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Application Note-Noise Level of STS

Revision History

Version 1.0 Nov. 2021 – Initial release


Applicable products and models

Listed in the table below.

Description

Huawei smart transformer station STS shall be designed and manufactured according to IEC 62271-202, IEC 60076 and IEC 61439 standard. And the noise level of STS shall be fully complied and tested in accordance with IEC 60076-10 "Power transformer – Part 10 Determination of sound levels – Application guide".

Detailed noise level for each applicable STS is listed in the table below.

STS type	Noise level (Sound power level)	Equivalent environment
STS-3000K-H1 JUPITER-3000K-H1	64 dB(A) @1m	 Factory level/ Loud and noisy talk
STS-6000K-H1 JUPITER-6000K-H1	70 dB(A) @1m	
JUPITER-9000K-H0 JUPITER-9000K-H1	75 dB(A) @1m	

Test condition & test method

The STS sound level measurements are carried out at rated output voltage and rated frequency, and immediately after the background measurements, A-weighted sound pressure level measurements are carried out for each measuring position located around the transformer as detailed in the IEC 60076-1.