

# Test Verification of Conformity

Verification Number: 240500713SHA-V1

The product(s) listed is/are evaluated by a Thirty Part Body and deemed to meet the listed harmonized standard(s) listed in below. This Verification of Conformity can be used in support of a claim in meeting the EU/UK Low Voltage Directive (LVD) (2014/35/EU) and mandatory Conformity Marking requirements. And in accordance with the EU/UK law, the claim is the sole obligation of the Manufacturer/Importer.

Applicant Name & Address:	Jiangsu Daybright Intelligent Energy Co.,Ltd No. 223, Jiangjun Avenue, Jiangning District, Nanjing Jiangsu P.R. China, 211106.
Product Description:	AC coupled inverter
Ratings & Principle Characteristics:	See Appendix(Specifications table)
Models/Type References:	AC*-1L (*=1K, 1K5, 2K, 2K5, 3K, 3K6, 4K, 4K6, 5K, 5K5, 6K)
Brand Name:	
Relevant Standards:	IEC/EN 62109-1:2010 IEC/EN 62109-2:2011 the Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	2024-05-15 to 2024-06-17
Test Report Number(s):	240500713SHA-001/002

Additional information in Appendix.

  
Signature

Name: Max Jin

Position: General Manager

Date: 2024-06-27

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## APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240500713SHA-V1

Manufacturer:

Same as applicant

Specifications table				
Model	AC1K-1L	AC1K5-1L	AC2K-1L	AC2K5-1L
<b>Battery</b> (charge/discharge)				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)			
Max charge/discharge Current(A)	25	40	50	63
Max charge/discharge Power(W)	1000	1500	2000	2500
<b>AC Grid (input and output)</b>				
Normal AC Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Normal AC Current (A)	4.4	6.6	8.7	10.9
Max. cont. input/output current (A)	5	7	10	12
Rated Power(W)	1000	1500	2000	2500
Rated Apparent Power (VA)	1000	1500	2000	2500
Max. cont. Power (W)	1000	1500	2000	2500
Max. cont. Apparent Power (VA)	1000	1500	2000	2500
Power factor (adjustable)	1.0( -0.8~ +0.8)			
<b>AC Load output (stand alone)</b>				
Normal Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Nominal Current(A)	4.4	6.6	8.7	10.9
Max. cont. current (A)	5	7	10	12
Max. cont. Power (W)	1000	1500	2000	2500
Rated Apparent Power (VA)	1000	1500	2000	2500
Max. cont. Apparent Power (VA)	1000	1500	2000	2500
Power factor	1.0			
<b>Others</b>				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (AC-BAT)			
Overvoltage category	OVC III (AC Main)			
Firmware	1.01			

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## APPENDIX: Test Verification of Conformity

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Specifications table				
Model	AC3K-1L	AC3K6-1L	AC4K-1L	AC4K6-1L
<b>Battery (charge/discharge)</b>				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)			
Max charge/discharge Current(A)	80	80	120	120
Max charge/discharge Power(W)	3000	3600	4000	4600
<b>AC Grid (input and output)</b>				
Normal AC Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Normal AC Current (A)	13.1	15.7	17.4	20
Max. cont. input/output current (A)	14	17	19	22
Normal Power (W)	3000	3600	4000	4600
Rated Apparent Power (VA)	3000	3600	4000	4600
Max. cont. input/output Power (W)	3000	3600	4000	4600
Max. cont. Apparent Power (VA)	3000	3600	4000	4600
Power factor(adjustable)	1.0( -0.8~ +0.8)			
<b>AC Load output (stand alone)</b>				
Normal Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Nominal Current (A)	13.1	15.7	17.4	20
Max. cont. current (A)	14	17	19	22
Max. cont. Power (W)	3000	3600	4000	4600
Rated Apparent Power (VA)	3000	3600	4000	4600
Max. cont. Apparent Power (VA)	3000	3600	4000	4600
Power factor	1.0			
<b>Others</b>				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (AC-BAT)			
Overvoltage category	OVC III (AC Main)			
Firmware	1.01			

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Specifications table				
Model	AC5K-1L	AC5K5-1L	AC6K-1L	
<b>Battery (charge/discharge)</b>				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)			
Max charge/discharge Current(A)	120	120	120	
Max charge/discharge Power(W)	5000	5500	6000	
<b>AC Grid (input and output)</b>				
Normal AC Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Normal AC Current (A)	21.8	24	26.1	
Max. cont. input/output current (A)	23	26	28	
Normal Power (W)	5000	5500	6000	
Rated Apparent Power (VA)	5000	5500	6000	
Max. cont. input/output Power (W)	5000	5500	6000	
Max. cont. Apparent Power (VA)	5000	5500	6000	
Power factor(adjustable)	1.0( -0.8~ +0.8)			
<b>AC Load output (stand alone)</b>				
Normal Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Nominal Current(A)	21.8	24	26.1	
Max. cont. current (A)	23	26	28	
Max. cont. Power (W)	5000	5500	6000	
Rated Apparent Power (VA)	5000	5500	6000	
Max. cont. Apparent Power (VA)	5000	5500	6000	
Power factor	1.0			
<b>Others</b>				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (AC-BAT)			
Overvoltage category	OVC III (AC Main)			
Firmware	1.01			

Signature



Name: Max Jin

Position: General Manager

Date: 2024-06-27

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