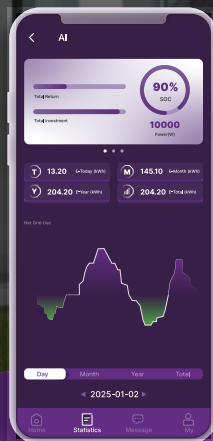
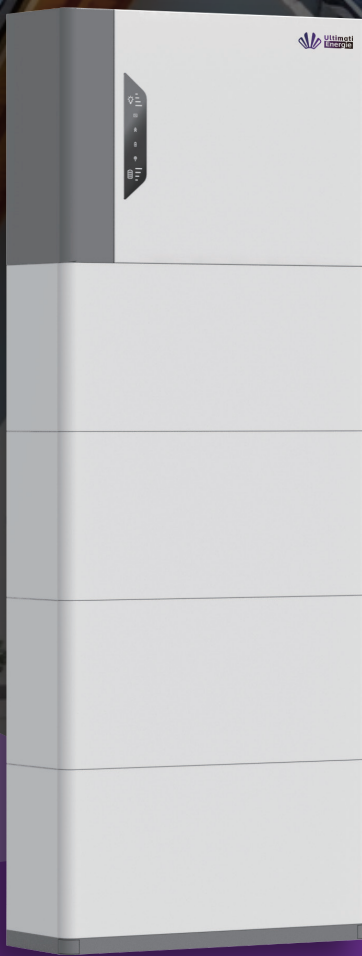


RESS RE-HA1



ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM
(HIGH VOLTAGE)



Smart Energy
Management

AI

UED App



Highly Integrated Design

Integrated design of PCS, BMS, and EMS (3S) to enhance system stability.



High Power Density

Maximum 12kW all-in-one system.

KEY FEATURES



Generator Compatibility

Supports generator input and auto remote start for generators.



Long Lifetime

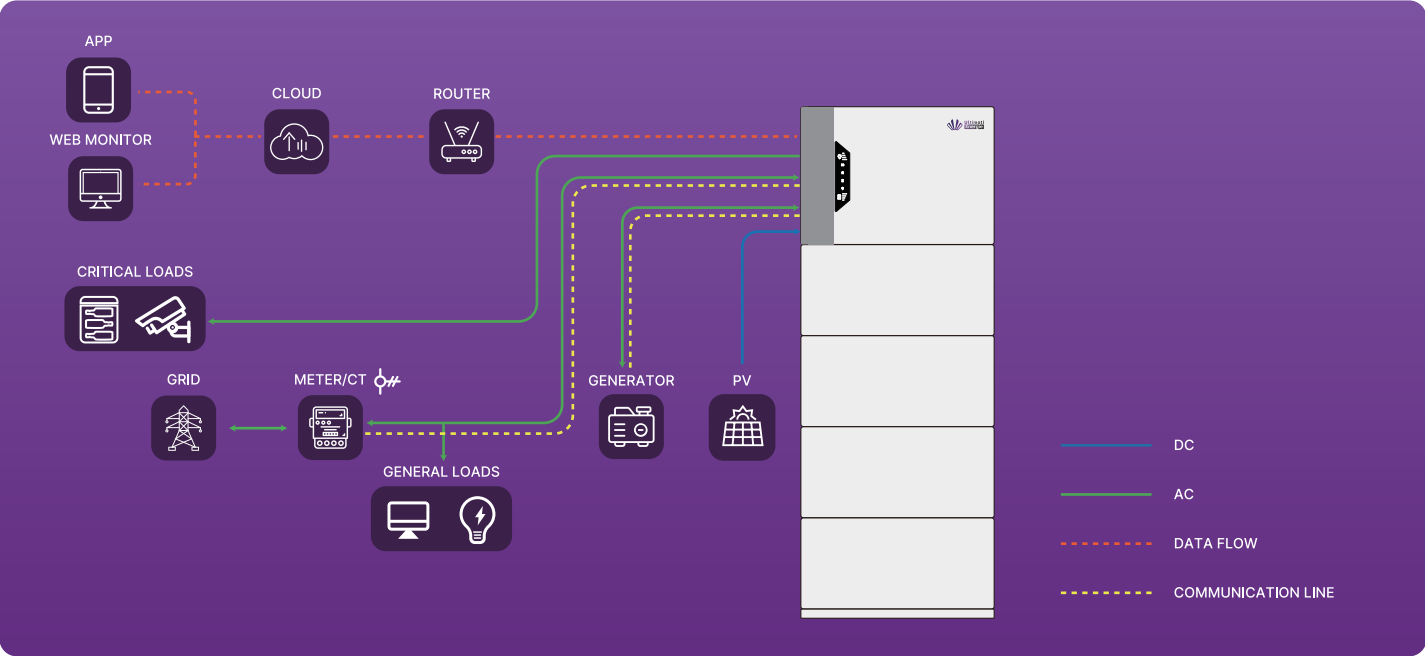
The system can support over 7000 cycles of lifetime.



Quick Installation

Quick-insert design for both power module and battery module to reduce installation time and cost.

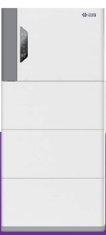
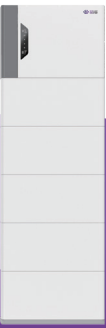
CONNECTION



PRODUCT HIGHLIGHTS

- Fully Integrated Design
PCS, BMS and EMS are fully integrated.
- High Power Density
Delivers up to 12kW/22.7kWh in a compact all-in-one unit with a footprint of only 0.15m².
- User-Friendly Operation and Maintenance
Features a multi-LED display, extensive communication support, and OTA functionality for easy software updates.

