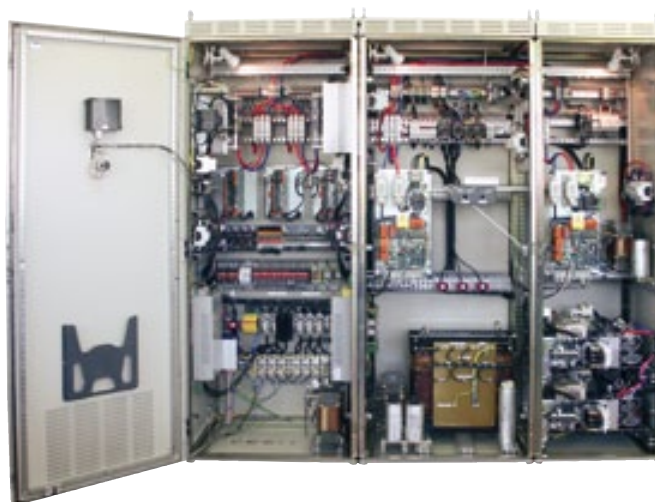


UNIVERSAL POWER SUPPLY SOURCE UNZ

- Failsafe and reliable system meeting SIL4 requirements pursuant to CENELEC standards
- Suited to important technological processes, airports, metro, in medicine and other places
- Higher than 96% effectiveness
- High operating reliability and resistance against storms
- Low purchase cost
- Universal modular design of standby Power Supply
- Maintenance-free system



General Description

UNZ universal power supply sources are a part of a system for reliable and failsafe power supply of the signalling systems or other systems requiring the uninterruptible power supply.



UZN device

System replaces 50 Hz individual sources with uninterruptible power supply, 24 V DC battery and also 75 Hz and 275 Hz frequency converters.

For power supply they can use the railway traction systems, e.g. DC 3 kV, single-phase AC 25 kV, 50 Hz or other systems.

As another source a public or private (e. g. 6 kV, 50 Hz) power supply network or a diesel generating set can be used.

Technology is embedded in cabinets.

Basic Technical Description

- Provides long term power supply for important parts of the signalling system with a high stand-by degree
- Provides short term power supply of other parts of the signalling system
- Provides power supply with UPS character (uninterruptible)

- Three-stage over-voltage protection

Input voltage:

- 1 × or 3 × 400 V/230 V AC
- 1 × 460 V DC

- Supplies signalling equipment with 230/400 V, 50 Hz

- Supplies station track circuits with 2 × 230 V, 75 Hz

- Supplies open-line track circuits with 2 × 230 V, 75 Hz

- Supplies signalling equipment with 24 V DC



Basic Technical Parameters

Input voltage	U_{ts} single-phase voltage	400 V, 50 Hz
	U_{te} voltage	460 V DC
	U_{v1} three-phase voltage	3 x 230/400 V, 50 Hz
	U_{v2} three-phase voltage	3 x 230 /400 V, 50 Hz
	U_k three-phase voltage	3 x 230 /400 V, 75 Hz
Output voltage	U50 two-phase voltage	2 x 230/400 V, 50 Hz
	U75 two-phase voltage	2 x 230 V, 75 Hz
	U275 two-phase voltage	2 x 230 V, 275 Hz
	U0 DC voltage	24 V
	Output Power	UNZ-1 and UNZ-2 converter
	UNZ-3 converter	10 kVA operating
Work environment		basic environment
Working temperature range		+5 to +55°C
Surrounding relative humidity		up to 80 %
Meets		EMC standards
Service life		> 25 years

