


Certificate of Conformity

Certificate Number: CN-PVES-240294

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant:	Jiangsu Daybright Intelligent Energy Co.,Ltd No. 223, Jiangjun Avenue, Jiangning District, Nanjing Jiangsu P.R. China, 211106
Product:	Hybrid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	HV*-1L-1(*=1K, 1K5, 2K, 2K5, 3K, 3K6) HV*-1L-X(*=3K, 3K6, 4K, 4K6, 5K, 5K5, 6K) HV*-1L(*=4K, 4K6, 5K, 5K5, 6K)
Brand Name<s>:	
Product Complies with:	EN 50549-1:2019 Requirements for the connection of generation equipment in parallel with public distribution networks.
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	240500714SHA-001

Additional information in Appendix.


Signature

Certification Manager: Qiao Qiao
Date: 26 June 2024



PRD N° 306B

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240294

Ratings & Principle Characteristics:

Specifications table					
Model	HV1K-1L-1	HV1K5-1L-1	HV2K-1L-1	HV2K5-1L-1	HV3K-1L-1
Input					
Ppv Max (W)	1500	2300	3000	3800	4500
Vmax PV (V)	550	550	550	550	550
Isc PV (absolute Max.) (A)	26	26	26	26	26
Number of MPP trackers	1	1	1	1	1
Number of input strings	1	1	1	1	1
Max. PV input range (A)	18.5	18.5	18.5	18.5	18.5
MPPT Voltage Range (V)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (V)	80-500	90-500	120-500	150-500	170-500
Battery (input and output)					
Battery type	Li-ion / lead acid etc.				
Battery Nominal Voltage (V)	51.2				
Battery Voltage Range (V)	40-60				
Max. Charge/Discharge Current (A)	25	40	50	63	80
Max. Charge/Discharge Power (W)	1000	1500	2000	2500	3000
AC Grid (input and output)					
Nominal Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	5	7	10	12	14
Nominal Power (W)	1000	1500	2000	2500	3000
Max. Power (W)	1000	1500	2000	2500	3000
Max. apparent Power (VA)	1000	1500	2000	2500	3000
Power Factor	1(-0.8~+0.8 adjustable)				
AC Load output					
Nominal Output Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	5	7	10	12	14
Nominal Output Power(W)	1000	1500	2000	2500	3000
Max. Output Power (W)	1000	1500	2000	2500	3000
Max. apparent Power (VA)	1000	1500	2000	2500	3000
Power Factor	1				
others					
Ingress protection (IP)	IP65				
Temperature (°C)	-25°C to +60°C (Derating45°C)				
Inverter Isolation	Non-isolated(PV - AC - BAT)				
Firmware Version	1.01				

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240294

Ratings & Principle Characteristics:

Specifications table					
Model	HV3K6-1L-1	HV3K-1L-X	HV3K6-1L-X	HV4K-1L-X	HV4K6-1L-X
Input					
Ppv Max (W)	5400	4500	5400	6000	6900
Vmax PV (V)	550	550	550	550	550
Isc PV (absolute Max.) (A)	26	26 x 2	26 x 2	26 x 2	26 x 2
Number of MPP trackers	1	2	2	2	2
Number of input strings	1	1/1	1/1	1/1	1/1
Max. PV input range (A)	18.5	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2
MPPT Voltage Range (V)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (V)	210-500	90-500	110-500	120-500	130-500
Battery (input and output)					
Battery type	Li-ion / lead acid etc.				
Battery Nominal Voltage (V)	51.2				
Battery Voltage Range (V)	40-60				
Max. Charge/Discharge Current (A)	80	80	80	80	80
Max. Charge/Discharge Power (W)	3600	3000	3600	4000	4600
AC Grid (input and output)					
Nominal Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	17	14	17	19	22
Nominal Power (W)	3600	3000	3600	4000	4600
Max. Power (W)	3600	3000	3600	4000	4600
Max. apparent Power (VA)	3600	3000	3600	4000	4600
Power Factor	1(-0.8~+0.8 adjustable)				
AC Load output					
Nominal Output Voltage (V)	L/N/PE. 230Vac				
Nominal Frequency (Hz)	50				
Max. continuous Input/output Current (A)	17	14	17	19	22
Nominal Output Power(W)	3600	3000	3600	4000	4600
Max. Output Power (W)	3600	3000	3600	4000	4600
Max. apparent Power (VA)	3600	3000	3600	4000	4600
Power Factor	1				
others					
Ingress protection (IP)	IP65				
Temperature (°C)	-25°C to +60°C (Derating45°C)				
Inverter Isolation	Non-isolated(PV - AC – BAT)				
Firmware Version	1.01				

