

# Compliance Document

No. D 117061 0012 Rev. 00

**Holder of Certificate:** **Shanghai Hoenergy Power Technology Co.,Ltd**

Building 1, 1888 Wangyuan Road  
Fengxian District  
201400 Shanghai  
PEOPLE'S REPUBLIC OF CHINA

**Product:** **Converter  
(Hybrid Inverter with storage battery system)**

**Model(s):** **Inverter models: iINV-HB3-6.0KH, iINV-HB3-8.0KH,  
iINV-HB3-10.0KH, iINV-HB3-12.0KH  
Battery model: iBAT-R-2.56H6**


**Parameters:** See page 2

**Tested according to:** CEI 0-21:2022  
CEI 0-21:2022/V1:2022

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290223099801

**Date,** 2023-08-25



( Billy Qiu )

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## Parameters:

Inverter model	iINV-HB3-6.0KH	iINV-HB3-8.0KH	iINV-HB3-10.0KH	iINV-HB3-12.0KH
<b>PV terminal parameters</b>				
Vmax. PV	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
MPPT Voltage Range	180 Vd.c.~ 850 Vd.c.	180 Vd.c.~ 850 Vd.c.	180 Vd.c.~ 850 Vd.c.	180 Vd.c.~ 850 Vd.c.
MPPT Voltage Range (full load)	250 Vd.c.~ 850 Vd.c.	330 Vd.c.~ 850 Vd.c.	430 Vd.c.~ 850 Vd.c.	510 Vd.c.~ 850 Vd.c.
Max. continuous PV input current	13.0 Ad.c./ 13.0 Ad.c.	13.0 Ad.c./ 13.0 Ad.c.	13.0 Ad.c./ 13.0 Ad.c.	13.0 Ad.c./ 13.0 Ad.c.
Isc PV	16.0 Ad.c./ 16.0 Ad.c.	16.0 Ad.c./ 16.0 Ad.c.	16.0 Ad.c./ 16.0 Ad.c.	16.0 Ad.c./ 16.0 Ad.c.
Max. continuous PV input power	9000 W	12000 W	15000 W	18000 W
<b>Battery terminal parameter</b>				
Battery type	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Voltage range	125 Vd.c.~ 600 Vd.c.	125 Vd.c.~ 600 Vd.c.	125 Vd.c.~ 600 Vd.c.	125 Vd.c.~ 600 Vd.c.
Rated voltage	200 Vd.c.	250 Vd.c.	300 Vd.c.	350 Vd.c.
Maximum charge/discharge current	50.0 Ad.c./ 50.0 Ad.c.	50.0 Ad.c./ 50.0 Ad.c.	50.0 Ad.c./ 50.0 Ad.c.	50.0 Ad.c./ 50.0 Ad.c.
Maximum charge current from grid to battery	50.0 Ad.c.	50.0 Ad.c.	50.0 Ad.c.	50.0 Ad.c.
Maximum charge/discharge power	6600 W / 6600 W	8800 W / 8800 W	11000 W / 11000 W	13200 W / 13200 W
Maximum charge power from grid to battery	6600 W	8800 W	11000 W	13200 W
<b>Grid terminal parameter</b>				
Rated voltage	230/400 Va.c., 3W+N+PE			
Rated frequency	50 Hz			
Rated current output to Grid	8.7 Aa.c.	11.5 Aa.c.	14.4 Aa.c.	17.3 Aa.c.
Maximum continuous current output to Grid	9.5 Aa.c.	12.7 Aa.c.	15.9 Aa.c.	19.1 Aa.c.
Rated active power output to Grid	6000 W	8000 W	10000 W	12000 W
Maximum apparent power output to Grid	6600 VA	8800 VA	11000 VA	13200 VA
Maximum continuous current from Grid	9.5 Aa.c.	12.7 Aa.c.	15.9 Aa.c.	19.1 Aa.c.
Maximum apparent power from Grid	6600 VA	8800 VA	11000 VA	13200 VA
Power factor (Cos phi), adjustable	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)			
<b>General</b>				
Operation temperature range	-25 °C to 60 °C			
Storage temperature range	-25 °C to 70 °C			

