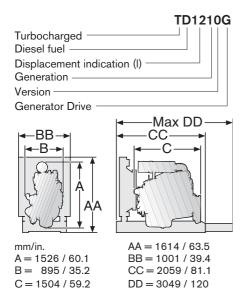
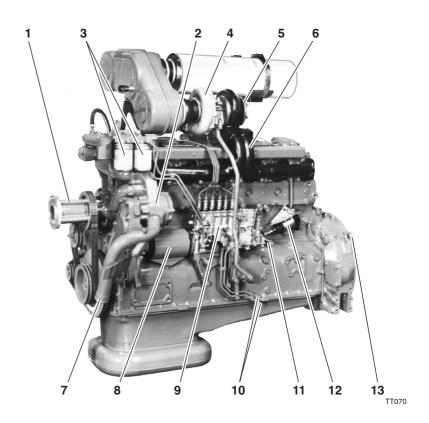
TD1210G

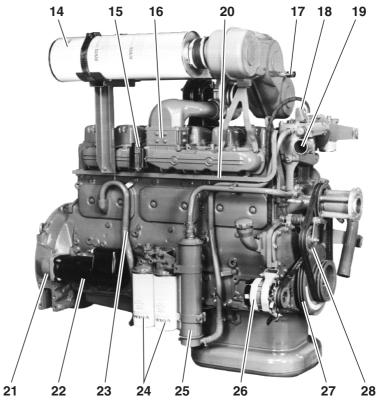
Gen Set Engine - Gen Pac



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







TTOT

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

Canaral					
General In-line four-stroke diesel engine with direct injection Number of cylinders 6					
In-line four-stroke diesel engine with direct injection Turbocharged				Number of cylinders Displacement, total	11.98 liters / 731 in ³
Rotation direction, anti-clockwise viewed towards flywheel				Firing order	1-5-3-6-2-4
Trotation direction, and blockwise viewed towards hywnest				Bore	130.17 mm / 5.12 in
Dry weight, kg / lb	Engine only 1110 / 2445	Gen Pac 1395	/ 3073	Stroke	150 mm / 5.91 in
Wet weight, kg / lb	Engine only 1165 / 2566	Gen Pac 1477		Compression ratio	14.2:1
TD1210G			Speed, rpm	1500	1800
Performance			Test no.	21000676	21000677
Prime Power with fan			kW / hp	217 / 295	245 / 333
Continuous Standby Power with fan			kW / hp	239 / 325	250 / 340
Maximum Standby Power with fan			kW / hp	261 / 355	275 / 375
Mean piston speed			m/s / ft/sec	7.5 / 24.6	9.0 / 29.5
Effective mean pressure at Prime Power			MPa / psi	1.49 / 216	1.42 / 207
Max combustion pressure at Prime Power			MPa / psi	11.8 / 1710	12.1 / 1750
Total mass moment of inertia, J (mR2)			kgm ² / lbft ² 2.74 / 65.0		
Lubrication system			II. /I. / LIO	1// 0.05 / 0.000	0.00/0.400
Lubricating oil consumption at Prime Power			liter/h / US ga		0.39/ 0.103
Maximum Standby Power			liter/h / US ga		0.48/ 0.123
Oil system capacity including filters		liter / US gal			
Oil change interval / specifications VDS-2 VDS, ACEA E3			h	600 400	
ACEA E3 ACEA E2, API CD, CF, CF-4, CG-4			h h	200	
Fuel system Specific fuel consumption at					
25% of Prime Power		g/kWh / lb/hp	h 241 / 0.385	260 / 0.418	
50% of Prime Power		g/kWh / lb/hp		224 / 0.360	
75% of Prime Power			g/kWh / lb/hp		215 / 0.346
100% of Prime Power			g/kWh / lb/hp		213 / 0.345
Specific fuel consumption at					
25% of Maximum Standby Power			g/kWh / lb/hp		254 / 0.412
50% of Maximum Standby Power			g/kWh / lb/hp		221 / 0.358
75% of Maximum Standby Power			g/kWh / lb/hp		215 / 0.348
100% of Maximum Standby Power			g/kWh / lb/hp	h 209 / 0.339	216 / 0.350
Intake and exhaust system					
	Prime Power (at 27 °C)		m ³ /min / cfm	16.1 / 568	21.1 / 745
Maximum Standby Power (at 27 °C)			m ³ /min / cfm	18.5 / 653	22.5 / 795
Max allowable air intake restriction		kPa / In wc kW / BTU/min	5 / 20.1	5 / 20.1	
Heat rejection to exhaust at Prime Power Maximum Standby Power			kW / BTU/min		229 / 13030 260 / 14800
		NA/Or	°C/°F		
Exhaust gas temperature after turbine at Prime Power Maximum Standby Power		°C / °F	560 / 1040 605 / 1120	540 / 1000 575 / 1067	
Max allowable back-pressure in exhaust line		kPa / In wc	5 / 20.1	7 / 28.1	
Exhaust gas flow at Prime Power			m ³ /min / cfm	46.7 / 1648	57.8 / 2040
Maximum Standby Power			m ³ /min / cfm	54.8 / 1936	63.1 / 2230
Cooling system					
Heat rejection radiation from engine at Prime Power			kW / BTU/min		19 / 1081
Maximum Standby Power			kW / BTU/mir		22 / 1250
Heat rejection to coolant at Prime Power			kW / BTU/min		142 / 8080
Maximum Standby Power			kW / BTU/mir		157 / 8930
Fan power consumption			kW / hp	6/8	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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