

URE Household Optical Storage System

Smart Optical Storage System,
Creating a Prosperous Era for
Environmental Protection

▶ About United Renewable Energy

United Renewable Energy Co., Ltd. (URE) integrated the upstream, middle stream and downstream of the green energy industry and created a new vision for Taiwanese industries. Passivated Emitter and Rear Cell (PERC) relevant products have matured and are moving towards production of high end technologies such as Heterojunction Technology (HJT) battery solar panel. Currently URE is heading in the direction of global energy storage strategy in order to provide a comprehensive total solution for renewable energy.

The establishment of URE will adhere to Taiwan's energy policies and assist in transformation and creation of Taiwanese solar energy enterprises that holds international competitiveness. This leads to a prosperous integration platform that will allow domestic green energy industry continue to thrive in Taiwan.

聯合再生能源

*United Renewable
Energy Co., Ltd.*



URE Household Optical Storage System



Support off grid or connecting grid requirements

Support various product applied scenarios that could directly do hybrid coupling or connect to the power distribution board for backup power.



Support mobile APP and could be operated remotely

Remote control household optical storage system via APP.



Used as a UPS

Used as a UPS to support household basic power when the utility power is disconnected.



Elegant and Stylish Product Appearance

The design is elegant and stylish, therefore the product is able to integrate with the household decorations.



Weather resistant outdoor rainproof mechanism

Could be placed outside when there is insufficient space indoors. Furthermore, the system is waterproof, dustproof and durable.

System Specifications

Model	MA1
AC Output Power	5kW
Maximum PV Input Power	6kW
System Battery Capacity	11.4kWh (5.7kWh * 2)
Useable Battery Capacity	10kWh (90% DoD)
Battery Type	Lithium iron phosphate (LFP)
Weather Resistant Mechanism	IP65 water resistant rating
Warranty Length	5 years under warranty and 10 years of maintenance warranty

Photovoltaic Inverter Specifications

Max. PV Input Current	12Ax2ports
Max. PV Input Voltage	580V dc
MPPT Part number	2 ports
MPPT Voltage Range	125V-550V
Max. Charge and Discharge Current	100A
Max. Charge and Discharge Power	5kW
Power Phase	Single phase
Rated Voltage Output	220-240Vac
Power Grid Voltage Range	180-270V

Rated Power Output	50/60Hz
Off-grid Switching Time	10-20mSec
Information Display	LCD
Working Environment Temperature	-10 -50°C
Working Environment Humidity	15% -85% (without condensation)
Dimensions	600x250x600mm
Weight	60kg
Connecting Grid Specification	VDE 4105, VDE0126, AS 4777.2/3, CE10-21,G59/3
Safety Specifications	IEC 62109-1&-2, CE-EMC

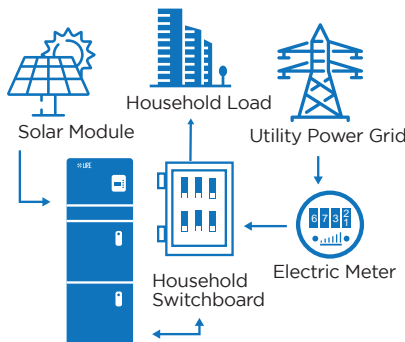
Battery and BMS Technical Parameters

Battery Module Model	MA1-BAT
Battery Capacity	5.7kWh
Battery Useable Capacity	5kWh (90%DoD)
Weight	65kg
Dimensions	600x250x600mm
Max. Number of Battery Parallel Circuit	6
Max. Charge and Discharge Current	56A (0.5C)
Lifecycle	≥6000 times

Product Application

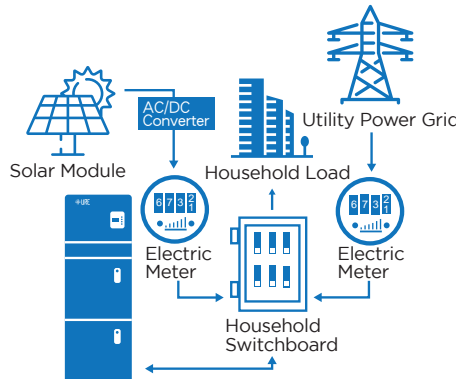
1. DC Coupling

The product is DC coupled with PV and mostly used in application of newly installed system.



2. AC Coupling

The product is AC coupled with PV and mostly used in the application of system modification.



3. Hybrid Coupling

The product is AC and DC hybrid coupled with PV and mostly used in application of solar module installation and system modification.

