

Compliance Document

No. D 123414 0006 Rev. 00

Holder of Certificate: **Zhejiang Wolong Energy Storage System Co.,Ltd**
No.1801, Renmin W.R, Shangyu
312300 Shaoxing City, Zhejiang Province
PEOPLE'S REPUBLIC OF CHINA

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

Model(s): **Converter models:**
WL ELSS-4000, WL ELSS-4600, WL ELSS-5000,
WL ELSS-6000
Battery models:
WL BLS-5H-P, WL BLS-10H-P, WL BLS-15H-P,
WL BLS-20H-P, WL BLS-25H-P, WL BLS-30H-P
Storage System models:
ATB Power1R 4000S-5HP, ATB Power1R 4600S-5HP,
ATB Power1R 5000S-5HP, ATB Power1R 6000S-5HP,
ATB Power1R 4000S-10HP, ATB Power1R 4600S-10HP,
ATB Power1R 5000S-10HP, ATB Power1R 6000S-10HP,
ATB Power1R 4000S-15HP, ATB Power1R 4600S-15HP,
ATB Power1R 5000S-15HP, ATB Power1R 6000S-15HP,
ATB Power1R 4000S-20HP, ATB Power1R 4600S-20HP,
ATB Power1R 5000S-20HP, ATB Power1R 6000S-20HP,
ATB Power1R 4000S-25HP, ATB Power1R 4600S-25HP,
ATB Power1R 5000S-25HP, ATB Power1R 6000S-25HP,
ATB Power1R 4000S-30HP, ATB Power1R 4600S-30HP,
ATB Power1R 5000S-30HP, ATB Power1R 6000S-30HP.


Parameters: See page 2

Tested according to: CEI 0-21:2022

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

Test report no.: 64290233178001

Date, 2023-12-15



(Billy Qiu)

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Parameters:

Model	WL ELSS-4000	WL ELSS-4600	WL ELSS-5000	WL ELSS-6000
PV input rating				
Max. input power	9000 W	9000 W	9000 W	9000 W
Nominal input voltage	360 Vd.c.	360 Vd.c.	360 Vd.c.	360 Vd.c.
Max. input voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
MPPT voltage range	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.
MPPT voltage range (full load)	250-520 Vd.c.	250-520 Vd.c.	250-520 Vd.c.	250-520 Vd.c.
Max. input current	2*16 Ad.c.	2*16 Ad.c.	2*16 Ad.c.	2*16 Ad.c.
PV short circuit current	2*20 Ad.c.	2*20 Ad.c.	2*20 Ad.c.	2*20 Ad.c.
Grid input rating				
Nominal input voltage	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.
Nominal grid frequency	50 Hz	50 Hz	50 Hz	50 Hz
Nominal input power	4000 W	4600 W	5000 W	6000 W
Nominal input current	17.4 Aa.c.	20 Aa.c.	21.7 Aa.c.	26 Aa.c.
Max. input apparent power	8000 VA	9200 VA	10000 VA	11000 VA
Max. input current	34.8 Aa.c.	40 Aa.c.	43.5 Aa.c.	47.8 Aa.c.
Grid output rating				
Nominal output apparent power	4000 W	4600 W	4999 W	6000 W
Nominal output voltage	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.
Nominal output current	17.4 Aa.c.	20 Aa.c.	21.7 Aa.c.	26 Aa.c.
Max. output current	17.4 Aa.c.	20 Aa.c.	21.7 Aa.c.	26 Aa.c.
Nominal output frequency	50 Hz	50 Hz	50 Hz	50 Hz
Power factor	0.8 inductive to 0.8 capacitive	0.8 inductive to 0.8 capacitive	0.8 inductive to 0.8 capacitive	0.8 inductive to 0.8 capacitive

