



LLSE CONTAINERS

# Add power supply next to the mobile power box





## Overview

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How do auxiliary power supplies work?

These operate over a universal input range from 90V to 264VAC and keep system electronics powered under all conditions to detect faults such as undervoltage, overvoltage and overcurrent. Typically, auxiliary power supplies generate three or more outputs, delivering power of 10 - 60 watts.

What is a mobile substation?

Mobile substations are a type of power distribution system that can be transported and installed quickly and easily in different locations. They are used to provide temporary or emergency power supply to areas where the grid is unavailable or has been damaged, such as construction sites, disaster zones, remote areas, or events.

Do auxiliary power supplies need multiple outputs?

In appliance applications, an auxiliary power supply will need multiple outputs for different loads - +3.3V or +5V for the controller and sensor elements, +12V for the relay and the metal-oxide semiconductor field-effect transistor (MOSFET) driver, and +15V for the insulated gate bipolar transistor (IGBT) module.

What are the components of a power supply?

The main components are a transformer, a cooling system, a high voltage switchgear, a low voltage switchgear, a metering system, a protection relaying system, an AC and DC auxiliary power supply, a surge protection system, and a cable connecting system.



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The positive supply from the changeover switch is routed to the output via an illuminated isolation switch, again to provide indication that power is on. Using lit switches makes it easy for me to ...

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