

Flexible, efficient, reliable – Emparro20-Pro

Murrelektronik will be presenting Emparro20-Pro – an IP20 rated switch mode power supply with an IO-Link option.

The Emparro20-Pro switch-mode power supply, developed in-house by Murrelektronik, can be equipped with an IO-Link adapter, sold separately to allow users remote access to perform tasks like setting the output voltage, locking the controls to prevent unauthorized adjustment of the output voltage, and running diagnostics.

With dimensions of 50 x 123 x 138 mm, Emparro20-Pro is more than 40% narrower and, overall, significantly smaller and more space-saving than its predecessor. The switch-mode power supply can either be DIN rail or screw mounted. The tool free DIN rail mounting option simplifies installation at the customer's site saving both time and effort.

Several devices can be operated via the parallel mode. Potentiometers are a thing of the past with Emparro20-Pro as voltage is now set using keys. The 22 - 28V DC output voltage can be adjusted using the + and - keys. The keys can be locked via IO-Link or a key combination on the device preventing unwanted output voltage adjustment.

Emparro20-Pro has a $\geq 95\%$ efficiency rating which offers a range of savings opportunities. Operating costs are kept to a minimum. Plus, the control cabinet stays cooler meaning that control cabinet air conditioning can be reduced in some cases. The service life is increased, and reliability is enhanced. Finally, thanks to overvoltage category III, Emparro20-Pro is insensitive to overvoltages.

Users can always keep an eye on the Emparro20-Pro's lifecycle via preventive diagnostics. This function indicates when the switch-mode power supply is approaching the end of its product life cycle by tracking various parameters including the power supply's internal temperature, switch-on processes and a permanent overload of more than 120%. When the statistically calculated service life is reached, this is signaled via a potential-free contact. The power supply will continue to function normally at this point, but the failure risk increases therefore maintenance should be made aware of the state. This way downtimes can be avoided and machine availability and productivity can be increased.

With the Power Boost function, Emparro20-Pro supplies 150 % power (30 A for the 20 A power supply) for five seconds. If the power supply is utilized to more than 90%, this is signaled by the flashing "OK/ALARM" LED.

With the Standard and Advanced models, Murrelektronik will offer additional products in the Emparro20 family in the future allowing customers to select the right power supply for their application.

Murrelektronik is one of the few manufacturers to comply with the EN-61204-3 standard, thus offering customers a high-quality product. Emparro20-Pro is currently scheduled for release in the fourth quarter of 2022.



Caption: The Emparro20-Pro switched-mode power supply from Murrelektronik has an efficiency of more than 95% and can be equipped with an optional IO-Link adapter.
Image: Murrelektronik GmbH

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