustproof	longer life time and lower failure rate
Real time monitoring of battery temperature and BMS system	Insurance of battery system	longer life time and lower failure rate
Build in Wifi and GPRS as option	Flexible monitoring of system via Iphone Adroid and computer	save time and money
standard 7 years warranty, 5-25years optional	System are very stable	reduce failure rate
Have anti-shading function	Suitable to complex installation environment	Increase the electricity generation of the system in shading environment

HYBRID INVERTER FUNCTION DESCRIPTION

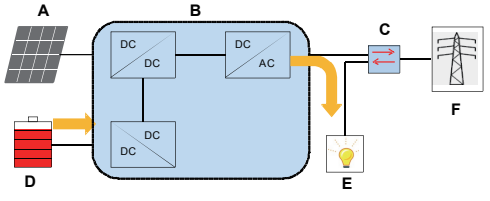


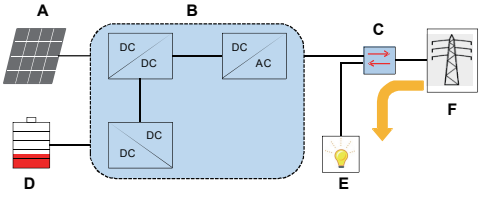


A:Solar Modules
B:Hybrid Inverter
C:Bidirection smart electricity ammeter
D:Enery Storage Battery
E:Household Load
F:Public Grid

Morning Solar module power generation gives priority to load consumption; the rest will be stored to energy storage battery.

Afternoon When battery is fully charged, solar modules provide power to load consumption; at the same time the extra power can be sold to public grid.





Evening After sunset, the energy storage battery will provide power for household load consumption.

Night When the electric power from energy storage battery is used up, the power from public grid can be used to maintain normal load operation.

Technical Data

UREHYB3KTL

Type	UREHYB3KTL
DC Input Data	
Max. PV Power	3300W
Max. DC Voltage	500V
Nominal DC Voltage	360V
Operating MPPT Voltage Range	120-500V
MPPT Voltage Range at Nominal Power	250-450V
Start up DC Voltage	150V
Turn off DC Voltage	120V
Max. DC Current	13A
Number of MPP trackers	1
Number of DC Connection	1
DC Connection Type	MC4 Connector
Battery Charge Data	
Nominal DC Voltage	48V
Nominal Charge Current	40A
Charge Current Range	5-50A
Suggested Battery Capacity	200Ah
Suggested Stored Energy	9.6kWh
Average Discharge Depth	60% DOD
Battery Types	Gel,AGM,NiCd,Li-ion
Battery Discharge Data	
Nominal DC Voltage	48V
Nominal Discharge Current	62A
Max. Discharge Current	69A
AC Output Data(Grid output & Load output)	
Grid Type	Single phase grid
Nominal AC Power (cos phi = 1)	3000W
Max. AC Power	3000VA
Nominal AC Voltage	220V/230V/240V
Nominal Grid Frequency	50Hz/60Hz
Max. AC Current	14.3A
Grid Voltage Range*	180-264V
Grid Frequency Range*	45-55Hz/55-65Hz
Power Factor	>0.99
Total Harmonic Distortion (THD)	<2%
AC Connector	Wieland Connector
Efficiency	
Max. Efficiency (at 360VDC)	98.3%
Euro Efficiency (at 360VDC)	97.0%
MPPT Efficiency	99.9%
PV to Battery Efficiency	94.5%
Battery to AC Efficiency	94.5%
PV to Battery to AC Efficiency	89.0%
Safety and Protection	
DC Insulation Monitoring	Yes
Residual Current Monitoring Unit (RCMU)	Integrated
Grid Monitoring with Anti-islanding	Yes
Protection Class	I(According to IEC 62103)
Overvoltage Category	III(According to IEC 62109-1)
Reference Standard	
Safety Standard	EN 62109, AS/NZS 3100, EN62040
EMC Standard	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3
Grid Standard	VDE-AR-N4105, VDE-0126-1-1, G83/2, EN 50438, RD1699, CEI 0-21, AS4777, C10/C11
Physical Structure	
Dimensions (WxHxD)	525x460x168mm
Weight	25kg
Environmental Protection Rating	IP 65 (According to IEC 60529)
Cooling Concept	Natural convection
Mounting Information	Wall bracket
General Data	
Operating Temperature	-20°C to +60°C(derating above 45°C)
RangeRelative Humidity	0% to 98%, no condensation
Max. Altitude (above sea level)	2000m
Noise Level	<40dB
Isolation Type	Transformerless
Display	Graphic display
Data Communication Interfaces	RS485(WiFi, GPRS optional)
Computer Communication	RS232
Standard Warranty	7 Years (5 -25 years optional)

*The AC voltage and frequency range may vary depending on specific country grid

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