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Subject: Application Note-Noise Level of SUN2000 Inverter and Energy Storage System

Revision History

Version 1.0 June 2021 - Initial release

Applicable products and models

Listed in the table below.

Description

According to IEC62109 "Safety of power converters for use in photovoltaic power systems", noise level is part of safety requirement of inverters and nosie level conformity tests should be carried out. Huawei SUN2000 inverters strictly meet such requirements and have passed the test of noise level according to the standard and been awarded IEC62109 certificate. For energy storage system, similar requirement has also be described in IEC/EN62477 "Safety requirements for power electronic converter systems and equipment", and Huawei LUNA2000 energy storage system has passed the test of noise level according to this standard and been awarded IEC/EN62477 certificate. Detialed nosie level for each applicable inverter and energy storage system is listed in the table below.

Inverter type	Noise level	Equivalent environment
SUN2000L-2~5KTL	<=25 dB (Typical Condition)	
SUN2000-2~5KTL-L0	<=25 dB (Typical Condition)	
SUN2000-2~6KTL-L1	<=29 dB (Typical Condition)	
SUN2000-3~10KTL-M0/M1	<=29 dB (Typical Condition)	
SUN2000-12~20KTL-M0/M2	<=29 dB (Typical Condition)	
LUNA2000-5/10/15-S0	<=29 dB (Typical Condition)	Library level/ Whisper in the ear
SUN2000-30, 36, 40KTL-M3	<=50 dB (Typical Condition)	
SUN2000-33KTL-A, 36KTL	<=55 dB (Typical Condition)	
SUN2000-50/60KTL-M0	<=55 dB (Typical Condition)	
SUN2000-100/105KTL-H1	<=55 dB (Typical Condition)	THE PERSON NAMED IN COLUMN TO PERSON NAMED I
		Office level/ Normal discussion
SUN2000-100KTL-M1	<=65 dB (Typical Condition)	
SUN2000-185KTL-H1	<=65 dB (Typical Condition)	
SUN2000-200KTL-H2/H3	<=65 dB (Typical Condition)	
SUN2000-215KTL-H0/H3	<=65 dB (Typical Condition)	Factory level/ Loud and noisy talk

Note: Test condition: The tested equipment operates at rated power, and the test equipment is 1m right in front of the front-side of the tested equipment.