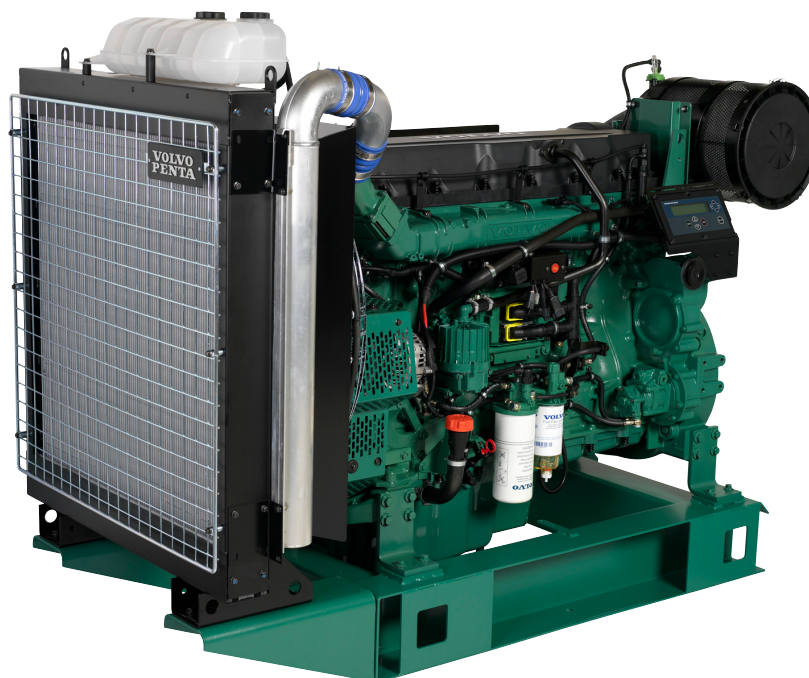


TAD1341/1342/1343GE-B

308/343/366 kW (419/466/498 hp) at 1500 rpm, 335/395/406 kW (456/537/552 hp) at 1800 rpm

According to ISO 3046



TAD1341GE-B, TAD1342GE-B and TAD1343GE-B are powerful, reliable and economical Generating Set Diesel Engines built on the dependable in-line six design.

Durability and low noise

Designed for easiest, fastest and most economical installation. Field tested to ensure highest standard of durability and long life. Well-balanced to produce smooth and vibration-free operation with low noise level.

To maintain a controlled working temperature in cylinders and combustion chambers, the engine is equipped with piston cooling. The engine is also fitted with replaceable cylinder liners and valve seats/guides to ensure maximum durability and service life of the engine.

Low exhaust emission

The state of the art, high-tech injection and charging system with low internal losses contributes to excellent combustion and low fuel consumption.

The TAD1341GE-B, TAD1342GE-B and TAD1343GE-B are emission certified. An electronically controlled viscous fan drive is available giving substantially lower noise and fuel consumption.

Easy service and maintenance

Easily accessible service and maintenance points contribute to the ease of service of the engine.

- Excellent load acceptance
- Highly efficient cooling system
- RoHS2 compliant
- Dual Speed 1500/1800 rpm
- EMS 2.4
- EU Stage 2 emission certified
- Wide range of optional equipment including visco fan

50 Hz/1500 rpm

	Prime power			Standby power			Prime power			Standby power			Gen.eff. %
	kWm	kWe	kVa	kWm	kWe	kVa	kWe	kWe	kVa	kWm	kWe	kVa	
TAD1341GE-B	275	256	320	302	281	351	294	273	342	324	301	377	93
TAD1342GE-B	303	282	352	333	310	387	345	321	401	377	351	438	93
TAD1343GE-B	325	302	378	356	331	414	353	328	410	388	361	451	93

60 Hz/1800 rpm

TAD1341/I342/I343GE-B

308/343/366 kW (419/466/498 hp) at 1500 rpm, 335/395/406 kW (456/537/552 hp) at 1800 rpm

According to ISO 3046

Technical data

Configuration and no. of cylinders in-line 6
Method of operation 4-stroke
Bore, mm (in.) 131 (5.16)
Stroke, mm (in.) 158 (6.22)
Displacement, l (in³) 12.78 (780)
Compression ratio 18.1:1
Wet weight, kg (lb) 1325 (2921)
Wet weight with Gen Pac, kg (lb) 1790 (3946)

	TD1341GE-B		TD1342GE-B		TD1343GE-B	
	1500 rpm	1800 rpm	1500 rpm	1800 rpm	1500 rpm	1800 rpm
Prime Power, kW (hp)	275 (374)	294 (400)	303 (412)	345 (469)	325 (442)	353 (480)
Standby Power, kW (hp)	302 (411)	324 (441)	333 (453)	377 (513)	356 (484)	388 (528)

Fuel consumption

Prime Power, g/kWh (lb/hph)

