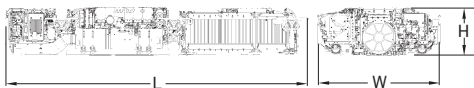
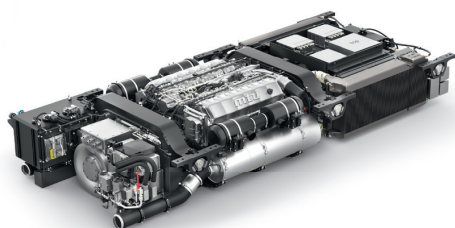




Rail

mtu POWERPACK SERIES 1600

for railcar applications
EU Stage IIIB / EU Stage V



Additional equipment and finishing shown. Standard may vary.

PowerPack	Dimensions (LxWxH) mm (in) *	Mass, wet kg (lbs) *
mtu PowerPack Series 1600	5.050 - 5.350 x 2.100 - 2.800 x 850 (198.8 - 210.6 x 82.7 - 110.2 x 33.5)	6.000 - 7.000 (13.227 - 15.432)

All dimensions are approximate and preliminar, for complete information refer to the installation drawing.
*The mentioned values are valid for PowerPacks with underfloor cooling system, for PowerPacks with roof cooling system please consult your **mtu** distributor/dealer.

Combustion engine types		Rated power			Emissions EU Stage
		kW	(bhp)	rpm	
12V 1600 R70 / R71		565	(757)	2100 / 1900	IIIB / V
12V 1600 R70L / R71L		625	(838)	2100 / 1900	IIIB / V
12V 1600 R80		660	(885)	1900	IIIB
12V 1600 R80L / R81L		700	(952)	1900	IIIB / V
12V 1600 R91		736	(987)	1900	V
Bore/stroke	mm (in)	122/150 (4.8/5.9)			
Cylinder configuration		12V			
Displacement	l (cu in)	1.75 (107)			
Displacement, total	l (cu in)	21 (1284)			
Fuel specification		DIN EN 590; other fuels are under investigation			
Emission qualification		EU Stage IIIB and Stage V*			

* Emission regulation (EU) 2016/1628
Ambient conditions for railcar: -25°C to 40°C
In case of deviations please consult your **mtu** distributor/dealer.

Standard equipment			
	Diesel-electric generator	Diesel-mechanic gearbox	Diesel-hydraulic gearbox
Power transmission	Permanent magnet synchronous generator / external excited synchronous generator / asynchronous generator. optional reverse-gear		
	Output voltage range at rated speed: 500 - 2800 V		
Cooling system	Underfloor cooling unit with electric or hydraulic fan drives		Roof cooling unit with electric or hydraulic fan drives
Exhaust gas aftertreatment system	EU Stage IIIB (SCR system)		EU Stage V (DOC, DPF and SCR system)
Combustion air filter system			
Fuel filter system			
PowerPack automation system			
Additional equipment integrated in PowerPack			
On-board power generation			
Kit for cold ambient conditions (<-25°C)			
Coolant preheating system	Fuel burner		Electric heater
Automatic engine oil replenishment system			
Hybridization			
On-board power supply			
Additional equipment for separate installation			
CaPoS smart edition	Capacitor-based power supply system for starter		
DC/DC-converter	110 VDC/24VDC		
Fluid level display			

Further variations on demand. Subject to change without notice. Customization possible. Engines illustrated in this document may feature options not fitted as standard. For further information consult your **mtu** distributor/dealer.