

Murrelektronik How to reduce power losses for applications outside the control cabinet

Emparro67 power supply units are specially designed for applications outside the control cabinet. They withstand extreme environmental conditions and can be installed directly in the field, next to the loads. This makes them the ideal solution for decentralised installation concepts, with power loss reduced to a minimum.



Losses occur if power supply units are used with an output voltage of 24 VDC and the power is supplied to the loads with cables that are too long. By using Emparro67, the voltage is converted from 230 VAC to 24 VDC directly at the load. By doing this, the power loss is much lower and the energy costs are reduced.

Installing the power supply units outside the cabinet by using Emparro67 also offers many more benefits beyond. For example, smaller cabinets can be used and in some applications it may even be possible to completely get rid of the cabinets.

Fully potted and IP67 sealed compact and rugged metal housing

To make power supply units suitable for extreme environmental conditions, their components have to be protected from mechanical stress. That is why Emparro67's compact and rugged metal housing is fully potted and IP67 sealed. Dirt, humidity, and cooling lubricants cannot damage the components. This makes Emparro67 a universal unit for many different applications.

The single phase Emparro power supplies for IP20 applications have proven how energy efficient they are in various applications. Their reliable active PFC technology is also used in Emparro67, leading to 92.4 per cent of the energy applied being used.

High temperature reliability and power boost function

Emparro67 converts almost no energy into heat. It is therefore always possible to touch the units, even when under full load and in high ambient temperatures. The units work reliably up to ambient temperatures of 85 degrees Celsius, which is exceptional for power supplies.

Another excellent feature of Emparro67 is its power boost function. The units supply up to 150 per cent of the nominal current for a period of up to four seconds. High capacitive loads can be started without causing voltage drops and an integrated primary fuse provides additional protection of the unit.

Emparro67 is available in two models with output current of 4 and 8 A. So you can select the model corresponding to the number of loads connected.

Features and benefits

Low power loss.

High efficiency of up to 94.2%.

Active PFC.

Ambient temperature up to 85 °C.

Extremely rugged, fully potted housing (IP67).

Always safe to touch, even when under full load.

Very flat, compact design.

For more information visit www.murrelektronik.uk.

