ATTESTATION

of conformity with European Directives

BV LCIE CHINA Number	**N°2366AB12BVKJ52891**
Product	**Grid-connected hybrid Inverter**
Brand	**HANCHU ESS**
Reference	**Refer to report for details**
Issued to	**Jiangsu Hanchu Energy Technology Co.,Ltd**
Address	**No.588,Jinhui Road,Huishan District ,Wuxi City,Jiangsu Province,China**
Manufacturer	**Jiangsu Hanchu Energy Technology Co.,Ltd**
Address	**No.588,Jinhui Road,Huishan District ,Wuxi City,Jiangsu Province,China**
Technical characteristics	**Refer to report for details**

he submitted sample of the above equipment has been tested for CE marking according to following European Directive and following standards:

RE Directive 2014/53/EU*

Standards	Report number	Report date
Article 3.1(a) Safety: **--(*)**	--	--
Article 3.1(a) Health: **EN 50665:2017, EN IEC 62311:2020**	**BVKJ-ESH-P23121382B-4**	**12/27/2023**
Article 3.1(b) EMC: **EN 301 489-1 V2.2.3 (2019-11)** **EN 301 489-17 V3.2.4 (2020-09)** **EN 62920:2017+A11:2020, EN 62920:2017+A1:2021** **EN 61000-6-1:2007, EN IEC 61000-6-1:2019** **EN 61000-6-2:2005+AC:2005, EN IEC 61000-6-2:2019** **EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 61000-6-3:2021** **EN 61000-6-4:2007+A1:2011, EN IEC 61000-6-4:2019** **EN 61000-2-2:2002+A1:2017, EN 61000-2-2:2002+A2:2019** **EN 55011:2016+A1:2017, EN 55011:2016+A11:2020** **EN 55011:2016+A2:2021** **EN 61000-3-11:2000, EN IEC 61000-3-11:2019** **EN 61000-3-12:2011** **EN 61000-3-2:2014, EN IEC 61000-3-2:2019+A1:2021** **EN 61000-3-3:2013+A1:2019, EN 61000-3-3:2013+A2:2021,** **EN 61000-3-3:2013+A2:2021+AC:2022**	**BVKJ-ESH-P23121382B-2** **BVKJ-ESH-P23121382B-1**	**12/27/2023** **12/27/2023**
Article 3.2 Radio: **EN 300 328 V2.2.2 (2019-07)**	**BVKJ-ESH-P23121382B-3**	**12/27/2023**

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(*) The safety part was declared by Manufacturer.

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive

This verification does not imply assessment of the production of the product

The CE marking may be affixed if all relevant and effective European Directives with CE are applicable

Shanghai (P.R. China), Dec.27, 2023

CE

Daniel SUN

Operation Manager

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Appendix I: Detail technical Information of products

