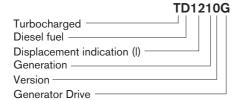
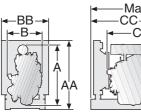
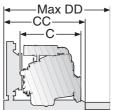
TD1210G

Gen Set Engine - Gen Pac





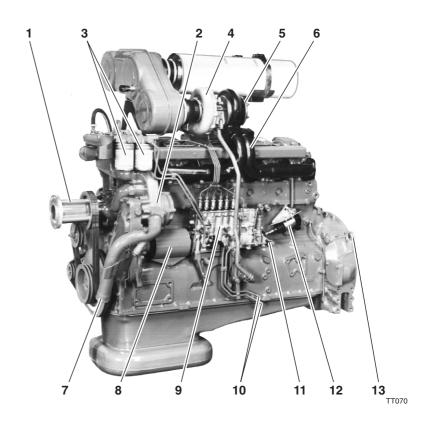


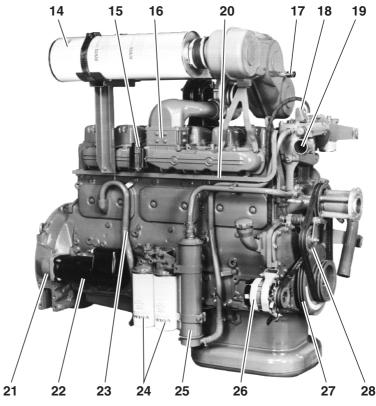
mm/in. A = 1526 / 60.1 B = 895 / 35.2 C = 1504 / 59.2 AA = 1614 / 63.5 BB = 1001 / 39.4 CC = 2059 / 81.1

DD = 3049 / 120

Gen Pac – Genset Engine mounted on an expandable base frame. Complete unit with engine, radiator, radiator core guard, fan, fan and belt guard providing reduced delivery time and installation cost and simplified transportation.

- 1. Fan hub
- 2. Gear-driven coolant pump
- 3. Twin fuel filters of disposable type
- 4. Turbocharger
- 5. Connecting flange, exhaust line
- 6. Air-cooled exhaust manifold
- 7. Coolant pipe, inlet
- 8. Pump coupling guard
- 9. Injection pump
- 10. Fuel pipes for tank connection
- 11. Manual speed control
- 12. Stop solenoid
- 13. Lift eyelet
- 14. Double air filters of disposable type
- 15. Relay for inlet manifold heater
- 16. Inlet manifold heater
- 17. Air restriction indicator
- 18. Radiator support bracket
- 19. Coolant pipe, outlet
- 20. Cable iron
- 21. Flywheel housing SAE 1
- 22. Starter motor
- 23. Crankcase ventilation
- 24. Twin full flow oil filter of spin-on type
- 25. Oil cooler
- 26. Alternator
- 27. Vibration damper
- 28. Automatic belt tensioner





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Volvo Penta reserves the right to make changes at any time, without notice, as to technical data, prices, materials, standard equipment, specifications and models, and to discontinue models.

Technical Data

General In-line four-stroke diesel engine with direct injection Turbocharged Rotation direction, anti-clockwise viewed towards flywheel		Number of cylinders Displacement, total Firing order Bore	6 11.98 liters / 731 in ³ 1-5-3-6-2-4 130.17 mm / 5.12 in
Dry weight, kg / lb Engine only 1110 / 2445 Gen Pac 1395 Wet weight, kg / lb Engine only 1165 / 2566 Gen Pac 1477		Stroke Compression ratio	150 mm / 5.91 in 14.2:1
TD1210G	Speed, rpm	1500	1800
Performance Prime Power with fan Continuous Standby Power with fan Maximum Standby Power with fan Mean piston speed Effective mean pressure at Prime Power Max combustion pressure at Prime Power Total mass moment of inertia, J (mR2)	Test no. kW / hp kW / hp kW / hp m/s / ft/sec MPa / psi MPa / psi kgm² / lbft²	21000676 217 / 295 239 / 325 261 / 355 7.5 / 24.6 1.49 / 216 11.8 / 1710	21000677 245 / 333 250 / 340 275 / 375 9.0 / 29.5 1.42 / 207 12.1 / 1750 / 65.0
Lubrication system Lubricating oil consumption at Prime Power Maximum Standby Power Oil system capacity including filters Oil change interval / specifications VDS-2 VDS, ACEA E3 ACEA E2, API CD, CF, CF-4, CG-4	liter/h / US ga liter/h / US ga liter / US gal h h	al/h 0.45 / 0.119 38 60 40	0.39/ 0.103 0.48/ 0.123 / 10 00 00
Fuel system Specific fuel consumption at 25% of Prime Power 50% of Prime Power 75% of Prime Power 100% of Prime Power Specific fuel consumption at 25% of Maximum Standby Power 50% of Maximum Standby Power 75% of Maximum Standby Power 100% of Maximum Standby Power	g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp	h 213 / 0.343 h 206 / 0.331 h 206 / 0.331 h 232 / 0.376 h 209 / 0.339 h 205 / 0.332	260 / 0.418 224 / 0.360 215 / 0.346 213 / 0.345 254 / 0.412 221 / 0.358 215 / 0.348 216 / 0.350
Intake and exhaust system Air consumption at Prime Power (at 27 °C) Maximum Standby Power (at 27 °C) Max allowable air intake restriction Heat rejection to exhaust at Prime Power Maximum Standby Power Exhaust gas temperature after turbine at Prime Power Maximum Standby Power Max allowable back-pressure in exhaust line Exhaust gas flow at Prime Power Maximum Standby Power Cooling system Heat rejection radiation from engine at Prime Power Maximum Standby Power Heat rejection to coolant at Prime Power Maximum Standby Power Fan power consumption	m³/min / cfm m³/min / cfm kPa / In wc kW / BTU/mir kW / BTU/mir °C / °F °C / °F kPa / In wc m³/min / cfm m³/min / cfm kW / BTU/mir	234 / 13300 560 / 1040 605 / 1120 5 / 20.1 46.7 / 1648 54.8 / 1936 17 / 967 20 / 1140 122 / 6940	21.1 / 745 22.5 / 795 5 / 20.1 229 / 13030 260 / 14800 540 / 1000 575 / 1067 7 / 28.1 57.8 / 2040 63.1 / 2230 19 / 1081 22 / 1250 142 / 8080 157 / 8930 11 / 15

Power Standards

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. The technical data applies to an engine without cooling fan and operating on a fuel with calorific value of 42.7 MJ /kg (18360 BTU/lb) and a density of 0.84 kg/liter (7.01 lb/US gal), also where this involves a deviation from the standards. Power output guaranteed within 0 to +2% att rated ambient conditions at delivery. Ratings are based on ISO 8528.

Engine speed governing in accordance with ISO 3046/IV, class A1 and ISO 8528-5 (G3 with electronic speed governor)

Exhaust emissions.

The engine exhaust emissions complies with EPA, CARB and TA-luft regulations.

Rating Guidelines

PRIME POWER rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability is available for this rating.

CONTINUOUS STANDBY POWER rating corresponds to ISO Power. It is applicable for supplying standby electrical power at variable load for an unlimited number of hours in the event of normal utility power failure. A 10 % overload capability is available for this rating.

MAXIMUM STANDBY POWER rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating.



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