

**MULTIVOLTAGE STATIC FEEDER FOR RAILWAY
CARRIAGE TESTING**

The purpose of the apparatus is to provide, from the mains voltage 400V, the four voltages employed on the European carriage: 3000Vdc, 1500Vdc, 1500Vac and 1000Vac 16,6Hz. These voltages are stabilized and manually settable.

**MULTIVOLTAGE STATIC FEEDER FOR RAILWAY
CARRIAGE TESTING**

TECHNICAL DATA

1. INPUT

– Input voltage:	400V 3F
– Input voltage range:	± 15%
– Input frequency:	± 5%
– Rated power:	100kW

2. OUTPUT

OUTPUT VOLTAGE 1:	3000Vdc
– Range settable:	1620Vdc ÷ 4255Vdc
– Static stability:	± 1,5%
– Dynamic stability (with load variation ± 60%):	± 8%
– Ripple (RMS):	4%
– Overload for 10 minutes:	125%
– Short circuit current:	150%
OUTPUT VOLTAGE 2:	1500Vcc
– Range settable:	1620Vdc ÷ 4255Vdc
– Static stability:	± 1,5%
– Dynamic stability (with load variation ± 60%):	± 8%
– Ripple (RMS):	4%
– Overload for 10 minutes:	125%
– Short circuit current:	150%
OUTPUT VOLTAGE 3:	1500V single phase
– Range settable:	1140Vac ÷ 1760Vac
– Nominal frequency:	50Hz ± 0,5Hz
– Waveform:	sinusoidal
– THD:	5%
– Static stability:	± 1,5%
– Dynamic stability (with load variation ± 60%):	± 8%
– Overload for 10 minutes:	125%
– Short circuit current:	150%
OUTPUT VOLTAGE 4:	1000V single phase
– Range settable:	600Vac ÷ 1100Vac
– Nominal frequency:	16,6Hz ± 0,5Hz
– Waveform:	sinusoidal
– THD:	5%
– Static stability:	± 1,5%
– Dynamic stability (with load variation ± 60%):	± 8%
– Overload for 10 minutes:	125%
– Short circuit current:	150%

**MULTIVOLTAGE STATIC FEEDER FOR RAILWAY
CARRIAGE TESTING****3. MISCELLANEOUS**

– Range working temperature:	-5°C ÷ +45°C
– Max temperature daily average:	35°C
– Altitude without downgrading:	1000m
– Relative humidity at 45°C without condensing:	90%
– Dimensions:	2000x950x1850mm
– Weight:	1500kg
– Losses:	10kW

4. METERS

- DC voltmeter
- DC amperometer
- AC voltmeter (50Hz, 16,6Hz)
- AC amperometer (50Hz, 16,6Hz)
- Frequency meter

5. SIGNALLING

- Working converter
- Fault converter
- Overtemperature
- 3000Vdc switch on
- 1500Vdc switch on
- 1500Vac 50Hz switch on
- 1000Vac 16,6Hz switch on

6. REMOTE CONTROL (OPTIONAL)

- Working converter
- Fault converter
- Overtemperature
- 3000Vdc switch on
- 1500Vdc switch on
- 1500Vac 50Hz switch on
- 1000Vac 16,6Hz switch on

7. LOCAL CONTROLS

- Key selector 3000Vdc selection
- Key selector 1500Vdc selection
- Key selector 1500Vac 50Hz selection
- Key selector 1000Vac 16,6Hz selection
- Calibration 3000Vdc
- Calibration 1500Vdc
- Calibration 1500Vac 50Hz
- Calibration 1000Vac 16,6Hz

MULTIVOLTAGE STATIC FEEDER FOR RAILWAY CARRIAGE TESTING

8. SWITCHES

- Input automatic breaker with locked key.
- Output switch at two positions: output connected to converter/ output connected to the ground. Double locked keys with keys switched and locked for on position.