

# C7.2 Defence Engine

205-276 kW (275-370 hp)

1166-1267 Nm (860-934 lb-ft)



Shown with optional equipment

## CAT® ENGINE SPECIFICATIONS

In-line 6-Cylinder, 4-Stroke-Cycle Diesel

Bore ..... 110 mm (4.33 in)

Stroke ..... 127 mm (5.0 in)

Displacement ..... 7.2 L (442 in<sup>3</sup>)

Aspiration ..... Turbocharged and After-cooled

Compression Ratio ..... 16.5:1

Combustion System ..... Direct Injection

Rotation (from flywheel end) ..... Anti-clockwise

Cooling System<sup>1</sup> ..... 13.2 L (3.5 gal US)

Lubrication Oil System (refill) ..... 21.0 L (5.5 gal US)

Engine Weight, Net Dry (approximate) with:

Standard equipment ..... 679 kg (1497 lbs)

Maximum engine tilt angle<sup>2</sup> of operation:

Longitudinal ..... 45° (100%)

Transverse ..... 45° (100%)

<sup>1</sup> Engine only. Capacity will vary with radiator size and coolant ancillaries

<sup>2</sup> Dependent upon type of oil sump

## STANDARD EQUIPMENT

- Air inlet manifold heater
- Cooling: belt-driven water pump and oil cooler
- Crankcase breather
- Electronic Control Module (ECM)
- Electronic Data Link, SAE/ATA, SAE/J1939
- Fuel: spin-on secondary filter, transfer pump
- Governor: full-range, electronically controlled
- HEUI™ Fuel System
- Lifting eyes
- Lubrication: gear-driven pump, front or rear sump pan, full flow spin-on filter, oil filter, dipstick (oil level gauge)
- SAE No. 1, No. 2 or No. 3 flywheel housing
- Turbocharger
- Vibration damper

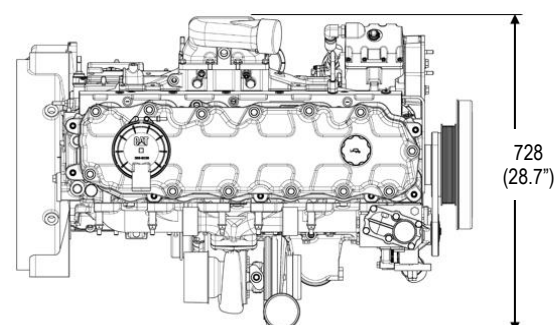
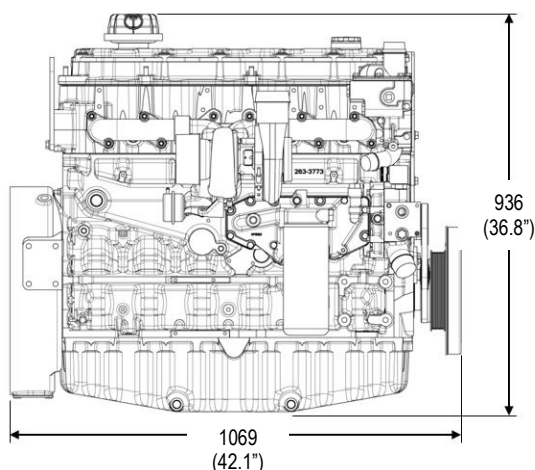
## ACCESSORY EQUIPMENT

- Air compressor - gear driven; 374-467 L/min (13.2-16.5 cfm) with drive-through (1:1) capability, SAE A
- Air conditioner compressor mounting
- Air inlet elbow
- Air, oil or water cooled electrical generator with belt or direct drive options
- Dual rear PTO SAE No. 1 flywheel housing
- Front engine support
- Front PTO adapter
- Fuel priming pump
- Jacket water heater
- Starter motor (24V)
- Transmission coupling
- Wide range of hydraulic pumps; fixed and variable displacement, with belt or direct drive options

