

FAR-V20

High Power Uninterruptible Intrinsically Safe Power Supply

The FAR-V20 power supply has been designed for powering mining fieldbuses and critical data transmission and networking gear, where M1 category equipment is needed. This device is capable of supplying power during 6 hours@1000mA even in presence of hazardous atmospheres. The combination of smart charging circuits, high efficient internal regulators and high performance lithium batteries assures a reliable and durable operation along the time. When the UPSU is to be located in hazardous areas it shall be installed in an Exe (Increased safety protection mode) enclosure.

The maintenance and status monitoring the unit (including its batteries) can be easily performed using an Intrinsically Safe monitoring interface (directly supported by RELIA AV).



Features

- Intrinsically safe output with I and V values configurable according to application requirements.
- Isolated Intrinsically Safe RS485 / TTL port for remote monitoring/configuration.
- High reliability lithium battery with low self-discharge, wide temperature range and long life time.
- Compact and resistant design.

TECHNICAL SPECIFICATIONS

NOMINAL PARAMETERS

- Input supply voltage: 230V_{AC}.
- Output voltage: 12V_{DC}.
- Output current: 1 to 1.8A Amps. (Factory configurable).

MECHANICAL

- Increased Safety enclosure (stainless steel)
- Dimensions: 200x300x160mm (includes 1 power supply module).

DATA TRANSMISSION

- RELIA AV bus plug-in connectors (requires fieldbus interface)
- Isolated Intrinsically Safe TTL / RS485 Serial interface.

SAFETY PARAMETERS

- ATEX category: M2/M1 when powered from 230V mains, M1 when powered from internal battery.
- Protection modes: Ex_i, Ex_m, (+Exe when installed in hazardous areas)
- Input supply voltage: 250V_{AC}.

CE ATEX Ex I M1 & M2/M1