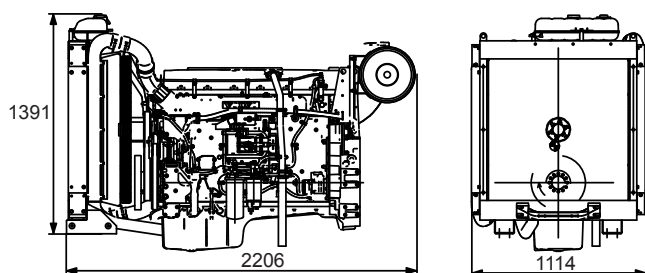
	TD1341GE-B		TD1342GE-B		TD1343GE-B	
	1500 rpm	1800 rpm	1500 rpm	1800 rpm	1500 rpm	1800 rpm
25%	235 (0.381)	254 (0.411)	228 (0.369)	240 (0.389)	224 (0.363)	239 (0.387)
50%	202 (0.327)	210 (0.341)	199 (0.322)	206 (0.334)	198 (0.320)	205 (0.333)
75%	194 (0.314)	201 (0.327)	193 (0.312)	200 (0.325)	193 (0.312)	200 (0.325)
100%	192 (0.312)	201 (0.326)	192 (0.311)	204 (0.331)	192 (0.312)	205 (0.332)

Standby Power, g/kWh (lb/hph)

	TD1341GE-B		TD1342GE-B		TD1343GE-B	
	1500 rpm	1800 rpm	1500 rpm	1800 rpm	1500 rpm	1800 rpm
25%	228 (0.369)	245 (0.396)	222 (0.360)	233 (0.378)	219 (0.355)	232 (0.376)
50%	199 (0.323)	207 (0.335)	196 (0.318)	203 (0.329)	196 (0.317)	202 (0.328)
75%	193 (0.314)	201 (0.326)	193 (0.312)	202 (0.327)	193 (0.313)	202 (0.327)
100%	194 (0.314)	204 (0.331)	193 (0.313)	207 (0.335)	195 (0.316)	207 (0.336)

Dimensions

Not for installation. Dimensions in mm.



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 for governing purpose is available for this rating.

STAND-BY POWER rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying stand-by 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.

1 kW = 1 hp x 1.36
1 hp = 1 kW x 0.7355

Technical description

Engine and block

- Optimized cast iron cylinder block with optimum distribution of forces without the block being unnecessary heavy.
- Wet, replaceable cylinder liners
- Piston cooling for low piston temperature and reduced ring temperature
- Tapered connecting rods for increased piston lifetime
- Crankshaft induction hardened bearing surfaces and fillets with seven main bearings for moderate load on main and high-end bearings
- Case hardened and Nitrocarburized transmission gears for heavy duty operation
- Keystone top compression rings for long service life
- Viscous type crankshaft vibration damper to withstand single bearing alternator torsional vibrations
- Replaceable valve guides and valve seats
- Over head camshaft and four valves per cylinder

Lubrication system

- Full flow oil cooler
- Full flow disposable spin-on oil filters, for extra high filtration
- The lubricating oil level can be measured during operation
- Gear type lubricating oil pump, gear driven by the transmission

Fuel system

- Electronic high pressure unit injectors
- Fuel prefilter with water separator and water-in-fuel indicator / alarm
- Gear driven low-pressure fuel pump
- Fine fuel filter with manual feed pump and fuel pressure switch

Cooling system

- Efficient cooling with accurate coolant control through a water distribution duct in the cylinder block. Reliable sleeve thermostat with minimum pressure drop.
- Belt driven coolant pump with high degree of efficiency
- Electronically controlled viscous fan drive provides lower noise and fuel consumption (optional).

Turbo charger

- Efficient and reliable turbo charger
- Electronically controlled Waste-gate
- Extra oil filter for the turbo charger

Electrical system

- Engine Management System 2 (EMS 2.4), an electronically controlled processing system which optimizes engine performance. It also includes advanced facilities for diagnostics and fault tracing.
- The instruments and controls connect to the engine via the CAN SAE J1939 interface, either through the Control Interface Module (CIM) or the Digital Control Unit (DCU). The CIM converts the digital CAN bus signal to an analog signal, making it possible to connect a variety of instruments. The DCU2 is a control panel with display, engine control, monitoring, alarm, parameter setting and diagnostic functions. The DCU2 also presents error codes in clear text.
- Sensors for oil pressure, oil temp, boost pressure, boost temp, coolant-temp, fuel temp, water in fuel, fuel pressure and two speed sensors.

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% at rated ambient conditions at delivery. Ratings are based on ISO 8528. Engine speed governing in accordance with ISO 8528-5.

Please contact your local Volvo Penta dealer for further information. Please note that products illustrated may differ from production models. Not all models and accessories are available in all markets, and standard equipment may vary between different markets. Every effort has been made to ensure that facts and figures are correct at the time of publication. However, Volvo Penta reserves the right to make changes without prior notice at any time.

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