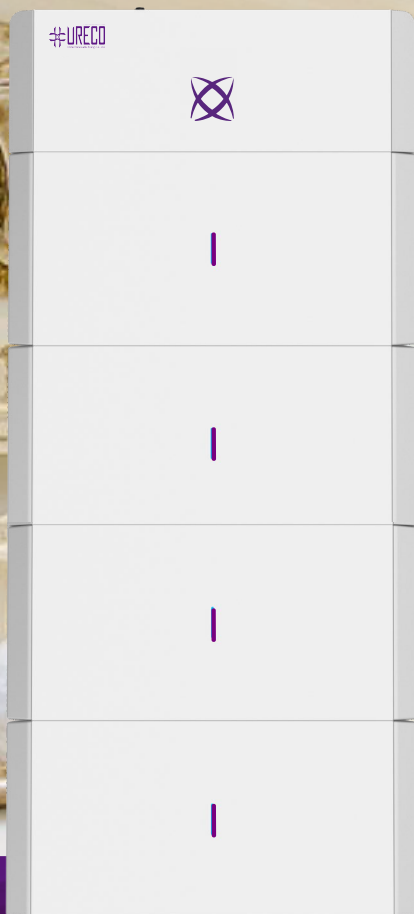


EUREKA Series



**Single-phase
Residential Energy
Storage System**

H020A

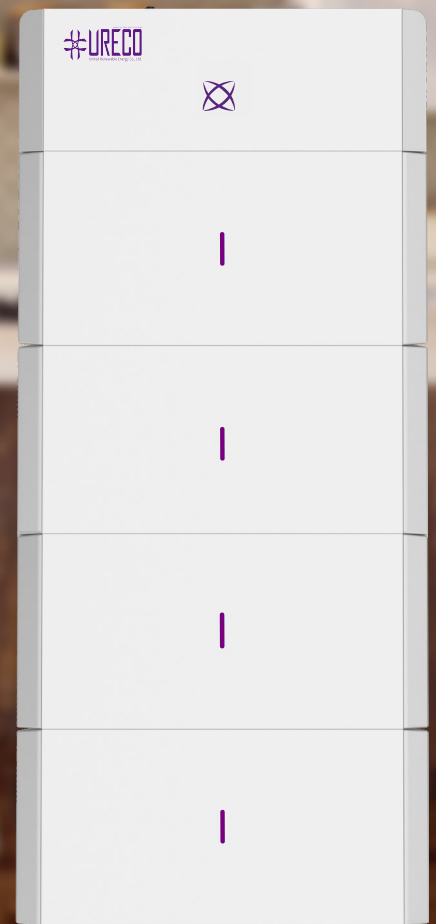
Residential Energy Storage System

Single-phase ESS

H020A

20kWh

EUREKA 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 H020A 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 management, mix old and new batteries
- Built-in EMS function

System Specification

Model	H020A
General	
System capacity	20kWh
Rated system power	6kW
Dimension (W*H*D)	800*1850*240mm/31.49* 42.91*9.4 in (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	
DC Input (PV)	
Recommended Max. PV input power	9.0kWp
Max. PV input voltage	580Vdc
No. of MPPTs	2
No. of PV strings per MPPT	1/1
Max. PV input current	15A/15A
Max. short current	18.75A/18.75A
MPPT voltage range	100~550Vdc
Starting voltage	120Vdc
DC (PV) switch	Yes
DC Input and Output (Battery)	
Battery voltage range	360~500Vdc
Max. charge/discharge current	25A
AC Input and Output (On-grid)	
Rated AC output power	6.0kW
Rated AC output voltage	230Vac
Grid voltage range	180~270Vac
Max. output current	26.1A
Max. input current	52.2A
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)
AC Output (Off-grid)	
Rated AC output voltage	230Vac
Rated output frequency	50Hz
Rated output power	6.0kW
Peak output power	7.8kW, 60s
Switch time ¹	<10ms
Efficiency	
Max. efficiency	97.70%
European efficiency	97.10%
General	
Weight	17kg/37.47lb (including side plates)
Dimension (W*H*D)	800*280*233mm/31.49*11.02*9.17in (including side plates)
Protections	AFCI(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 61000-6-2/3, EN IEC 61000-3-11, EN 61000-3-12, VDE-AR-N 4105, VDE V 0124-100, G98 ² , G99 ² , XP C15-712-3, VDE V 0126-1-1, EN 50549-1, CEI 0-21, AS 4777.2 ² , NTS SEPE:V2.1, UNE 217002, UNE 217001

*Specifications are subject to change without prior notice.

¹ Except for countries with special requirements.

² 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	
General	
Cell technology	LiFePO4
Energy capacity	5kWh
Usable capacity ¹	5kWh
Scalability (MAX.)	8
Scalable capacity range	5~40kWh
DOD	Max. 100 % DOD (settable)
Rated power	4kW
Voltage range	360~500Vdc
Maximum charge current	11.11A
Maximum discharge current	11.11A 13.33A,10s
Dimension (W*H*D)	800*380*238mm/31.49*14.6*9.37in (including side plates)
Weight	51kg/112.43lb (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, IEC 62040-1

* Specifications are subject to change without prior notice.

*1 Test conditions: 25°C, 0.2C charge & discharge, 100 % depth of discharge (DOD).

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