

Compliance Document

No. D 117109 0013 Rev. 00

Holder of Certificate: **Foshan Haiwengneng New Energy Technology Co., Ltd.**

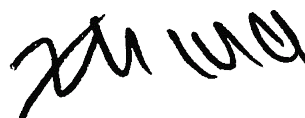
Hetai south road, Hegui industrial park, Lishui Town, Nahhai District, Foshan city, Guangdong, China
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter
Battery Energy Storage System**

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

Test report no.: 704092234422-00

Date, 2022-09-28



(Zhengdong Ma)

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Model(s):

WH-SPHA3.6H-5.12kWh, WH-SPHA3.6H-10.24kWh,
WH-SPHA4.6H-5.12kWh, WH-SPHA4.6H-10.24kWh,
WH-SPHA5.0H-5.12kWh, WH-SPHA5.0H-10.24kWh,
WH-SPHA6.0H-5.12kWh, WH-SPHA6.0H-10.24kWh

Parameters:

	The following generators meet the requirements of CEI 0-21:2022				
Section A	Manufacturer	Foshan Haiwengneng New Energy Technology Co., Ltd. Hetai south road, Hegui industrial park, Lishui Town, Nahhai District, Foshan city, Guangdong, China PEOPLE'S REPUBLIC OF CHINA			
	Equipment type	Battery Energy Storage System			
	Brand	HARVEYPOWER			
	Number of phase	☒ Single phase ☐ Three phase Frequency: 50Hz Voltage: a.c. 230V			
	Primary energy used	☒ Solar ☒ Storage ☐ Wind ☐ Hydroelectric ☐ CHP ☐ Other:			
	Generator model	WH-SPHA3.6H-5.12kWh / WH-SPHA3.6H-10.24kWh	WH-SPHA4.6H-5.12kWh / WH-SPHA4.6H-10.24kWh	WH-SPHA5.0H-5.12kWh / WH-SPHA5.0H-10.24kWh	WH-SPHA6.0H-5.12kWh / WH-SPHA6.0H-10.24kWh
	Rated power	3600 W / 3600 VA	4600 W / 4600 VA	5000 W / 5000 VA	6000 W / 6000 VA
	The generator:	☐ is suitable for installation in systems with an output power of more than 11.08 kW ☒ is capable of limiting Idc to 0.5% of rated current ☒ uses a DC-sensitive protection function ☐ uses a transformer operating at mains frequency			

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Section B	Characteristics of the interface protection system				
	Manufacturer	Foshan Haiwengneng New Energy Technology Co., Ltd.			
	Model	WH-SPHA3.6H-5.12kWh / WH-SPHA3.6H-10.24kWh	WH-SPHA4.6H-5.12kWh / WH-SPHA4.6H-10.24kWh	WH-SPHA5.0H-5.12kWh / WH-SPHA5.0H-10.24kWh	WH-SPHA6.0H-5.12kWh / WH-SPHA6.0H-10.24kWh
	Type	☒ Integrated ☐ Not integrated			
Section C	Characteristics of inverter(s)				
	Model of inverter	WH-SPHA3.6H-5.12kWh / WH-SPHA3.6H-10.24kWh	WH-SPHA4.6H-5.12kWh / WH-SPHA4.6H-10.24kWh	WH-SPHA5.0H-5.12kWh / WH-SPHA5.0H-10.24kWh	WH-SPHA6.0H-5.12kWh / WH-SPHA6.0H-10.24kWh
	Manufacturer of inverter	Foshan Haiwengneng New Energy Technology Co., Ltd.			
	Firmware version	V1.00			
	Rated power of inverter (P _{NINV})	3600 W	4600 W	5000 W	6000 W

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Section E	Characteristics of the Storage System (SdA)					
	Model	WH-SPHA3.6H -5.12kWh / WH-SPHA3.6H -10.24kWh	WH-SPHA4.6H -5.12kWh / WH-SPHA4.6H -10.24kWh	WH-SPHA5.0H -5.12kWh / WH-SPHA5.0H -10.24kWh	WH-SPHA6.0H -5.12kWh	WH-SPHA6.0H -10.24kWh
	Psn (nominal discharge power)	3600 W	4600 W	5000 W	5100 W	6000 W
	Pcn (nominal charging power)	3600 W	4600 W	5000 W	5700 W	6000 W
	Psmax (max. discharge power)	3600 W	4600 W	5000 W	5100 W	6000 W
	Pcmx (max. charging power)	3600 W	4600 W	5000 W	5700 W	6000 W
	Type	☒ Bidirectional ☐ Monodirectional				
	Batteries that can be used with the above inverters					
	Brand	HARVEYPOWER				
	Technology	Li-Ion				
	Models	WH-BXB5.12			WH-BXB10.24	
	CUS module (kWh)	5.12			5.12	
	BMS firmware version	V1.00				
	Number of modules	1			2	
	Note	Storage battery system WH-BXB10.24 consists of two modules of WH-BXB5.12.				

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Section I	References of the laboratories that performed the tests and their test reports (RdP)		
	Selected method	☒ Tests performed under the supervision of a certification body	☒ Tests performed by an accredited laboratory
	Test Reports (RdP)	1) Test report according to Annex A & Bbis: 70.409.22.344.22-00;	1) EMC test report: a) 4861922271200; b) WPHE221827
	Issued by	Testing lab: 1) Foshan Haiwengneng New Energy Technology Co., Ltd. Tests performed under supervision of certifier from TÜV SÜD Product Service GmbH	Testing lab: 1) -a) TÜV SÜD Certification and Testing (China) Co., Ltd. 1) -b) Suzhou Institute of Product Quality Supervision and Inspection
	Accreditation No.	D-ZE-11321-01-00	1) -a) CNAS L2282 1) -b) CNAS L0267
	Accreditation body reference.	DAKKS	CNAS
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	

**Tested
according to:**

CEI 0-21:2022