## RATING DEFINITIONS AND CONDITIONS

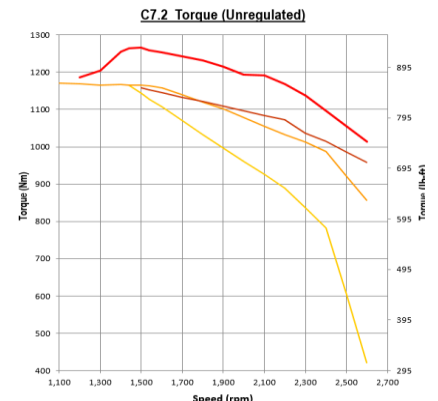
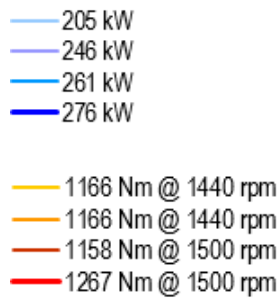
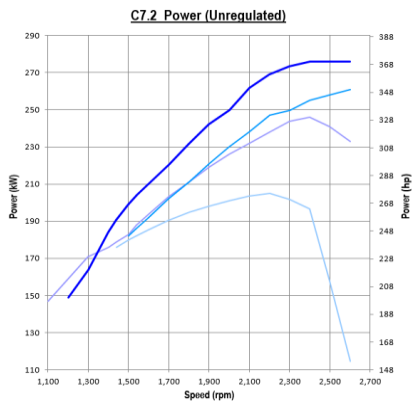
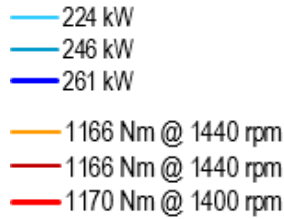
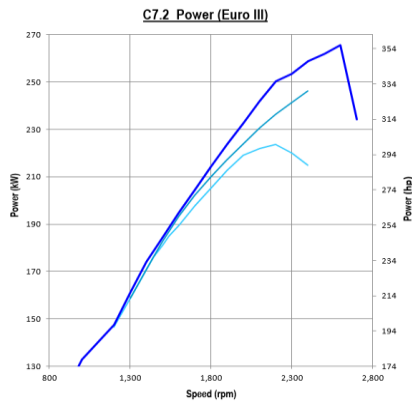
Performance is based upon SAE J1995 standard conditions of 100 kPa (29.61 in Hg) and 25°C (77°F)

## DIMENSIONS



## PERFORMANCE

Power @ Rated Speed (kW)	Power @ Rated Speed (hp)	Torque @ Rated Speed (Nm)	Torque @ Rated Speed (lb.ft)	Rated Speed (rpm)	Peak Torque (Nm)	Peak Torque (lb.ft)	Peak Torque Speed (rpm)	Emissions
205	275	890	656	2200	1166	860	1440	Unregulated
224	300	971	716	2200	1166	860	1440	Euro III
246	330	979	722	2400	1166	860	1440	Euro III
246	330	987	728	2400	1166	860	1440	Unregulated
261	350	962	709	2600	1170	863	1400	Euro III
261	350	959	707	2600	1158	854	1500	Unregulated
276	370	1014	748	2600	1267	934	1500	Unregulated



## ELECTRONIC FEATURES

SAE J1939 compatible  
 ECM storage of operational, maintenance, diagnostics codes and data  
 Electronic self-diagnostics  
 Customer selectable, re-programmable operational parameters:

- 2-speed fast idle capabilities
- Adjustable low idle rpm
- Cruise control
- Engine protection system; selectable warning, derate, or shutdown
- Fleet information software capability
- Idle shutdown timer and override

- Maintenance monitor [kilometres (miles) or hours]
- Vehicle speed [km/h (mph)] limiting and protection

Programmable Power Take-Off (PTO) functions:

- Adjustable minimum and maximum engine rpm speed
- Adjustable ramp rate up or down between PTO and speed(s)
- Adjustable rpm "bump" intervals
- Adjustable speed control [km/h (mph)] of that vehicle while in PTO mode
- Limit engine torque to driven equipment

Cold weather start-up strategy and electronic idle control functions  
 Compatible with Caterpillar Electronic Technician (ET)

## FEATURES

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