

# Diesel Engine 12V 1600

for C & I, Mining, Agriculture and Forestry Applications  
with EPA Tier 4 Certification



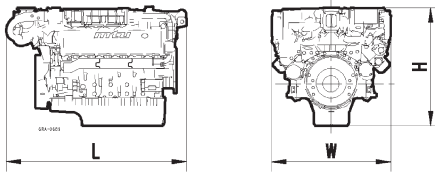
## Dimensions and Masses

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
<b>12V 1600 C</b>	1850x1200x1200 (72.8x47.2x47.2)	2200 (4850) <sup>1)</sup>

All dimensions are approximate, for complete information refer to the installation drawing.

<sup>1)</sup> DIN 70020

Engine Model		
Bore/stroke	mm (in)	122/150 (4.8/5.9)
Cylinder configuration		12 V
Displacement	l (cu in)	1.75 (107)
Displacement, total	l (cu in)	21.0 (1282)
Fuel specification		DIN EN 590, ASTM D975 (DF1, DF2)



Engine Type	Rated Power			Peak Torque			Fuel Consumption at rated power	Fuel Consumption at peak torque
Model	kW	bhp	rpm	Nm	lb-ft	rpm	g/kWh	g/kWh
12V 1600 C50	630	844	1900/2100	3600	2655	1600	203	195
12V 1600 C60	680	912	1900/2100	4000	2950	1300	203	195
12V 1600 C70	730	979	1900/2100	4200	3098	1600	203	195

Emissions: EPA 40 CFR 89 / Tier 4 final



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Standard Equipment
Common rail injection system
Electronic engine management
Two stage turbo charging with low temperature charge air cooling circuits
2nd coolant water pump for low temperature charge air cooling circuit
High pressure EGR system with high temperature cooling circuit
Engine mounted charge air and EGR coolers
24 Volt starter
28 Volt alternator, 80 A
SAE 1 flywheel housing
Mounting brackets
Close crankcase ventilation

Reference conditions:

> Intake temperature: 25°C (77°F)

> Charge air temperature at 50°C coolant temp.: 45°C

> Ambient air pressure: 1000 mbar

> Altitude above sea level: 100 m (328 ft)

Subject to change without notice. Customization possible. Engines illustrated in this document may feature options not fitted as standard to standard engine.

Optional Equipment
24 Volt alternator, 55 - 200 A
Exhaust brake system
Fuel prefilter
PTO drives for hydrostatic pumps (SAE A and SAE B)
AC compressor
Air pressure starter
Coupling for main PTO
Resilient engine mountings
Air compressor
Elevated fan drive
Cooling fan