Battery model parameters see below page: 4

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<b>The following generators meet the requirements of CEI 0-21:2022+CEI 0-21:2022/V1:2022</b>					
Section A	Manufacturer	Shanghai Hoenergy Power Technology Co.,Ltd Building 1, 1888 Wangyuan Road Fengxian District 201400 Shanghai PEOPLE'S REPUBLIC OF CHINA			
	Equipment type	Hybrid Inverter with storage battery system			
	Brand	Hoenergy			
	Number of phase	<input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three phase Frequency: 50Hz      Voltage: a.c. 230V/400V			
	Primary energy used	<input checked="" type="checkbox"/> Solar <input checked="" type="checkbox"/> Storage <input type="checkbox"/> Wind <input type="checkbox"/> Hydroelectric <input type="checkbox"/> CHP <input type="checkbox"/> Other:			
	Generator model	iINV-HB3-6.0KH	iINV-HB3-8.0KH	iINV-HB3-10.0KH	iINV-HB3-12.0KH
	Rated active power output to Grid	6000 W	8000 W	10000 W	12000 W
	Maximum apparent power output to Grid	6600 VA	8800 VA	11000 VA	13200 VA
	The generator:	<input checked="" type="checkbox"/> is suitable for installation in systems with an output power of more than 11.08 kW <input checked="" type="checkbox"/> is capable of limiting I <sub>dc</sub> to 0.5% of rated current: <input checked="" type="checkbox"/> uses a DC-sensitive protection function <input type="checkbox"/> uses a transformer operating at mains frequency			
Section B	Characteristics of the interface protection system				
	Manufacturer	Shanghai Hoenergy Power Technology Co.,Ltd			
	Model	iINV-HB3-6.0KH, iINV-HB3-8.0KH, iINV-HB3-10.0KH, iINV-HB3-12.0KH			
	Type	<input checked="" type="checkbox"/> Integrated <input type="checkbox"/> Not integrated Remark: The application of Model iINV-HB3-12.0KH in system may exceed 11.08kW on grid connection point, external interface protection system is required according to final installation requirement.			
Section C	Characteristics of inverter(s)				
	Model of inverter	iINV-HB3-6.0KH	iINV-HB3-8.0KH	iINV-HB3-10.0KH	iINV-HB3-12.0KH
	Manufacturer of inverter	Shanghai Hoenergy Power Technology Co.,Ltd			
	Firmware version	ARM:V1.02.12; DSP:V1.03.04			
	Rated power of inverter (PNINV)	6000 W	8000 W	10000 W	12000 W

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Section E	Characteristics of the Storage System (SdA)				
	Inverter forming storage system				
	Inverter manufacturer	Shanghai Hoenergy Power Technology Co.,Ltd			
	Inverter model	iINV-HB3-6.0KH	iINV-HB3-8.0KH	iINV-HB3-10.0KH	iINV-HB3-12.0KH
	Battery forming storage system				
	Battery manufacturer	Shanghai Hoenergy Power Technology Co.,Ltd.			
	Battery model	iBAT-R-2.56H6			
	Capacity of battery[kWh]	15.36 (with 6*battery modules)			
	Remark: The Storage System parameters are referred to the report No.: 64.290.22.30998.01				
	Type	<input checked="" type="checkbox"/> Bidirectional <input type="checkbox"/> Monodirectional			
	Batteries that can be used with the above static converters				
	Brand	HOENERGY			
	Technology	Li-Ion			
	Models	iBAT-R-2.56H6			
	CUS module (kWh)	15.36 (with 6*battery modules)			
	BMS firmware version	V1.1			
	Number of modules	6 pieces			
Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with manufacturer's instruction.				
Section I	References of the laboratories that performed the tests and their test reports (RdP)				
	Selected method	<input checked="" type="checkbox"/> Tests performed by an accredited laboratory			
	Test Reports (RdP)	Test report according to Annex A, Bbis: 64.290.22.30998.01			
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch			
	Accreditation No.	D-PL-19065-01-01			
	Accreditation body ref.	DAkKS			
Section M	Reference of the certification body				
	Certification Body	TÜV SÜD Product Service GmbH DAkKS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013			