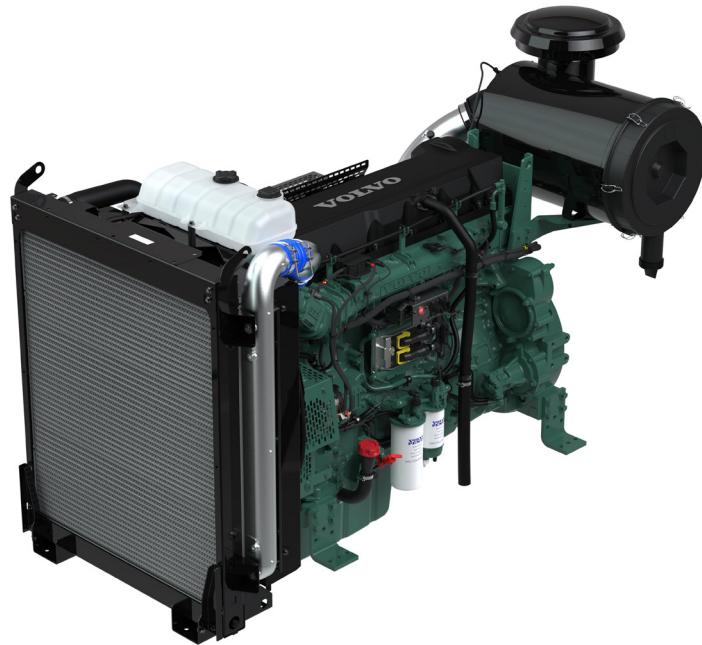


TAD1346GE

12.78 liter, in-line 6 cylinder



TAD1346GE is 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 emission levels for TAD1346GE equal to EU Stage 2. 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
- Wide range of optional equipment including visco fan

50 Hz / 1500 rpm

60 Hz / 1800 rpm

| | Continuous power | | | Prime power | | | Standby power | | | Continuous power | | | Prime power | | | Standby power | | |
|-----------|------------------|-----|-----|-------------|-----|-----|---------------|-----|-----|------------------|-----|-----|-------------|-----|-----|---------------|-----|-----|
| | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA |
| TAD1346GE | 320 | 301 | 377 | 427 | 402 | 502 | 470 | 442 | 552 | 327 | 307 | 384 | 436 | 409 | 512 | 479 | 450 | 563 |

Generator efficiency (typical): 94%

kWm = kiloWatt mechanical, net with fan*; kWe = kiloWatt electrical = kWm x Generator eff.; kVA = kiloVoltAmpere calculations based on a 0.8 power factor = kWe / 0.8

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

*) According to technical data



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 | 17.8:1 |
| Wet weight, kg (lb) | 1243 (2470) |
| Wet weight with Gen Pac, kg (lb) | 1455 (3208) |

Performance

| | 1500 rpm | 1800 rpm |
|------------------------|-----------|-----------|
| Prime Power, kW (hp) | 427 (581) | 436 (593) |
| Standby Power, kW (hp) | 470 (639) | 479 (651) |

Fuel consumption

Prime Power, g/kWh (lb/hph)

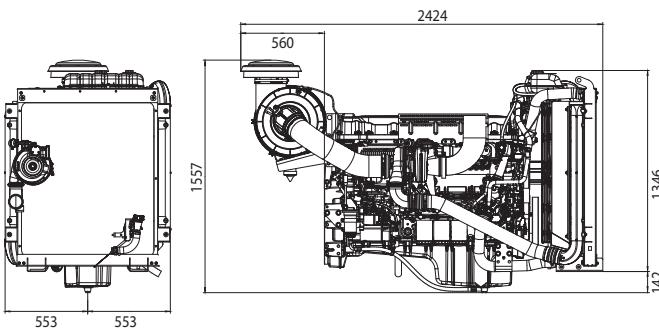
| | 1500 rpm | 1800 rpm |
|------|-------------|-------------|
| 25% | 213 (0.345) | 224 (0.363) |
| 50% | 199 (0.323) | 201 (0.326) |
| 75% | 198 (0.320) | 200 (0.323) |
| 100% | 191 (0.310) | 196 (0.318) |

Standby Power, g/kWh (lb/hph)

| | 1500 rpm | 1800 rpm |
|------|-------------|-------------|
| 25% | 210 (0.341) | 221 (0.359) |
| 50% | 198 (0.321) | 202 (0.328) |
| 75% | 197 (0.319) | 201 (0.326) |
| 100% | 191 (0.309) | 196 (0.318) |

Dimensions

Not for installation. Dimensions in mm.



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.

Rating guidelines

CONTINUOUS POWER is defined as being the maximum power which the generating set is capable of delivering continuously while supplying a constant electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer.

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.

AB Volvo Penta

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www.volopenta.com

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 G3.

Please contact your local Volvo Penta dealer for further information.