Battery model parameters see below pages:5

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The following generators meet the requirements of CEI 0-21:2022					
Section A	Manufacturer	Zhejiang Wolong Energy Storage System Co.,Ltd No.1801, Renmin W.R, Shangyu, 312300 Shaoxing City, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA			
	Equipment type	Energy Storage Inverter with storage battery system			
	Brand	ATB			
	Number of phase	<input checked="" type="checkbox"/> Single phase <input type="checkbox"/> Three phase Frequency: 50Hz Voltage: 230Va.c.			
	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	WL ELSS-4000	WL ELSS-4600	WL ELSS-5000	WL ELSS-6000
	Rated active power output to Grid	4000 W	4600 W	5000 W	6000 W
	Maximum apparent power output to Grid	4000 VA	4600 VA	5000 VA	6000 VA
	The generator:	<input 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 Idc 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	Zhejiang Wolong Energy Storage System Co.,Ltd			
	Model	WL ELSS-4000, WL ELSS-4600, WL ELSS-5000, WL ELSS-6000 ATB Power1R 4000S-5HP, ATB Power1R 4600S-5HP, ATB Power1R 5000S-5HP, ATB Power1R 6000S-5HP ATB Power1R 4000S-10HP, ATB Power1R 4600S-10HP, ATB Power1R 5000S-10HP, ATB Power1R 6000S-10HP ATB Power1R 4000S-15HP, ATB Power1R 4600S-15HP, ATB Power1R 5000S-15HP, ATB Power1R 6000S-15HP ATB Power1R 4000S-20HP, ATB Power1R 4600S-20HP, ATB Power1R 5000S-20HP, ATB Power1R 6000S-20HP ATB Power1R 4000S-25HP, ATB Power1R 4600S-25HP, ATB Power1R 5000S-25HP, ATB Power1R 6000S-25HP ATB Power1R 4000S-30HP, ATB Power1R 4600S-30HP, ATB Power1R 5000S-30HP, ATB Power1R 6000S-30HP			
	Type	<input checked="" type="checkbox"/> Integrated <input type="checkbox"/> Not integrated			
Section C	Characteristics of inverter(s)				
	Model of inverter	WL ELSS-4000	WL ELSS-4600	WL ELSS-5000	WL ELSS-6000
	Manufacturer of inverter	Zhejiang Wolong Energy Storage System Co.,Ltd			
	Firmware version	V1.0.1.13			
	Rated power of inverter (PNINV)	4000 W	4600 W	5000 W	6000 W

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Characteristics of the Storage System (SdA)							
Storage System manufacturer	Zhejiang Wolong Energy Storage System Co.,Ltd						
Storage System model	ATB Power1R 4000S-5HP	ATB Power1R 4000S-10HP	ATB Power1R 4000S-15HP	ATB Power1R 4000S-20HP	ATB Power1R 4000S-25HP	ATB Power1R 4000S-30HP	
Nominal discharge power P_{SN} [W]	2350	4000	4000	4000	4000	4000	
Nominal charge power P_{CN} [W]	2750	4000	4000	4000	4000	4000	
Maximum discharge power P_{SMAX} [W]	2350	4000	4000	4000	4000	4000	
Maximum charge power P_{CMAX} [W]	2750	4000	4000	4000	4000	4000	
Storage System model	ATB Power1R 4600S-5HP	ATB Power1R 4600S-10HP	ATB Power1R 4600S-15HP	ATB Power1R 4600S-20HP	ATB Power1R 4600S-25HP	ATB Power1R 4600S-30HP	
Nominal discharge power P_{SN} [W]	2350	4600	4600	4600	4600	4600	
Nominal charge power P_{CN} [W]	2750	4600	4600	4600	4600	4600	
Maximum discharge power P_{SMAX} [W]	2350	4600	4600	4600	4600	4600	
Maximum charge power P_{CMAX} [W]	2750	4600	4600	4600	4600	4600	
Storage System model	ATB Power1R 5000S-5HP	ATB Power1R 5000S-10HP	ATB Power1R 5000S-15HP	ATB Power1R 5000S-20HP	ATB Power1R 5000S-25HP	ATB Power1R 5000S-30HP	
Nominal discharge power P_{SN} [W]	2350	4999	4999	4999	4999	4999	
Nominal charge power P_{CN} [W]	2750	4999	4999	4999	4999	4999	
Maximum discharge power P_{SMAX} [W]	2350	4999	4999	4999	4999	4999	
Maximum charge power P_{CMAX} [W]	2750	4999	4999	4999	4999	4999	
Storage System model	ATB Power1R 6000S-5HP	ATB Power1R 6000S-10HP	ATB Power1R 6000S-15HP	ATB Power1R 6000S-20HP	ATB Power1R 6000S-25HP	ATB Power1R 6000S-30HP	

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Nominal discharge power P_{SN} [W]	2350	4600	4600	4600	4600	4600
Nominal charge power P_{CN} [W]	2750	5500	5500	5500	5500	5500
Maximum discharge power P_{SMAX} [W]	2350	4600	4600	4600	4600	4600
Maximum charge power P_{CMAX} [W]	2750	5500	5500	5500	5500	5500
Type	<input checked="" type="checkbox"/> Bidirectional <input type="checkbox"/> Monodirectional					
Batteries that can be used with the above static converters						
Brand	ATB					
Technology	Lithium-ion					
Models	WL BLS-5H-P	WL BLS-10H-P	WL BLS-15H-P	WL BLS-20H-P	WL BLS-25H-P	WL BLS-30H-P
CUS module (kWh)	4.60	9.21	13.81	18.43	23.04	27.65
BMS firmware version	V3.08					
Number of modules	1 piece	2 pieces	3 pieces	4 pieces	5 pieces	6 pieces
Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with the manufacturer's instruction.					



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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, Annex Bbis: 64.290.23.31780.01
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
	Accreditation No.	D-PL-19065-01-00
	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