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240294

Ratings & Principle Characteristics:

Specifications table			
Model	HV5K-1L-X	HV5K5-1L-X	HV6K-1L-X
Input			
Ppv Max (W)	7500	8300	9000
Vmax PV (V)	550	550	550
Isc PV (absolute Max.) (A)	26 x 2	26 x 2	26 x 2
Number of MPP trackers	2	2	2
Number of input strings	1/1	1/1	1/1
Max. PV input range (A)	18.5 x 2	18.5 x 2	18.5 x 2
MPPT Voltage Range (V)	80-500	80-500	80-500
Vdc range @ full power (V)	150-500	160-500	170-500
Battery (input and output)			
Battery type	Li-ion / lead acid etc.		
Battery Nominal Voltage (V)	51.2		
Battery Voltage Range (V)	40-60		
Max. Charge/Discharge Current (A)	80	80	80
Max. Charge/Discharge Power (W)	4800	4800	4800
AC Grid (input and output)			
Nominal Voltage (V)	L/N/PE. 230Vac		
Nominal Frequency (Hz)	50		
Max. continuous Input/output Current (A)	23	26	28
Nominal Power (W)	5000	5500	6000
Max. Power (W)	5000	5500	6000
Max. apparent Power (VA)	5000	5500	6000
Power Factor	1(-0.8~+0.8 adjustable)		
AC Load output			
Nominal Output Voltage (V)	L/N/PE. 230Vac		
Nominal Frequency (Hz)	50		
Max. continuous Input/output Current (A)	23	26	28
Nominal Output Power(W)	5000	5500	6000
Max. Output Power (W)	5000	5500	6000
Max. apparent Power (VA)	5000	5500	6000
Power Factor	1		
others			
Ingress protection (IP)	IP65		
Temperature (°C)	-25°C to +60°C (Derating45°C)		
Inverter Isolation	Non-isolated(PV - AC - BAT)		
Firmware Version	1.01		

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240294

Ratings & Principle Characteristics:

Specifications table					
Model	HV4K-1L	HV4K6-1L	HV5K-1L	HV5K5-1L	HV6K-1L
PV input					
P pv Max(W)	6000	6900	7500	8300	9000
Vmax PV (Vdc) (absolute Max.)	550	550	550	550	550
Isc PV (absolute Max.) (A)	26 x 2	26 x 2	26 x 2	26 x 2	26 x 2
Number MPP trackers	2	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1	1/1
Max. PV input current / strings (A)	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2
MPPT voltage range (Vdc)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (Vdc)	120-500	130-500	150-500	160-500	170-500
Battery (charge/discharge)					
Battery type	Li-ion/Lead-acid				
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)				
Max charge/discharge Current(A)	120	120	120	120	120
Max charge/discharge Power(W)	4000	4600	5000	5500	6000
AC Grid (input and output)					
Normal AC Voltage (VAC)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Normal AC Current (A)	17.4	20	21.8	24	26.1
Max. cont. input/output current (A)	19	22	23	26	28
Rated Power(W)	4000	4600	5000	5500	6000
Rated Apparent Power (VA)	4000	4600	5000	5500	6000
Max. cont. Power (W)	4000	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4000	4600	5000	5500	6000
Power factor (adjustable)	1.0(-0.8~ +0.8)				
AC Load output					
Normal Voltage (VAC)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Nominal Current(A)	17.4	20	21.8	24	26.1
Max. cont. current (A)	19	22	23	26	28
Max. cont. Power (W)	4000	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4000	4600	5000	5500	6000
Power factor	1.0				
Others					
Ingress protection (IP)	IP65				
Protective class	Class I				
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)				
Inverter Isolation	Non-isolated (PV - AC - BAT)				
Overvoltage category	OVC III (AC Main), OVC II (PV)				
Firmware	1.01				

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.