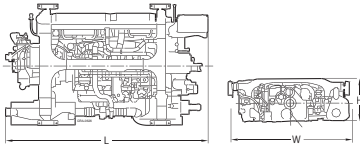
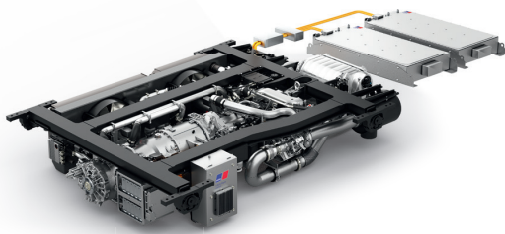




Rail

mtu HYBRID POWERPACK SERIES 1800

for railcar applications
EU Stage V



Optional equipment and finishing shown. Standard may vary.

PowerPack	Dimensions (LxWxH) mm (in) *	Mass, wet kg (lbs)
mtu PowerPack Series 1800	3200 - 4600 x 2180 - 2800 x 820 - 900 (126 - 181 x 85.8 - 110.2 x 32.3 - 35.4)	3800 - 5100 (8378 - 11244)

All dimensions are approximate and preliminary, for complete information refer to the installation drawing. Above shown dimensions and mass are excluding batteries.

Combustion engine types		
6H 1800 R76	kW (bhp)	315 (422)
6H 1800 R86	kW (bhp)	375 (503)
Speed	rpm	1800
Bore/stroke	mm (in)	128/166 (5.0/6.5)
Cylinder configuration		6/in Line
Displacement	l (cu in)	2.14 (130)
Displacement, total	l (cu in)	12.8 (782)
Fuel specification		DIN EN 590
Emission qualification		EU Stage V*

* Emission regulation (EU) 2016/1628

Standard equipment	
E-Drive	For recuperating, boosting and pure electric drive. 142 kW (S1).
Energy storage	Li-Ion batteries incl. battery management system and conditioning system. Underfloor or roof installation. 34,4 kWh per battery module.
Transmission	Mechanical gearbox with integrated reversing function. Mechanical gearbox without integrated reversing function.
Cooling system	Integrated in PowerPack, electrically driven.
Exhaust gas aftertreatment system	EU Stage V, aftertreatment combi system with DOC, DPF and SCR; reducing agent injection with suppling and dosing unit.
Optional equipment	
IDM (Intelligent Drive Manager)	Smart automation system to optimize the operation of the Hybrid PowerPack based on GPS and track data.
On-board power supply	3P-AC, 400V / 50 Hz; up to 70 kVA
Preheating system	
Automatic engine oil replenishment system	
SafeMon	Safety monitoring unit and documentation

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.