Model		HESS-HY-T -05K	HESS-HY-T -06K	HESS-HY-T -08K	HESS-HY-T -10K	HESS-HY-T -12K
PV input	VMaxpv [Vdc]	1100				
	Iscpv [A]	30				
	MPP Voltage Range [Vdc]	150 - 950		200-950		
	Full Power MPP Voltage Range [Vdc]	250-850	290-850	350-850	380-850	450-850
	Max. Input Current [A]	20				
	Start PV Voltage [Vdc]	180				
	Back feed Current [A]	0				
	Overvoltage Category (OVC)	II				
Battery input	Battery voltage range[Vdc]	120 - 600				
	Max. charging / discharging power[kW]	5	6	8	10	12
	Battery voltage range@nominal power[Vdc]	200-600	210-600	270-600	340-600	400-600
	Max. charging current / Max. discharging current [A]	30				
	Battery type	LiFePO4				
AC output	Rated Output Voltage [Vac]	220 / 380 V,230 / 400 V,240 / 415 ,3L/N/PE				
	Rated Output Frequency [Hz]	50 / 60				
	Rated Output Power [kW]	5	6	8	10	12
	Max.Apparent Power [kVA]	5.5	6.6	8.8	11.0	13.2
	Rated Output Current [A](@400V)	7.3	8.7	11.6	14.5	17.4
	Max.Output Current [A](@400V)	8.0	9.6	12.8	16.0	19.2
	Power Factor（cosφ）	1.0 (default)，0.80 lead，0.80 lag				
	Overvoltage Category (OVC)	III				
AC input	Rated Input Voltage [Vac]	220 / 380 V,230 / 400 V,240 / 415 ,3L/N/PE				
	Rated Input Frequency [Hz]	50 / 60				
	Max. input power from grid [kW]	10	12	16	20	24
	Max. input current from grid[A]	14.5	17.4	23.2	29.0	34.8
EPS output	Nominal Output Voltage [Vac]	220 / 380 V,230 / 400 V,240 / 415 ,3L/N/PE				
	Nominal Output Frequency [Hz]	50 /60				
	Max. apparent power[kVA]	5	6	8	10	12
	Rated Current[A] (@400V)	7.3	8.7	11.6	14.5	17.4
SYSTEM	Protective Class	I				
	Enclosure Protection [IP]	IP66				
	Operating Temperature Range [°C]	-25 °C … +60 °C				
	Pollution degree (PD)	PD 3				
	Max. operating altitude [m]	3000				
	Acoustic Noise [dB]	< 60				
	Weight [Kg]	24.5				
	Size (W / H / D) [mm]	545 / 465 / 205				
	Firmware Version	Master DSP：610-05001-00 Slave DSP：610-60015-00 Safety：610-11022-00				

1) For European market and Australian market, the max. apparent AC output power is equal to the rated power.

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Model		HESS-HY-T1 -05K	HESS-HY-T1 -06K	HESS-HY-T1 -08K	HESS-HY-T1 -10K	HESS-HY-T1 -12K
PV input	VMaxpv [Vdc]	1100				
	Iscpv [A]	24				
	MPP Voltage Range [Vdc]	150 - 950		200-950		
	Full Power MPP Voltage Range [Vdc]	180~850V	200~850V	250~850V	320~850V	380~850V
	Max. Input Current [A]	16				
	Start PV Voltage [Vdc]	180				
	Back feed Current [A]	0				
	Overvoltage Category (OVC)	II				
Battery input	Battery voltage range[Vdc]	120 - 600				
	Max. charging / discharging power[kW]	5	6	8	10	12
	Battery voltage range@nominal power[Vdc]	200-600	210-600	270-600	340-600	400-600
	Max. charging current / Max. discharging current [A]	30				
	Battery type	LiFePO4				
AC output	Rated Output Voltage [Vac]	220 / 380 V,230 / 400 V,240 / 415 ,3L/N/PE				
	Rated Output Frequency [Hz]	50 / 60				
	Rated Output Power [kW]	5	6	8	10	12
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	Max.Output Current [A](@400V)	8.0	9.6	12.8	16.0	19.2
	Power Factor (cosφ)	1.0 (default)，0.80 lead，0.80 lag				
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	Nominal Output Frequency [Hz]	50 /60				
	Max. apparent power[kVA]	5	6	8	10	12
	Rated Current[A] (@400V)	11.6	14.5	11.6	14.5	17.4
SYSTEM	Protective Class	I				
	Enclosure Protection [IP]	IP66				
	Operating Temperature Range [°C]	-25 °C … +60 °C				
	Pollution degree (PD)	PD 3				
	Max. operating altitude [m]	3000				
	Acoustic Noise [dB]	< 60				
	Weight [Kg]	26				
	Size (W / H / D) [mm]	545 / 465 / 205				
	Firmware Version	Master DSP：610-05001-00 Slave DSP：610-60015-00 Safety：610-11022-00				

1) For European market and Australian market, the max. apparent AC output power is equal to the rated power.

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