

SANS 10142-1:2017  
Edition 2

7.11.6 Exit signs shall be illuminated by the safety and emergency lighting systems.

7.11.7 An exit sign or an emergency luminaire that contains its own battery shall have continuous supply to the battery charging equipment.

7.12 Alternative supplies

NOTE Alternative supplies include but are not limited to low-voltage generating sets, photovoltaic (PV) installations, gas generators, diesel generators, wind turbines and hydropower plant.

7.12.1 General

7.12.1.1 Subclause 7.12 applies to an installation that incorporates alternative supplies intended to supply, either continuously or occasionally, all or part of the installation with the following supply arrangements:

a) supply to an installation or part of an installation which is not connected to the main supply of a supplier;

b) supply to an installation or part of an installation as an alternative to the main supply of a supplier; and

c) appropriate combinations of the above.

NOTE 1 Requirements of the supplier should be ascertained before any alternate supply is installed in an installation connected to the main supply of a supplier.

NOTE 2 This part of SANS 10142 does not cover the generation plant, integration and synchronising requirements of an alternative supply operating in parallel with the main supply to an installation.

7.12.1.2 Subclause 7.12 covers, but is not limited to, the following:

a) alternate supply that consist of a combination of an internal combustion engine or a turbine, hydro plant, wind energy recovery installation or any similar source of mechanical energy and an alternator or a d.c. generator;

b) rotary UPS (uninterruptible power supply) systems that consist of a combination of an electric motor and an alternator, with batteries as a standby power source for the electric motor, or with an internal combustion engine, gas or turbine as a standby power source for the alternator; and

c) static UPS systems that consist of static inverters with batteries as the standby power source (with or without bypass facilities).