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In this context, "low voltage" covers voltages up to 1 500 V. With the growing usage of renewable energy sources the use of DC is increasing in parallel. The power that is needed in short distances to the generator can be stored and utilized directly without AC transformation.

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Since the dc bus voltage is a function of the peak voltage, the overshoot causes the dc bus voltage to exceed the over voltage setting, which results in the drive tripping off line. The solution in this application was to install a properly sized line reactor in the plant's electrical supply to the drive.

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In electrical power distribution, the US National Electrical Code (NEC), NFPA 70, article 725 (2005), defines low distribution system voltage (LDSV) as 0 to 49 V.. The NFPA standard 79 article 6.4.1.1 defines distribution protected extra-low voltage (PELV) as nominal voltage of 30 V rms or 60 V dc ripple-free for dry locations, and 6 Vrms or 15 V dc in all other cases.

Low voltage - Wikipedia

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Electrotechnical standardization – DKE

We lack standards for DC distribution voltage levels. Generally, the grid has to operate at a relatively high voltage of, say, 380V, so current levels remain relatively low and minimal losses happen over the wiring infrastructure. Meanwhile, that grid voltage has to be dropped into the 24–60V range for LED lighting and to 12V for electronics.

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DC sweep results show that regulator successfully limits output voltage to less than 7 Volts even as input voltage goes to 20 Volts Regulator does not begin "pulling down" output voltage until input exceeds ~5 volts

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