

Certificate of Conformity

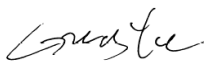
Certificate Number: CN-PV-230044

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:	Suzhou Bytewatt Technology Co., Ltd Room 1004-1, Tantaihu Building, No.9 East Taihu Road, Wuzhong District, Suzhou City, China
Product:	Hybrid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	BW-INV-SPH3.6K, BW-INV-SPH5K, BW-INV-SPB5K
Brand Name<s>:	NEOVOLT
Product Complies with:	EN 50549-1:2019 Type approval for type B
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>:	221215057GZU-002

According to Annex H of the standard EN 50549-1:2019, generating plants compliant with the clauses of this European Standard are considered to be compliant with the relevant Article of COMMISSION REGULATION (EU) 2016/631, provided that all settings as provided by the DSO and the responsible party are complied with.

Additional information in Appendix.



Signature

Certification Manager: Grady Ye
Date: 10 February 2023



PRD N° 306B

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230044

MODEL	BW-INV-SPH3.6K	BW-INV-SPH5K	BW-INV-SPB5K
Input DC (PV side)			
Recommended max. PV power	5400W	7500W	--
Max PV input voltage	580Vdc		--
MPPT Voltage range	100-550Vdc		--
Max. input current	15A/15A		--
PV Isc	18.75A/18.75A		--
Battery			
Battery type	Li-ion (LiFePO4)		
Battery Voltage Range	80-450		
Max.Charging / Discharging Power	3680W	5000W	5000W
Max. Charge/Discharge current	60A/60A		
Grid Output			
Max Active power	3600W	5000W	5000W
Max.apparent power	3600VA	5000VA	5000VA
Max.output current	15.7A	21.7A	21.7A
Output voltage	L/N/PE 230Vac		
Rated Frequency	50/60 Hz		
Power Factor	0.8 cap ~ 0.8 ind		
Backup output			
Rated Voltage	L/N/PE 230Vac		
Rated Frequency	50/60 Hz		
Max output power	3600W	5000W	5000W
Max.output current	15.7A	21.7A	21.7A
System			
Protection Degree	IP65		
Protection Class	I		
Overvoltage Category	DC: II; AC:III		
Topology	Transformerless		
Software Version	E1.0		

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Interface protection settings according to EN 50549-1:2019			
Parameter	Max. disconnection time	Min. operate time	Trip value
Undervoltage threshold stage 1 [27 <]	100s	0.1s (0.1 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Undervoltage threshold stage 2 [27 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Overvoltage threshold stage 1 [59 >]	100s	0.1s (0.1 s steps)	Trip value Config. from 1.0 to 1.2 Un (0.01 Un steps)
Overvoltage threshold stage 2 [59 >>]	5s	0.1s (0.05 s steps)	Trip value Config. from 1.0 to 1.3 Un (0.01 Un steps)
Overvoltage 10 min mean protection	Trip time Config ≤ 3s not adjustable Time delay setting = 0 ms		Trip value Config. from 1.0 to 1.15Un (0.01 Un steps)
Underfrequency threshold stage 1 [81 <]	100s	0.1s (0.1s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Underfrequency threshold stage 2 [81 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Overfrequency threshold stage 1 [81 >]	100s	0.1s (0.1s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Overfrequency threshold stage 2 [81 >>]	5s	0.1s (0.05 s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Starting to and reconnection settings for voltage	50%-120% adjustable, 85%Un ≤ U ≤ 1.10Un default		
Starting to generate electrical power	47Hz – 52Hz adjustable, 49.5Hz ≤ U ≤ 50.1Hz default		
Reconnection settings for frequency	47Hz – 52Hz adjustable, 49.5Hz ≤ U ≤ 50.2Hz default		
Observation time	10s-60s adjustable, 60s default		
Active power increase gradient	6%-3000%/min adjustable, 10%/min default		
Permanent DC injection	0.5% of rated inverter output		
Loss of mains according to EN 62116	Within 2s		

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