

NFPA 110 & NFPA 20 Compliance for Industrial Power & Pump Systems Battery Chargers



NFPA 110 & NFPA 20 – Compliance Guidelines

What is NFPA 110?

NFPA 110 is the National Fire Protection Association's (NFPA) standard for emergency and standby power systems that provide an alternative power source in the event the main power source is unavailable.

What is NFPA 20?

NFPA 20 is the National Fire Protection Association's (NFPA) standard for the selection and installation of pumps to ensure that systems will work as intended to deliver adequate and reliable water supplies in a fire emergency.

About NFPA 110 & NFPA 20

NFPA 110 dictates all performance requirements for emergency and standby power systems and NFPA 20 dictates all performance requirements for pump installations that supply water in fire emergencies. Systems must be installed, maintained, tested and operated following the NFPA standards to be fully compliant.

DSE is committed to developing a range of battery chargers with features and benefits that ensure systems achieve full compliance to NFPA 110 & NFPA 20.

DSE Certified NFPA 110 and NFPA 20 Battery Chargers:

NFPA 110
NFPA 20
(QWIR)



DSE9461
12/24 Volt 10 Amp
Enclosed Intelligent Battery Charger

NFPA 20
(QWIR2)



DSE9470 MKII
24 Volt 10 Amp
Intelligent Battery Charger

NFPA identifies two requirement levels that relate to the installation, performance and maintenance of a power or pump system.

Level 1 = Systems where failure to perform could lead to a loss of life or serious injury.

Level 2 = Systems where failure to perform is less critical to human life or safety.

The required power / pump system level determines the requirements of the installed battery charger.

Requirements for Battery Chargers

NFPA dictates the requirements for charging batteries within a certain time period. The battery charger must monitor the output voltage and current. Depending on the categorised system level the battery charger may be required to indicate low or high battery voltage, fault conditions and any other conditions that are laid out in the standard.

The **DSE9461** and **DSE9470 MKII** offer these capabilities for level 1 and level 2 systems.