TECHNICAL DATA

			
All-in-one RESS Model	UE-8K-7.6-T2-HA1 UE-8K-11.4-T2-HA1 UE-8K-15.2-T2-HA1 UE-8K-19-T2-HA1 UE-8K-22.7-T2-HA1	UE-10K-7.6-T2-HA1 UE-10K-11.4-T2-HA1 UE-10K-15.2-T2-HA1 UE-10K-19-T2-HA1 UE-10K-22.7-T2-HA1	UE-12K-7.6-T2-HA1 UE-12K-11.4-T2-HA1 UE-12K-15.2-T2-HA1 UE-12K-19-T2-HA1 UE-12K-22.7-T2-HA1
Grid AC Input and AC Output			
Rated Output Apparent Power	8000VA	10000VA	12000VA
Rated Input Apparent Power	12000VA	14000VA	16000VA
Rated Output Current	11.6 A ac	14.5 A ac	17.4 A ac
Rated Input Current	17.4 A ac	20.3 A ac	23.2 A ac
Rated AC Voltage	380 V / 400 V / 415 V		
AC Rated Frequency	50 Hz/60 Hz		
Wiring	L1/L2/L3-N-PE		
Power Factor (cosΦ)	0.8 leading – 0.8 lagging		
THDI	<3%		

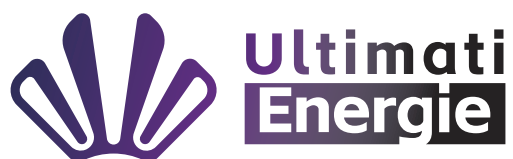
TECHNICAL DATA

All-in-one RESS Model	UE-8K-7.6-T2-HA1 UE-8K-11.4-T2-HA1 UE-8K-15.2-T2-HA1 UE-8K-19-T2-HA1 UE-8K-22.7-T2-HA1		UE-10K-7.6-T2-HA1 UE-10K-11.4-T2-HA1 UE-10K-15.2-T2-HA1 UE-10K-19-T2-HA1 UE-10K-22.7-T2-HA1	UE-12K-7.6-T2-HA1 UE-12K-11.4-T2-HA1 UE-12K-15.2-T2-HA1 UE-12K-19-T2-HA1 UE-12K-22.7-T2-HA1
Output(Back Up)				
Rated Output Apparent Power (Back Up)	8000VA		10000VA	12000VA
Backup Segment Output	2 groups			
THDV(@Linear Load)	<3%			
Switch Time	10ms			
PV String Input				
Recommended Max. PV Input Power	12000W	15000W	18000W	
MAX.PV Input Voltage	1000V			
Startup Voltage	150V			
MPPT Voltage Range	150V-950V			
Number of MPPTs	2			
Max. Number of PV Strings per MPPT	2			
Max. Input Current per MPPT	16A			
Max. Short-Circuit Current per MPPT	24A			
Reverse Connect Protection	Yes			
Efficiency				
MPPT Efficiency	99.90%	99.90%	99.90%	
Euro Efficiency	97.50%	97.50%	97.50%	
MAX. Efficiency	98.00%	98.00%	98.00%	
Battery				
Battery Type	LFP			
System Energy	7.6kWh/11.4kWh/15.2kWh/19kWh/22.7kWh			
Usable Energy [1]	7.2kWh/10.8kWh/14.4kWh/18kWh/21.7kWh			
Rated Battery Voltage	204.8V/307.2V/409.6V/512V/614.4V			
Number of Battery Modules	2/3/4/5/6			
Recommend Charging/Discharging Current	18.5A			
Max Charging/Discharging Current	37A			
Cycle Life	>=7000 cycles [2]			
Battery Auto Wake Up [3]	Yes			
Function				
CT/ Meter (Option)	Yes			
OTA	Yes			
Diesel Generator Support	Yes			
Safety Protection				
Protection Function	PV String reverse polarity protection, DC short circuit current protection, DC over current protection, DC over voltage protection, AC output short circuit current protection, AC output over current protection, AC over voltage protection, Anti-island protection, Leakage current detection, Ground connetion detection			
AFCI	Optional			
Rapid DC Voltage Cut Off	Optional			
Over Voltage Category	AC III ; DC II			
General				
Dimensions (W*H*D) (mm)	670*(1135/1450/1765/2080/2395)*230			
Net Weight	117kg/155kg/193kg/231kg/269kg			
Installation	Floor-mounted			
Operating Temperature Range	Charge :-10°C~50°C Discharge:-10°C~55°C			
Max. Operating Altitude	< 4000m (> 2000m power Derating)			
Relative Humidity Range	0~95% (No Condensation)			
Ingress Protection Rating	IP66			
Climatic Category	4K4H			
Cooling	Natural convection			
Noise	<35dB			
Communication	RS485/WLAN/Bluetooth/DRY/DRM/Meter, LAN/4G(Optional)			
Display	LED indicators / APP/ Web			
Warranty	10 years			
Standard				
Safefy	IEC/EN 62109-1&-2; IEC62619; CE; UN38.3			
EMC	IEC/EN 61000-6-1/-2/-3/-4; IEC/EN 61000-3-2/-3/-11/-12; IEC/EN 62920			
Grid Connection Standards	EN 50549-1:2019/AC:2019; VDE-AR-N 4105:2018; DIN VDE V 0124-100:2020; EN50549-1+EN50438; NA/EEA-NE7 – CH 2020; EIFS 2018: 2; OVE Directive R 25:2020; TOR Erzeuger Type A V1.2			

[1]Test Conditions - Temperature 25°C, at the beginning of life, cell charge voltage between 2.8~3.5V, 0.5C.

[2]25°C ambient temperature, recommended charging/discharging current.

[3]Battery can be auto waked up if inverter has power. No need turn on battery additional.



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Ultimati Energie-RE-HA1 | Rev. 02 | Jan. 2025