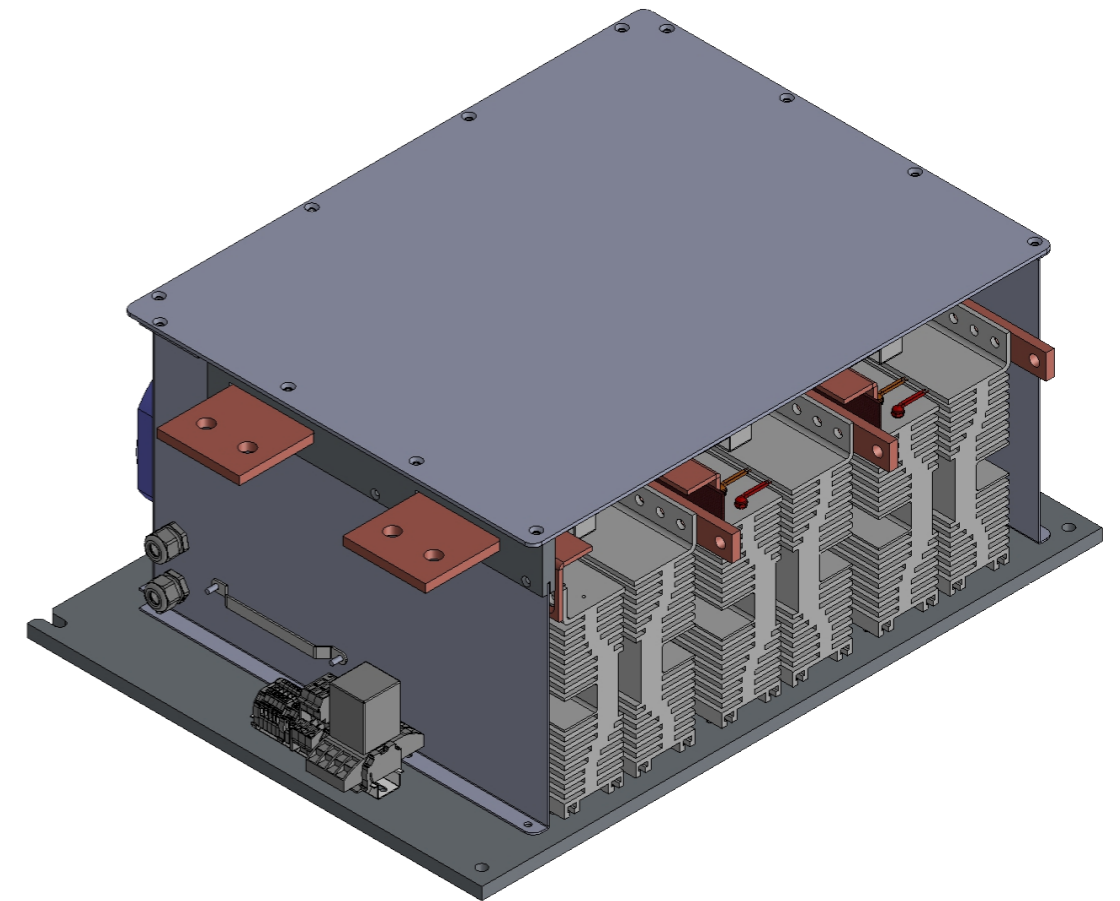


# ENI-PP2000/DBC/2 Main generator rectifier

## APPLICATION



The ENI-PP2000/DBC/2 rectifier is powered by the main generator and is designed to power the electric traction power circuits of shunting and similar locomotive drives. The part converting the AC to DC voltage is built in the configuration of a 6D three-phase bridge and made on high-current power diodes VD1 to VD6 built in high-efficiency heat sink modules. The rectifier diodes are protected by RC circuits (R11-C11 to R61-C61) against commutation overvoltages. The power track is cooled with a forced air stream supplied by three high-performance EV1 - EV3 fans powered by 24 VDC supplied from the vehicle's installation. Switching the fans on to the operating state is controlled by bimetallic temperature sensors mounted on diode heat sinks. Each fan is individually protected by a fuse. Bimetallic sensors provide protection against an emergency overheating of heat sinks. After one of the radiators reaches the emergency activation temperature of the sensors, i.e. 90°C, the contacts of the signal fed to the vehicle's circuits open and the three-phase rectifier supply voltage is disconnected.



**SPECIFICATION**

TYPE	ENI-PP2000/DBC/2
Supply voltage	3 x 690 V <sub>AC</sub> ± 10%
Supply voltage frequency	50 Hz ± 10%
Control supply voltage	24 V <sub>DC</sub> ± 30%
Power consumption by control circuits	< 60 W
Rated output current	2000 A <sub>DC</sub>
Built-in rectifier heatsink temperature sensors	
Dimensions without connection grommets (length x width x height)	750 x 580 x 325 mm
Cooling	Forced
Ambient temperature range	-30°C ÷ +40°C