



Honor ESS series

Honor ESS series brings storage solutions to European and American customers with safe performance and first-class quality



Flexible capacity options

Stackable module design, easily extend 5kWh per module, scalable from 5 to 60kWh



HonorESS series

HV ESS series



Easy to install

Stack and play, without wire connection
Compact and Light,
1~2 persons installation



Excellent low temp. performance (Optional)

Operate at -10°C without any limitation and attenuation



Battery APP

Real time monitoring
Remote maintenance and upgrades



Safe and long-life LiFePO4 (LFP) technology



Versatile configuration (5~60kWh), upgrade at any time



High voltage (~400V) enabled by built-in DC-DC



Compatible with mainstream hybrid or battery-only solar inverters (over 10 brands)



Optimized for both grid-tied and off grid application



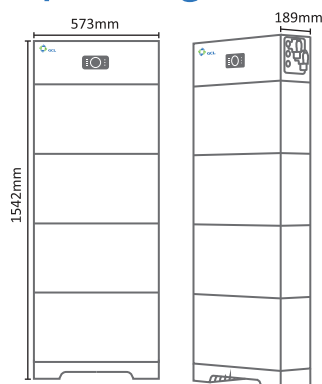
Optional CO₂ offset

Electrical characteristics

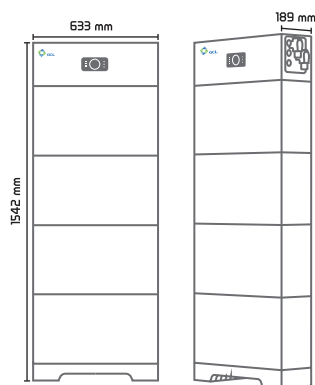
Model	RY-5-S1	RY-10-S1	RY-15-S1	RY-20-S1
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (90%DOD)	4.5kWh	9kWh	13.5kWh	18kWh
Rated voltage	51.2V	51.2V	51.2V	51.2V
Charge/discharge cut off voltage	46.4V~55.2V	46.4V~55.2V	46.4V~55.2V	46.4V~55.2V
Rated charge/discharge current	50A/50A	100A/100A	150A/150A	200A/200A
Max. charge/discharge current	100A/100A	180A/180A	200A/200A	200A/200A
Max. discharge power	4.64kW	9.28kW	9.28kW	9.28kW
Roundtrip efficiency	>95%	>95%	>95%	>95%
DC disconnect	Circuit breaker, 250A, 48V rating			
Connection method	Easy plug and unplug terminals			
User interface	Display battery running status, SOC, alarm information, WIFI status, heater status, etc.			
Protection features	Charging overvoltage protection, discharge under voltage protection, over current protection, over temperature protection, short circuit protection, etc.			
Communication interface	CAN 2.0/ RS485			

Model	RY-5-HVS1	RY-10-HVS1	RY-15-HVS1	RY-20-HVS1
Nominal energy	5kWh	10kWh	15kWh	20kWh
Usable energy (90%DOD)	4.5kWh	9kWh	13.5kWh	18kWh
Rated voltage	409.6V	409.6V	409.6V	409.6V
Charge/discharge cut off voltage	350V~450V	350V~450V	350V~450V	350V~450V
Round trip efficiency	>95%	>95%	>95%	>95%
Rated charge/discharge power	2.5kW	2.5kW	2.5kW	2.5kW
Max. charge/discharge power	3.5kW@10s	7kW@10s	10.5kW@10	14kW@10s
Communication interface	CAN 2.0 / RS485/WiFi/LAN			
DC disconnect	Circuit breaker, 50A, 410V rating			
Connection method	Easy plug and unplug terminals			
User interface	Display battery running status, SOC, alarm information, WIFI status, heater status, etc.			
Protection features	Charging overvoltage protection, discharge under voltage protection, over current protection, short circuit protection, high and low temperature protection, DC reverse polarity protection, etc.			
Scalability	Max. 3 in parallel, Max. 60 kWh			

Operating conditions



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HV ESS series

	Honor ESS series	HV ESS series
Installation location	Outdoor or indoor	
Operating temperature	-10°C to 50°C (14°F to 122°F)	
Operating temperature (Recommended)	(59°F to 86°F) 15 °C to 30°C	
Storage temperature	(-22°F to 140°F) -30 °C to 60°C	
Humidity	10% to 95%, non condensation	
Dimensions (W*H*D, mm)	573*(597/912/1227/1542)*189	633*(597/912/1227/1542)*189
Weight	65/115/165/215kg	
Altitude	<2000m	
Cooling	Natural ventilation	
Enclosure rating	IP55	
Warranty	5years/10years	
Certificates		
Safety	IEC62619/CE/UL1973/ FCC/UL9540/UL9540A	IEC62619/CE/UL1973
Transport	UN38.3	