TYPE TEST REPORT

Type test report no. 2600305.01-MHV 21-0009

Type test on a MVS6750-LV High-voltage/Low-voltage Prefabricated Substation

Manufacturer
Sungrow Power Supply Co., LTD.
No. 1699 Xiyou Road, New & High Tech Zone,
Hefei, Anhui, China

TYPE TEST REPORT

OBJECT	MVS6750-LV High-voltage/low-voltage prefabricated substation 30 / 0.8 / 0.8 kV, 6750 kVA, 50 Hz	
CLIENT	Sungrow Power Supply Co., Ltd. Hefei, Anhui Province, China	
MANUFACTURERS	High-voltage/low-voltage prefabricated substation	Sungrow Power Supply Co., Ltd. Hefei, Anhui Province, China
	High-voltage switchgear	Ormazabal Zhuhai Switchgear Limited. Zhuhai, Guangdong Province, China
	low-voltage switchgear	Sungrow Power Supply Co., Ltd. Hefei, Anhui Province, China
	Transformer	Ningbo AUX High technology Co., Ltd. Ningbo, Zhejiang Province, China
	Container	Singamas Container Industry Co., Ltd. Yixing, Jiangsu Province, China
INSPECTED BY	DEKRA Testing and Certification (Shanghai) Ltd. Shanghai, China	
TEST LOCATION	Sate Gird (Changzhou) Electric Power Equipment Quality Inspection and Testing Center No. 218, Donghai Road, Changzhou City, China.	
DATES OF TESTS	20 December 2020 to 15 January 2021	
TEST SPECIFICATION	The tests have been carried out in accordance with IEC 62271-202 (2014), clause 6.2, 6.5, 6.6, 6.7, 6.9, 6.10.2, 6.10.3, 6.10.6, 6.101.3 and annex BB.	
SUMMARY AND CONCLUSION	The prefabricated substation passed the tests.	

This report applies only to the object tested. The responsibility for conformity of any object having the same type references as that tested rests with the manufacturer.

This report consists of 88 pages in total.

DEKRA Certification B.V.

H.L Schendstok
Certification Manager
Medium & High Voltage Components

Arnhem, 24 February 2021

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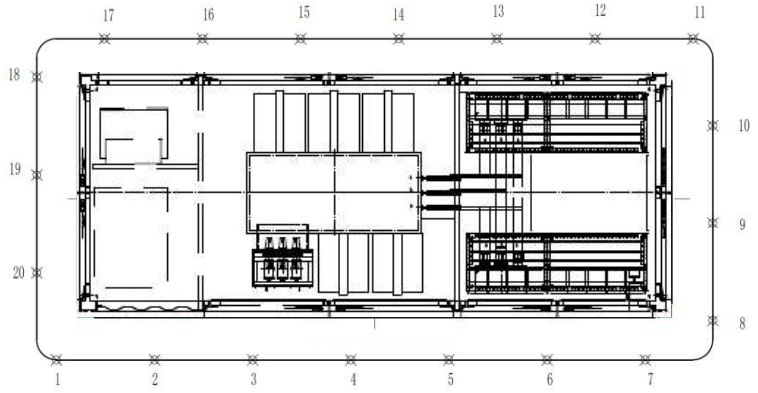
14 ACOUSTIC SOUND LEVEL

Prefabricated substation serial no. RD18039001
Cooling method: Transformer: ONAN. LV cabinets: Air-cooled. Fans forced.

Sound level		
		No load
Measured current	% In	/
Measured voltage	% Ur	100
Measured points		20
Measured height	m	1.5
Length of prescribed contour	m	17
Distance between prescribed contour and principal radiating surface	m	0.3
Distance of microphones	m	0.85
Measurement surface	m^2	54.33
Within the prefabricated substation		
Average A-weighted background noise pressure level before measurement L_{bgA1}	dB	35.5
Average A-weighted background noise pressure level after measurement L_{bgA2}	dB	35.3
Uncorrected average A-weighted sound pressure level L_{PA0}	dB	41.8
Corrected average A-weighted sound pressure level L_{PA}	dB	40.1
Guaranteed A-weighted sound pressure level L_{PA}	dB	/
A-weighted sound power level L_{WA}	dB	57.9
Guaranteed A-weighted sound power level L_{WA}	dB	/
Transformer only (opened the doors of transformer cabinet)		
Average A-weighted background noise pressure level before measurement L_{bgA1}	dB	38.5
Average A-weighted background noise pressure level after measurement L_{bgA2}	dB	38.5
Uncorrected average A-weighted sound pressure level L_{PA0}	dB	53.0
Corrected average A-weighted sound pressure level L_{PA}	dB	53.0
Guaranteed A-weighted sound pressure level L_{PA}	dB	/
A-weighted sound power level L_{WA}	dB	67.4
Guaranteed A-weighted sound power level L_{WA}	dB	/

Position of microphones during sound level determination



Thermocouple positions in substation