



PowerSWing MNZ-100

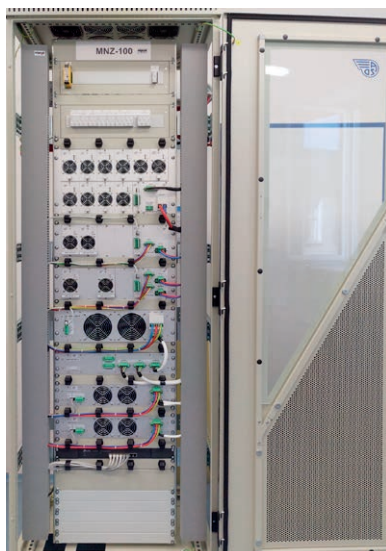
Power supply source

- Failsafe and reliable system meeting SIL4 requirements according to CENELEC
- Suitable for small size railway stations up to 10 turnouts
- High reliability and resistance against storms
- Modular design
- Maintenance-free system



GENERAL DESCRIPTION

Modular power supply source
PowerSWing MNZ-100



(further MNZ-100) is designed for reliable and failsafe power supply of signalling systems or other systems requiring backed up power supply.

MNZ-100 consists of recharging device, DC/DC and DC/AC converters and is used for power supply of small size railway stations.

MNZ-100 uses railway catenary as primary feeder (e.g. DC 3 kV, single-phase AC 25 kV, 50 Hz or others).

As another feeder a public or local (e. g. 6 kV, 50 Hz) power supply network or diesel generator can be used.

MNZ-100 technology is embedded in indoor cabinets.

BASIC TECHNICAL DESCRIPTION

MNZ-100 provides long term power supply for important parts of signalling system with a high backup level.





MNZ-100 provides short term power supply for other parts of the signalling system.

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

MNZ-100 supplies open-line track circuits with 2 × 230 V, 75 Hz.

MNZ-100 provides power supply with UPS character.

MNZ-100 supplies signalling systems with 230/400 V, 50 Hz.

MNZ-100 supplies signalling systems with 24 V DC.

Three-stage over-voltage protection.

MNZ-100 supplies station track circuits with 2 × 230 V, 275 Hz.

BASIC TECHNICAL PARAMETERS

Input voltage	3 × 400 V, 50 Hz 3 × 230/400 V, 50 Hz
Output power	12 kW
Work environment	basic environment
Temperature range	+5 °C to +55 °C
Humidity	up to 80 %
Service life	more than 25 years

