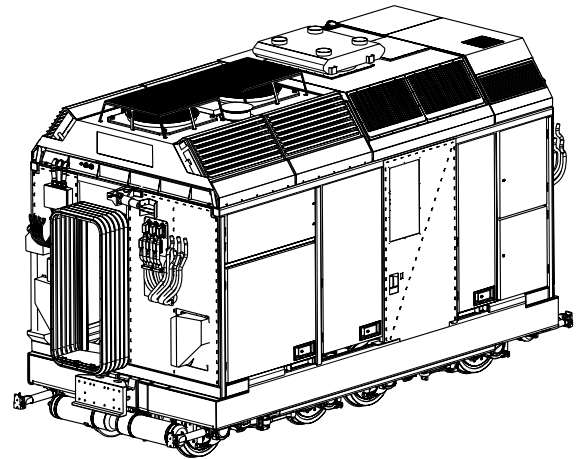
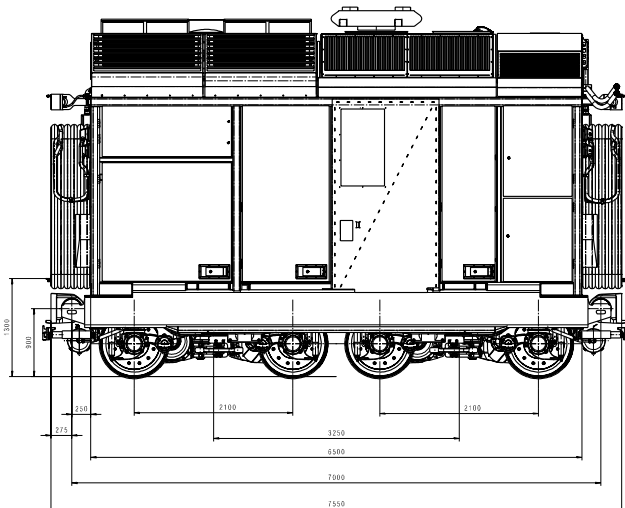


GTW+ power module **for Metrowagonmash, Russia**

In May 2011, Metrowagonmash, the manufacturer of metro and diesel vehicles, ordered 100 GTW+ power modules for the construction of 50 new generation diesel railcars. 2 power modules are used in each train. Initially, a prototype train will be built, which must then be approved before the 49 series production trains (98 power modules) can be produced. The gangway for passengers is asymmetrical and features a side window. In addition, the gangway is also air-conditioned and monitored. Despite the compact arrangement of the components, selected from tried and tested product families and adapted to the specific requirements of the Russian market, the power module is particularly maintenance-friendly, a typical feature of the GTW. The components can be accessed from all sides, through doors and hatches. The power modules have been designed for speeds of up to 160 km/h.

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Contractually agreed technical features

Cummins QSK38 Stage IIIA diesel engine	1119 kW
Maximum speed	160 km/h
Length (distance between couplings), max.	7300** mm
Width, max.	3480** mm
Height (above top of rail), max.	5300** mm
Dead weight when vehicle is in running order, max.	50* t
Permissible axle load, max.	20.5 t
Pressure force at coupling height	2000 kN
Tractive force at coupling height	1000 kN
Fuel tank	2000* l
Wheel diameter (new/worn)	870/800 mm
Outside operating temperature	-40°/+40°C
Storage temperature	-50°C
Max. humidity	85%
Operating time	16 hrs/day
Service life	40 years
GOST standards	
Loading gauge of the power module as per GOST 9238	T

Contractually agreed technical features – notes

- * to be specified during the planning stage in consultation with OAO Metrowagonmash
- ** to be agreed on with OAO Metrowagonmash during the project planning stage provided the loading gauge is complied with