



**Elpro**

**TRACTION POWER  
SUPPLY SYSTEMS**

Switchgear  
750V DC



# RECTIFIERS

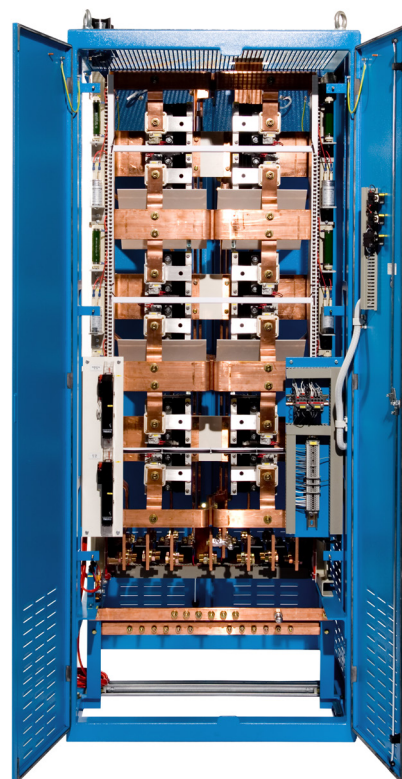
## Technical Specifications

Nominal voltage	750V DC
Rated insulation voltage	1000V DC
Rated short-circuit current	100 kA / 70kA
Rated short-circuit duration	200 ms
Protection type	IP20 / IP 21
Load class I to IV iaw.	DIN EN 50328
Type testing standard	DIN EN 60146

## Configuration features

## Dimensions (WxHxD)

Nominal current 1000A DC	6-pulse circuit	800 x 2200 x 1000 mm
Nominal current 1500A DC	6-pulse circuit	800 x 2200 x 1000 mm
Nominal current 1500A DC	12-pulse circuit	900 x 2200 x 1000 mm
Nominal current 2x 1800 A DC	12-pulse circuit	1000 x 2200 x 1000mm
Nominal current 2000A DC	6-pulse circuit	800 x 2200 x 1000 mm
Nominal current 2000A DC	12-pulse circuit	1000 x 2200 x 1000mm
Nominal current 2500A DC	6-pulse circuit	1000 x 2200 x 1000mm
Nominal current 2800A DC	12-pulse circuit	1000 x 2200 x 1000mm
Nominal current 3000A DC	6-pulse circuit	1000 x 2200 x 1000mm
Nominal current 3000A DC	12-pulse circuit	1000 x 2200 x 1000mm
Nominal current 4000A DC	12-pulse circuit	2500 x 2200 x 1000mm



# RETURN CONDUCTORS

## Technical Specifications

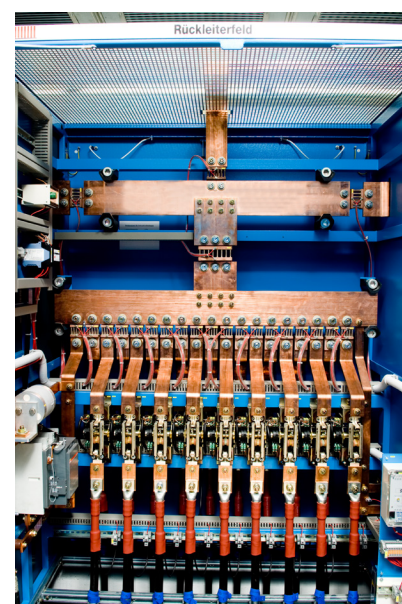
Nominal voltage	750V DC
Rated insulation voltage	1000V DC
Rated short-circuit current	200 kA / 120 kA
Rated short-circuit duration	250 ms
Protection type	IP20 / IP 21
Type testing standard	DIN EN 50123-6

## Configuration features

Depending on project-specific configuration, with varying number of return conductor branches and other components installed to customer requirements.

## Dimensions (WxHxD)

600 x 2200 x 1000 mm
800 x 2200 x 1000 mm
1000 x 2200 x 1000 mm
1200 x 2200 x 1000 mm
1400 x 2200 x 1000 mm
2500 x 2200 x 1000 mm



# FEEDER

## Technical Specifications

Nominal voltage	750V DC
Rated insulation voltage	1000V DC
Rated operating current primary busbar	7000A DC / 5500A / 3000A
Rated short-circuit current	200 kA / 120 kA
Rated short-circuit duration	250 ms
Protection type	IP4x / IP 21
Type testing standard	DIN EN 50123-6

## Configuration features

## Dimensions (WxHxD)

1 Feeder up to 4000A DC	600 x 2200 x 1*** mm
2 Feeders up to 4000A DC	800 x 2200 x 1*** mm
3 Feeders up to 4000A DC	1000 x 2200 x 1*** mm



# BYPASS

## Technical Specifications

Nominal voltage	750V DC
Rated insulation voltage	1000V DC
Rated operating current primary busbar	7000A DC / 5500A / 3000A
Rated short-circuit current	200 kA / 120 kA
Rated short-circuit duration	250 ms
Protection type	IP4x / IP 21
Type testing standard	DIN EN 50123-6



## Configuration features (at W = 600 mm: without bypass disconnect switch)

## Dimensions (WxHxD)

Nominal branch current	2500A DC	Elpro-SSM without bypass disconnect	600 x 2200 x 1000 mm
Nominal branch current	2500A DC	Elpro-SSM with bypass disconnect	800 x 2200 x 1000 mm
Nominal branch current	4000A DC	Elpro-SSM without bypass disconnect	600 x 2200 x 1000 mm
Nominal branch current	4000A DC	Elpro-SSM with bypass disconnect	800 x 2200 x 1000 mm
Nominal branch current	2500A DC	Mech. switch without bypass disconnect	600 x 2200 x 1200mm
Nominal branch current	2500A DC	Mech. switch with bypass disconnect	800 x 2200 x 1200mm
Nominal branch current	4000A DC	Mech. switch without bypass disconnect	600 x 2200 x 1300mm
Nominal branch current	4000A DC	Mech. switch with bypass disconnect	800 x 2200 x 1300mm

SSM – high-speed switch module (power-electronic switching principle)





**Elpro GmbH**

Marzahner Straße 34  
D-13053 Berlin

Tel.: +49 30 9861 0  
Fax: +49 30 9861 2276

E-Mail: [info@elpro.de](mailto:info@elpro.de)  
Internet: [www.elpro.de](http://www.elpro.de)

