

## Three-phase Residential Energy Storage System

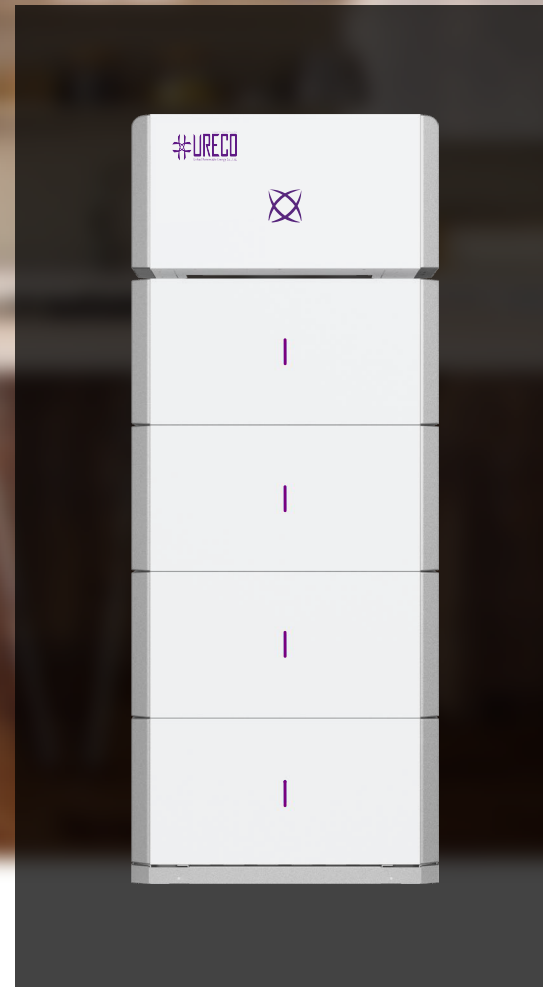
# Residential Energy Storage System

## Three-phase ESS

EUREKA Series

5kWh~20kWh

EUREKA series is an all-in-one solar battery system which consist of hybrid inverter and battery modules. Owners can build a new home energy storage system with EUREKA which can realize the maximum self-use of solar energy and reduce electricity bills. It is also very suitable for areas need backup power.



## Product Features



### Simple

- All-in-one design, modular installation
- 1-8 batteries flexible expansion



### Safe

- Physical and electrical dual isolation
- Modular fire protection integration



### Smart

- Independent battery mangement, mix old and new batteries
- Built-in EMS function

# System Specification

Model	H005B1	H010B1	H020B1
<b>General</b>			
System capacity	5kWh	10kWh	20kWh
Rated system power		10kW	
Dimension (W*H*D)	800*1995*240mm/31.49*78.54*9.45in (four battery modules, with foundation)		
Noise		<35dB	
Cooling type		Natural cooling	
Altitude	3000m/9842ft (Derating above 2000m/6561ft)		
Operating temperature		-20~50°C/-4~122°F	
Recommended operating temperature		15~30°C/59~86°F	
Operating humidity		0~100%RH (Non-condensing)	
Display		LED & APP	
Installation method		Floor or Wall-mounted (optional)	

\* Specifications are subject to change without prior notice.

# Hybrid Inverter Specification

Inverter parameter	
<b>DC Input (PV)</b>	
Recommended Max. PV input power	29kWp
Max. PV input voltage	1000Vdc
No. of MPPTs	2
No. of PV strings per MPPT	2/1
Max. PV input current	27A/16A
Max. short current	34A/20A
MPPT voltage range	150~900Vdc
Starting voltage	180Vdc
DC (PV) switch	Yes
<b>DC Input and Output (Battery)</b>	
Battery voltage range	650~900Vdc
Max. charge/discharge current	24.6A
<b>AC Input and Output (On-grid)</b>	
Rated AC output power	10kW
Rated AC output voltage	380/400Vac, 3W/N/PE
Grid voltage range	323-418Vac/340-440Vac
Max. output current	16A
Max. input current	26A
Rated grid frequency	50Hz
Grid frequency range	45~55Hz
Power factor	>0.99 (rated power)
Adjustable power factor	0.8 (leading)~0.8(lagging)
THDi	<3% (rated power)
<b>AC Output (Off-grid)</b>	
Rated AC output voltage	380/400Vac, 3W/N/PE
Rated output frequency	50Hz
Rated output power	10kW
Peak output power	20kW, 60s
Peak output current	30.4A, 60s
Switch time <sup>1</sup>	<10ms
Support the unbalance load	Yes
<b>Efficiency</b>	
Max. efficiency	98.3%
European efficiency	97.5%
<b>General</b>	
Weight	27kg/59.52lb (including side plates)
Dimension (W*H*D)	800*400*200mm/31.49*15.78*7.87in (including side plates)
Protections	AFCl(optional),Anti-islanding protection, DC reverse polarity protection, Insulation monitoring, DC/AC surge protection, AC short-circuit protection
Enclosure type	IP65
Communication Interface	Portal-WiFi (standard)/4G (optional), RS485
Compliance	EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-1/2/3/4, EN 50549-1 NC RfG, PPDS, CEI 0-21, VDE AR-N-4105, VDE V 0124-100, TOR Erzeuger Typ A <sup>2</sup>

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<sup>1</sup> Except for countries with special requirements.

<sup>2</sup> Certification is available in Q4.

# Lithium-ion Battery Module

## Product Features



Modular fire protection integration



Quick plug connector



Integrated single-battery pack energy management optimization circuit



Battery module parameters	
<b>General</b>	
Cell technology	LiFePO4
Energy capacity	5kWh
Usable capacity <sup>1</sup>	5kWh
Scalability (Max.)	8
Scalable capacity range	5~40kWh
DoD	Max. 100 % DOD
Rated power	4kW
Voltage range	650~900Vdc
Maximum charge current	6.15A
Maximum discharge current	6.15A 7.38A,10s
Dimension (W*H*D)	800*380*238mm/31.49*14.6*9.37in (including side plates)
Weight	52kg/114.64lb (including side plates)
Operating temperature	-20~50°C/-4~122°F
Recommended operating temperature	15~30°C/59~86°F
Humidity	0~100%RH (Non-condensing)
Altitude	3000m/9842ft (Derating above 2000m/6561ft)
cooling type	Natural cooling
Display	LED
Communication interface	RS485, CAN
Topology	Isolated
Connection method	Floor or Wall mounted (optional)
Enclosure type	IP65
Certification	IEC 62619, IEC 60730, UN 38.3

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\*1 Test conditions: 25°C, 0.2C change & discharge,100% depth of discharge(DoD).

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