



# Certificate of Compliance

**Certificate:** 80014881

**Master Contract:** 273488

**Project:** 80014881

**Date Issued:** 2020-07-20

**Issued To:** Ginlong Technologies Co., Ltd.  
No.57, Jintong Road, Xiangshan  
Ningbo, Zhejiang, 315712,  
China

**Attention:** Mr. Ruyi Pan

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicator 'US'*

**Issued by:** Peng (Cheney) Chen  
Peng (Cheney) Chen



## **PRODUCTS**

CLASS 3701-84 ELECTRICAL ENERGY STORAGE SYSTEMS - Certified to US Standard.

Li-ion Battery Energy Storage System (Pre-Engineered of Matched Component), models HS@K-LG-RESU10H.  
@ - may be 5,6,7,7.6,8,9,10, which is corresponding to different Inverters used in the system, represents different AC output rating on the Grid side.

Model Difference:

HS@K-LG-RESU10H are similar to each other, except for the different Inverters used in the system.

Refer to following table for main components included in Battery Energy Storage System .



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Model/Component	HS@K-LG-RESU10H	
Inverter	@	Inverter Model Number
	5	RHI-1P5K-HVES-5G
	6	RHI-1P6K-HVES-5G
	7	RHI-1P7K-HVES-5G
	7.6	RHI-1P7.6K-HVES-5G
	8	RHI-1P8K-HVES-5G
	9	RHI-1P9K-HVES-5G
	10	RHI-1P10K-HVES-5G
Battery Pack (Note 1)	RESU10H/R15563P3SSEG	

**Note1:** The model RESU10H is identical with model R15563P3SSEG except for model designation.

Electrical Ratings:

Refer to below table for the ratings of the Battery Energy Storage System.

Model	HS@K-LG-RESU10H						
	Charge Mode			Utility Interactive Mode		Off Grid Mode	
INPUT RATINGS:	PV Port	AC Grid Port		PV Port	Battery Port	PV Port	Battery Port
Input Voltage, V	90~450 Vdc	Peak, Vac	Rated, Vac	90~450Vd c	450~350 Vdc	90~450V dc	450~350 Vdc
		264	240				
		228	208				
Max Input Current, A	26A <sub>dc</sub> (per MPPT)	48Arms		26A <sub>dc</sub> (per MPPT)	14.3 A at 350 V	26A <sub>dc</sub> (per MPPT)	14.3 A at 350 V
Max Input Power, W	-	11520W		-	5000	-	5000
Number of Phase	-	Single Phase		-	-	-	-
Frequency, Hz	-	59.5-60.5		-	-	-	-
OUTPUT RATINGS:							
Output Voltage, V	350~450Vdc			Peak, Vac	Rated, Vac	Peak, Vac	Rated, Vac
				264	240	264	240
				228	208	132	120
Max Output Current, A	11.9 A at 420 V			<b>(Note 2)</b>		25A at 240V <sub>nom</sub>	
Max Output Power, W	5000			<b>(Note 2)</b>		6000	
Number of Phase	-			Single Phase		Split Phase	
Frequency, Hz	-			59.5-60.5		55~65	
OTHER RATINGS:							



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Model	HS@K-LG-RESU10H		
	Charge Mode	Utility Interactive Mode	Off Grid Mode
Cooling	Nature convection		
Operating Temperature Range, °C	-10~45		
Special Environmental Ratings	Indoor/Protected Outdoor Use (Residential use only)		
Max short circuit Current	377.9A <sub>pk</sub>		
Battery Enclosure Rating	IP55		
Inverter Enclosure Rating	Type 4X		
Overvoltage category of Battery	II		
Overvoltage category of Inverter	III/IV		

**Note 2:** Corresponding to different Inverter used in the system, details see below Table.

Inverter Model	Max Output Current, A	Max Output Power, W
RHI-1P5K-HVES-5G	24A <sub>ac</sub> at 208V <sub>ac</sub> 21A <sub>ac</sub> at 240 V <sub>ac</sub>	5000
RHI-1P6K-HVES-5G	28.8A <sub>ac</sub> at 208 V <sub>ac</sub> 25A <sub>ac</sub> at 240 V <sub>ac</sub>	6000
RHI-1P7K-HVES-5G	33.7A <sub>ac</sub> at 208 V <sub>ac</sub> 29.2A <sub>ac</sub> at 240 V <sub>ac</sub>	7000
RHI-1P7.6K-HVES-5G	36.5A <sub>ac</sub> at 208 V <sub>ac</sub> 31.7A <sub>ac</sub> at 240 V <sub>ac</sub>	7600
RHI-1P8K-HVES-5G	38.5A <sub>ac</sub> at 208 V <sub>ac</sub> 33.3A <sub>ac</sub> at 240 V <sub>ac</sub>	8000
RHI-1P9K-HVES-5G	43.3A <sub>ac</sub> at 208 V <sub>ac</sub> 37.5A <sub>ac</sub> at 240 V <sub>ac</sub>	9000
RHI-1P10K-HVES-5G	48A <sub>ac</sub> at 208 V <sub>ac</sub> 41.7A <sub>ac</sub> at 240 V <sub>ac</sub>	10000

**Conditions of Acceptability:**

1. The acceptability of grid support utility interactive inverters shall be determined by the local electric utility.
2. The installation was not evaluated. The ESS shall be installed in accordance with applicable local installation code NFPA 70, IEEE C2, ICC IFC, ICC IRC, NRC NFC, NFPA 1, NFPA 855 and etc. as applicable.
3. This is a residential use only which is not designed for seismic or coastal regions, also arc flash risk is not considered.
4. As the ESS will be shipped out with only battery pack, inverter, and necessary accessory, herein, Grounding and Bonding System Check test may be considered in the installation site, determined by the local AHJ.

**APPLICABLE REQUIREMENTS**

ANSI/UL-9540:2016 - Energy Storage Systems and Equipment, 1st Edition.



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**MARKINGS**

See CSA report.



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80014881	2020-07-20	Original certification for Li-ion battery energy storage system (Pre-Engineered of Matched Component), models HS@K-LG-RESU10H to ANSI/UL-9540:2016. @ - may be 5,6,7,7.6,8,9,10, which is corresponding to different Inverters used in the system, represents different AC output rating on the Grid side.